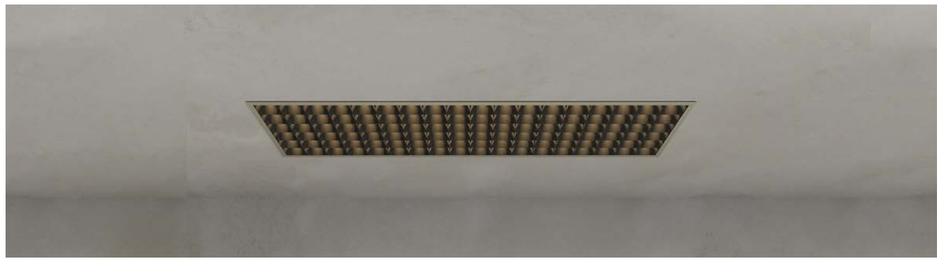
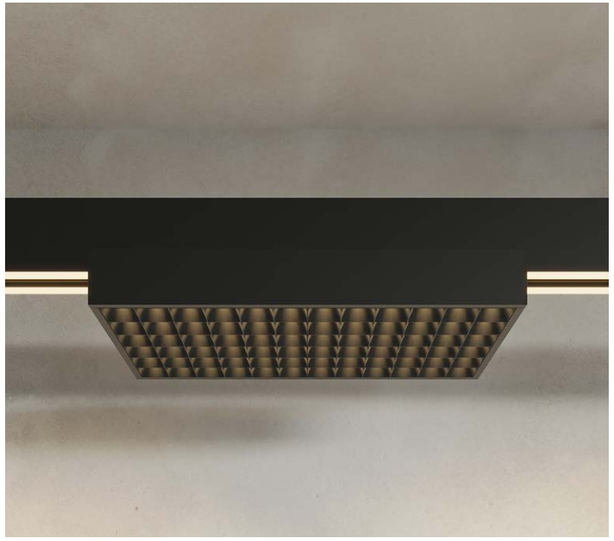
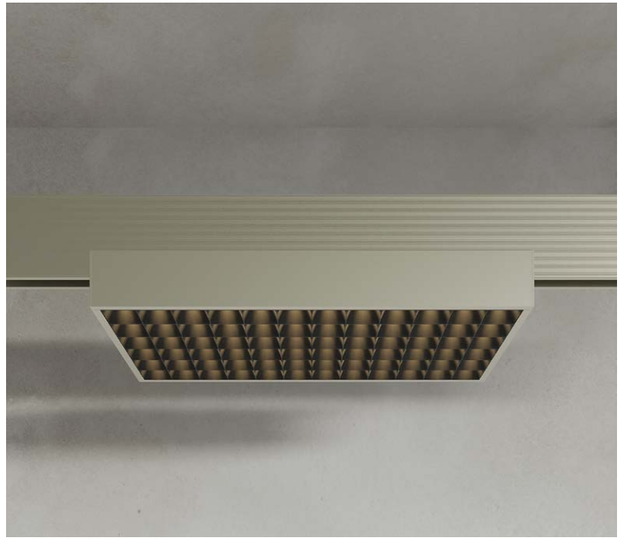
mn sistema marionanni

sistema di illuminazione per interni IP40 a luce diretta realizzato con corpo in alluminio verniciato e trappola di luce nero opaco.
modelli:
mn soffitto h32mm alimentatore escluso,
mn soffitto h45mm alimentatore integrato regolabile on/off, dali o casambi,
mn incasso h26mm alimentatore escluso,
mn incasso h26mm alimentatore remoto incluso regolabile on/off, dali o casambi,
mn scomparsa totale h32 alimentatore escluso,
mn scomparsa totale h32 alimentatore remoto incluso regolabile on/off, dali o casambi,
dimensioni: 130x130mm, 130x250mm, 130x370mm, 250x250mm, , 30x370mm, 30x730mm, 30x1450mm
mn A sistema h32mm 48Vdc regolabile on/off o casambi
dimensioni: 130x130mm, 130x250mm, 130x370mm, 30x370mm, 30x730mm
mn binario VbB h32mm alimentatore integrato regolabile on/off, dali o casambi
dimensioni: 130x130mm, 130x250mm, 130x370mm, 30x370mm, 30x730mm, 30x1450mm
mn traccia sistema h32mm 24Vdc regolabile pwm o casambi
dimensioni: 130x130mm, 130x250mm, 30x370mm, 30x730mm
modelli matrice cablati con lampadina mn sorgente elettronica modulare 130x130mm ra97 2 step macadam fino a 13W 1539lm
dimensione 130x130mm un modulo lampadina, dimensione 130x250mm due moduli lampadina, 130x370mm tre moduli lampadina, 250x250mm quattro moduli lampadina.
modelli lineari cablati con lampadina mn sorgente elettronica modulare 30x370mm ra97 2 step macadam fino a 9,5W 1032lm
dimensione 30x370mm un modulo lampadina, dimensione 30x730mm due moduli lampadina, 30x1450mm quattro moduli lampadina
sorgente elettronica disponibile a 2700K, 3000K o 3500K
il sistema ottico 44° garantisce ugr<10 e lm<1000 cd/m² per angolo di osservazione>65°, il sistema ottico 70° garantisce ugr<19 conforme alla norma uni en 12464-1.
finiture: argento hacca con adattatore a binario nero; nero55 con adattatore a binario nero; my bianco con adattatore a binario bianco, trappola di luce nero opaco.
mn sistema è gestibile da device mobile tramite app Viascenario, il sistema di controllo wireless d'illuminazione Viabizzuno

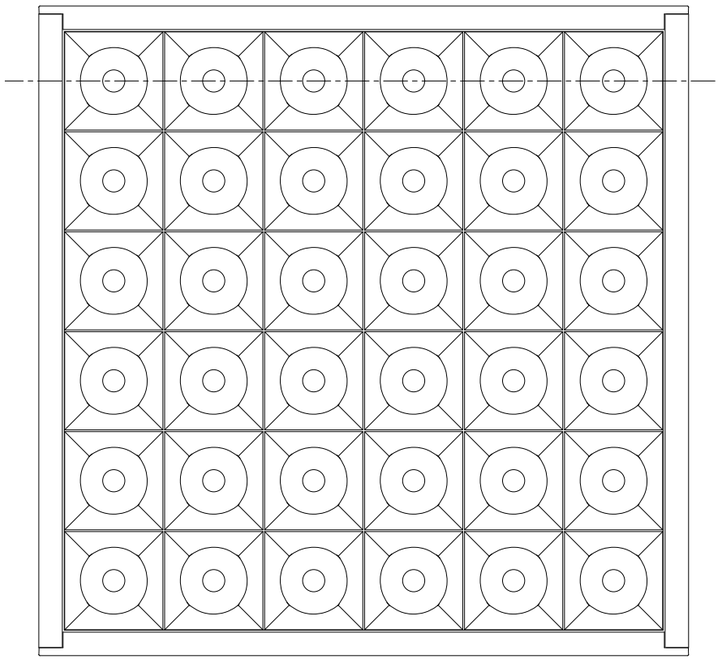
IP40 indoor use direct light lighting system made with painted aluminum body and matte black light trap.
versions:
mn soffitto h32mm power supply excluded,
mn soffitto h45mm built-in power supply dimmer on/off, dali or casambi,
mn incasso h26mm power supply excluded,
mn incasso h26mm remote power supply included dimmer on/off, dali or casambi,
mn scomparsa totale h32 power supply excluded,
mn scomparsa totale h32 remote power supply included dimmer on/off, dali or casambi,
dimensions: 130x130mm, 130x250mm, 130x370mm, 250x250mm, 30x370mm, 30x730mm, 30x1450mm
mn A sistema h32mm 48Vdc dimmer on/off or casambi
dimensioni: 130x130mm, 130x250mm, 130x370mm, 30x370mm, 30x730mm
mn binario VbB h32mm built-in power supply dimmer on/off or casambi
dimensions: 130x130mm, 130x250mm, 130x370mm, 30x370mm, 30x730mm, 30x1450mm
mn traccia sistema h32mm 24Vdc dimmer pwm or casambi
dimensions: 130x130mm, 130x250mm, 30x370mm, 30x730mm
matrix models wired with mn bulb modular electronic source 130x130mm ra97 2 step macadam until 13W 1539lm
dimension 130x130mm one light bulb module, dimension 130x250mm two light bulb modules, 130x370 three light bulb modules, 250x250mm four light bulb modules.
linear models wired mn bulb modular electronic source 30x370mm ra97 2 step macadam until 9,5W 1032lm
dimension 30x370mm one light bulb module, dimension 30x730mm two light bulb modules, 30x1450 four light bulb modules.
eletronic source available at 2700K, 3000K o 3500K
the 44° optical system guarantees ugr<10 and lm<1000 cd/m² for viewing angle>65°, the 70° optical system guarantees ugr<19 complying with uni en 12464-1.
finishes: silver hacca, white V, my white, black55, matte black light trap
mn sistema can be managed from a mobile device via Viascenario app, the Viabizzuno wireless lighting control system.





A



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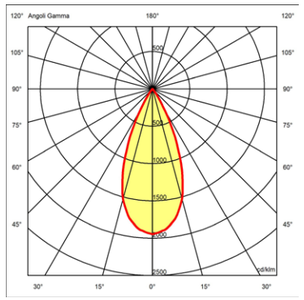
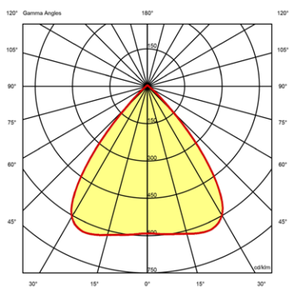
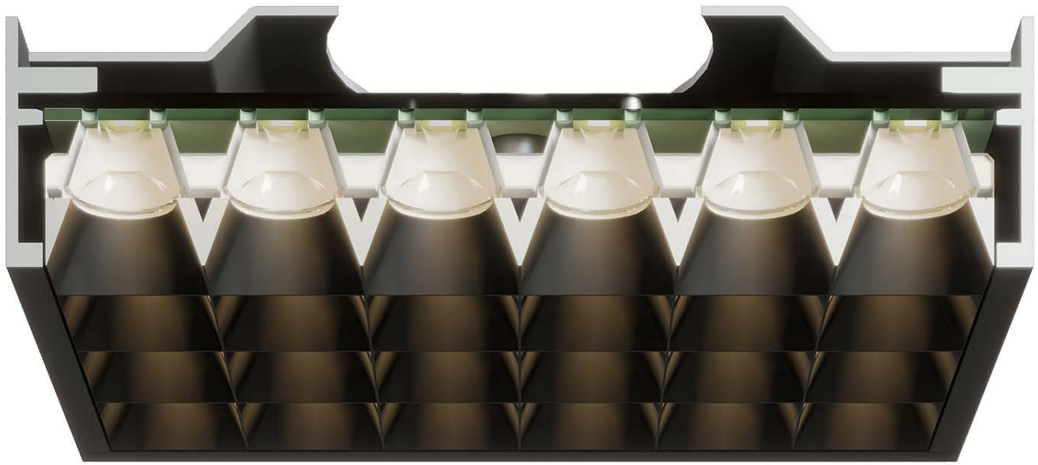
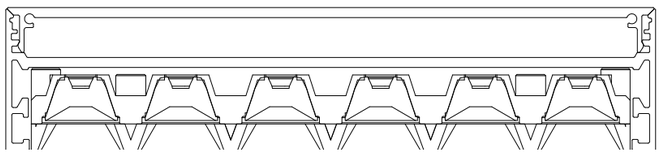


44°

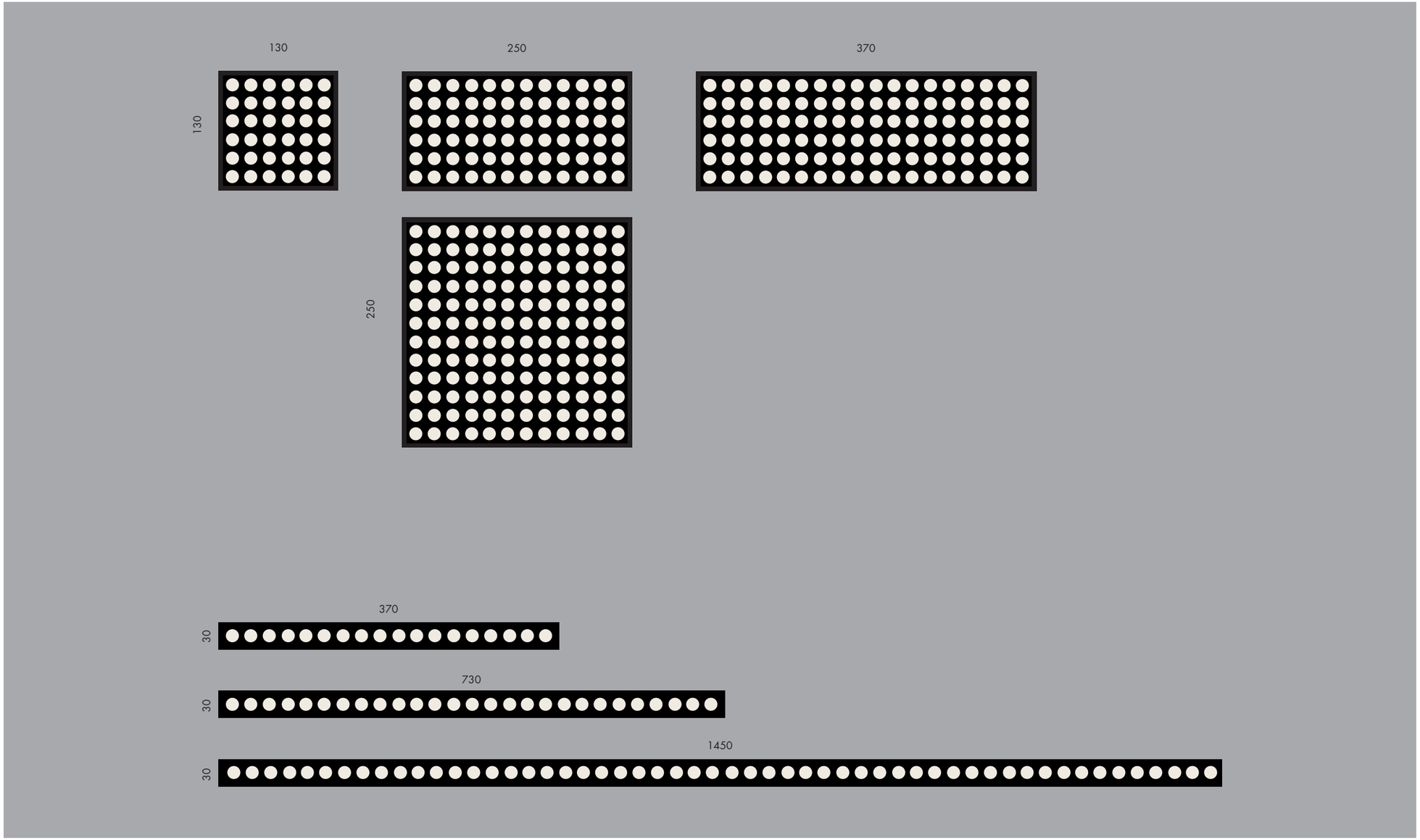


70°



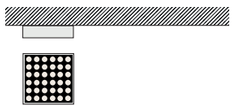
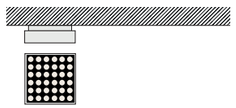
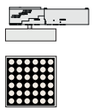
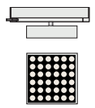
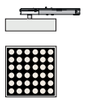
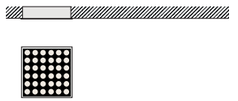
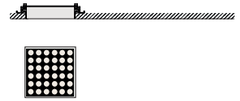
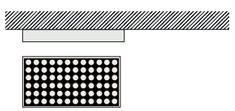
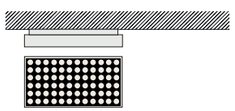
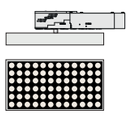
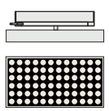
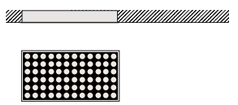
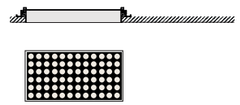
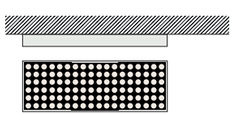
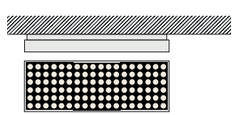
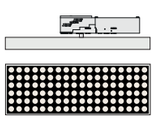
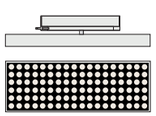
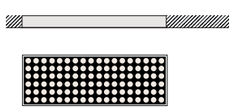
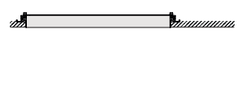
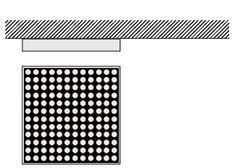
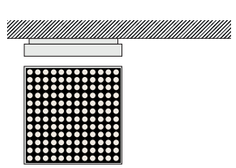
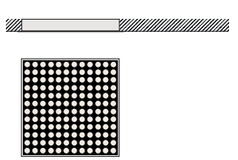
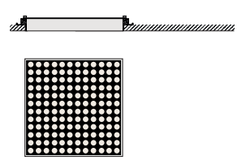
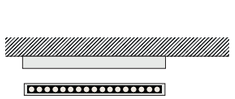
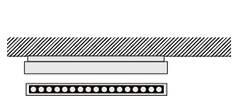
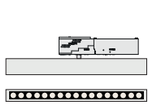
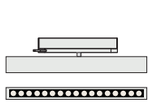
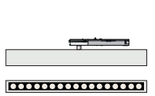
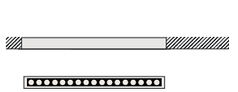
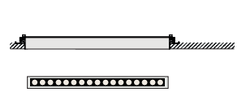
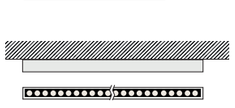
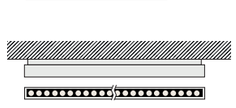
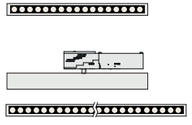
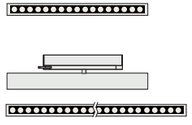
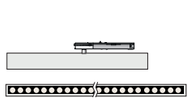
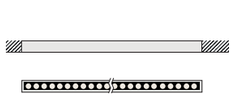
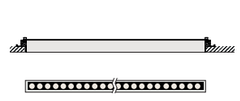


sezione A - A


130
250
370
130
250
370
30
730
30
1450
30

luce diretta

direct light

mn soffitto	mn soffitto alimentatore incluso	mn adattatore A1	mn adattatore VbB	mn adattatore traccia sistema	mn incasso	mn scomparsa totale
						
						
						
						
						
						
						

ugr

il Valore UGR (unified glare rating – indice unificato di abbagliamento) indica il liVellodi abbagliamento generato da un sistema di illuminazione.

H= distanza tra l'altezza degli occhi dell'osserVatore seduto (1,2 m) e il piano degli apparecchi di illuminazione= 2m.

x= larghezza del locale= 4H= 8m

y= lunghezza del locale= 8H= 16m

s= interasse degli apparecchi d'illuminazione= 0,25H= 0,5m

fattori di riflessione:

ρ soffitto = 70%

ρ parete = 50%

ρ paVimento = 20%

definito dalla CIE (commissione internazionale per l'illuminazione), dedicato alla Verifica dell'abbagliamento generato dalla luce artificiale e che può assumere i Valori 10, 13, 16, 19, 22, 25, 28: i Valori più bassi indicano un liVello di abbagliamento ben controllato.

la norma EN12464-1 definisce i Valori massimi per questo parametro distinti a seconda delle tipologie di area ed attiVità laVoratiVa riportate in una tabella dedicata. tipicamente per le aree adibite ad uffici ***l'UGR deVe essere pari o inferiore a 19****.*

il parametro è Valutato secondo un calcolo matematico sVolto solitamente da software dedicati, in funzione di una specifica posizione dell'osserVatore nello spazio e del suo orientamento in una determinata direzione: la formula matematica Valuta principalmente la luminanza prodotta da ogni singolo apparecchio di illuminazione che rientra nel campo VisiVo dell'osserVatore, unitamente alla luminanza dello sfondo.

i costruttori di apparecchi di illuminazione forniscono un'analisi tabulare dell'UGR secondo posizioni predefinite, indipendenti da uno specifico progetto illuminotecnico. l'utilizzo di queste tabelle presuppone determinate condizioni dell'impianto, quali:
1. una stanza a pianta rettangolare,
2. apparecchi dello stesso tipo
3. apparecchi installati alla stessa altezza rispetto al paVimento.
4. indici di riflessione delle superfici predefiniti indicati in tabella
5. dimensioni della stanza predefinite secondo multipli del parametro H che a sua Volta indica la distanza Verticale tra gli apparecchi di illuminazione e l'altezza dell'occhio umano di un operatore seduto posizionata per conVenzione a 1,2m dal paVimento.

per semplicità in questo documento Vengono Valutate solo le dimensioni x=2H y=4H e x=4H y=8H.
al contrario, nell'ambito del progetto di un impianto di illuminazione, se le posizioni delle postazioni di laVoro sono definite è opportuno calcolare e Verificare l'UGR nei punti specifici.

the unified glare rating (UGR) Value indicates the leVel of glare generated by a lighting system.

H = distance between the eye leVel of a seated obserVer (1.2 m) and the plane of the lighting fixtures = 2 m.

x = room width = 4H = 8 m

y = room length = 8H = 16 m

s = spacing of lighting fixtures = 0.25H = 0.5 m

reflection factors:

ρ ceiling = 70%

ρ wall = 50%

ρ floor = 20%

it is defined by the CIE (international commission on illumination), and dedicated to Verifying the glare generated by artificial light, which can take the Values 10, 13, 16, 19, 22, 25, and 28: the lower Values indicate a well-controlled leVel of glare.

the standard EN12464-1 defines the maximum Values for this parameter depending on the type of area and work actiVity listed in a dedicated table. for office areas, **the UGR must typically be equal to or less than 19**.

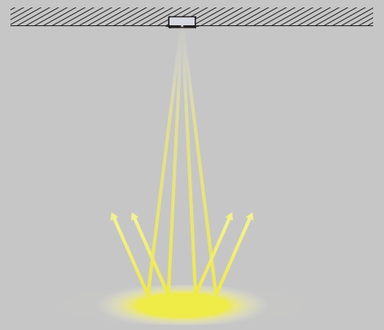
this parameter is eValuated according to a mathematical calculation that is usually performed by dedicated software, according to the specific position of an obserVer in the space and his/her orientation in a certain direction: the mathematical formula mainly eValuates the luminance produced by each indiVidual lighting fixture that falls within the obserVer's field of View, together with the luminance of the background.

manufacturers of lighting fixtures proVide a tabular analysis of the UGR according to predetermined positions, independent from a specific lighting design.
the use of these tables assumes certain conditions of the installation, such as:
1. a room with a rectangular floor plan;
2. lighting fixtures of the same type;
3. lighting fixtures installed at the same height aboVe the floor;
4. predetermined surface reflection indices shown in the table;
5. predetermined room sizes according to multiples of the parameter H, which in turn indicates the Vertical distance between the lighting fixtures and the eye leVel of a seated operator positioned by conVention at 1.2 m from the floor.
for the sake of simplicity, only the dimensions x=2H y=4H and x=4H y=8H are eValuated in this document. conVersely, in the context of the design of a lighting installation, if the locations of the workstations are defined, it is adVisable to calculate and Verify the UGR at specific points.

flusso luminoso
luminous flux

flusso luminoso: quantità di luce emessa da una sorgente luminosa.

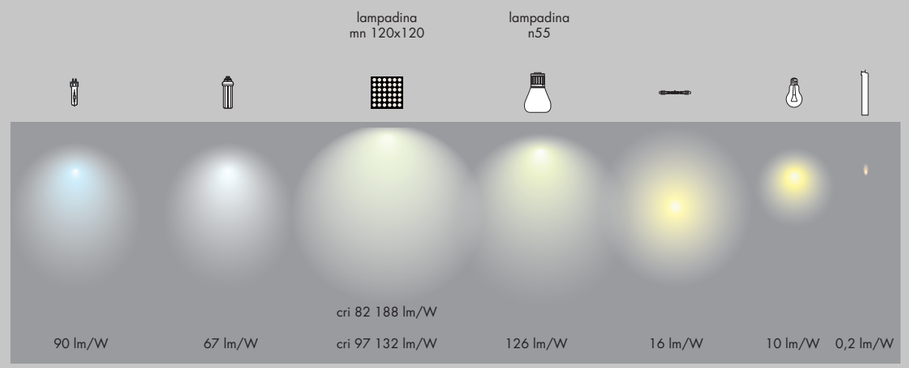
luminous flux: amount of light emitted by a light source.



efficienza luminosa
luminous efficiency

efficienza luminosa, unità di misura lumen per Watt, (lm/W). l'efficienza luminosa indica quanta della potenza elettrica assorbita Viene trasformata in luce.

luminous efficiency, unit of measurement lumen per Watt, (lm / W). the luminous efficiency indicates how much of the absorbed electrical power is transformed into light.



luminanza
luminance

luminanza: intensità luminosa emessa in una determinata direzione da una superficie luminosa o illuminata (sorgente secondaria di luce). in altri termini esprime l'effetto di luminosità che una superficie produce sull'occhio umano, sia essa sorgente primaria (lampada o apparecchio di illuminazione) o secondaria (piano di un taVolo che riflette la luce).

la distribuzione della luminanza nel campo VisiVo determina appunto il liVello di adattamento degli occhi: una distribuzione delle luminanze ben bilanciata aumenta la nitidezza della Visione, la sensibilità al contrasto e l'efficienza delle funzioni oculari riducendone l'affaticamento.

occorre inVece eVitare luminanze troppo eleVate e contrasti di luminanza eccessiVi. all'opposto, luminanze e contrasti troppo bassi determinano un ambiente di laVoro poco stimolante.

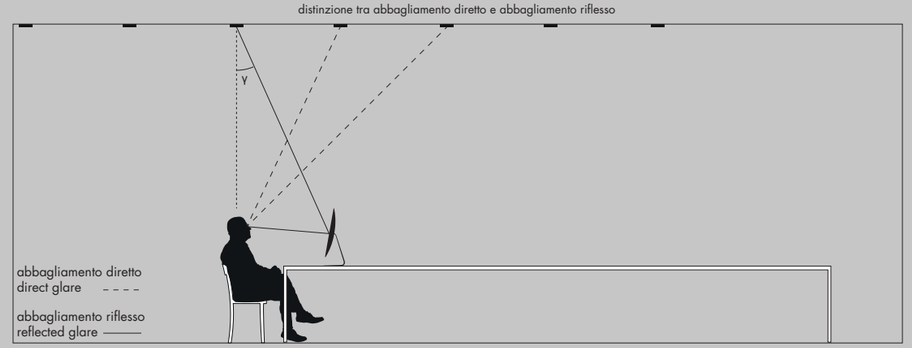
simbolo: L
unità di misura: candela al metro quadrato (cd/m2).

luminance: ratio of luminous intensity and appearant emitting area.
the source of luminance can be an emitting surface or
a surface reflecting incident light.
luminance is a measure of how much a surface seems brilliant to the human eye.

a well balanced luminance distribution inside the field of View increases the Visual performance and reduces fatigue.
on the other hand, high luminance leVels and excessiVe luminance contrasts can produce glare and discomfort.

symbol: L unit of measure: candle per square meter cd/m2

distinzione tra abbagliamento diretto e abbagliamento riflesso



certificazione UNI EN

12464-1:2021

la norma UNI EN 12464-1 ha come obiettiVo definire i requisiti illuminotecnici per i posti di laVoro in interni, al fine di garantire il comfort e le prestazioni VisiVe di persone aVenti normale capacità oftalmica.

sono considerati tutti i compiti VisiVi abituali, suddiVisi per tipologie di attiVità, inclusi quelli che comportano l'utilizzo di Videoterminali.
i requisiti sono stati definiti sulla base di tre principali necessità dell'uomo:
1.comfort VisiVo, oVVero di benessere del laVoratore, che indirettamente contribuisce anche ad una maggiore qualità e produttiVità

2.prestazioni VisiVe, tenendo in considerazione anche le diVerse possibili circostanze e la durata dell'attiVità laVoratiVa

3.la sicurezza
la norma Valuta la qualità della luce sia naturale che artificiale secondo i seguenti parametri:

3.1.distribuzione della luminanza
3.2.illuminamento
3.3.direzionalità della luce
3.4.Variabilità della luce
3.5.resa del colore e colore apparente della luce
3.6.abbagliamento
3.7.sfarfallamento ed effetto stroboscopico
per il calcolo delle luminanze la norma raccomanda i seguenti Valori sulle principali superfici:

soffitto:
da 0.7 a 0.9;
pareti:
da 0.5 a 0.8;
piani di laVoro:
da 0.2 a 0.7;
paVimento:
da 0.2 a 0.4.

l'illuminamento e la sua distribuzione hanno un importante impatto sulla rapidità, sicurezza e comfort con cui la persona sVolge il compito VisiVo. per questo la norma indica di Valutare l'illuminamento medio (Em), misurato in lux (lx), e la sua uniformità U0 sulle seguenti superfici:

3.2.1. superficie del compito VisiVo. i liVelli di illuminamento medio e uniformità sono specificati per ogni tipologia di area e di attiVità, a seconda delle esigenze, tramite una apposita tabella. per gli uffici con laVoro al Videoterminale la norma indica Em≥500lux e U0≥0.60
3.2.2. area circostante: l'illuminamento può essere più basso di quello preVisto per l'area del compito ma non deVe essere minore dei Valori indicati di seguito:
compito (Em)
≥ 750lx
500lx
300lx
200lx
< 200lx zone circostanti (Em)
500lx
300lx
200lx
150lx
stesso Em del compito VisiVo
uniformità richiesta: U0 ≥0.40

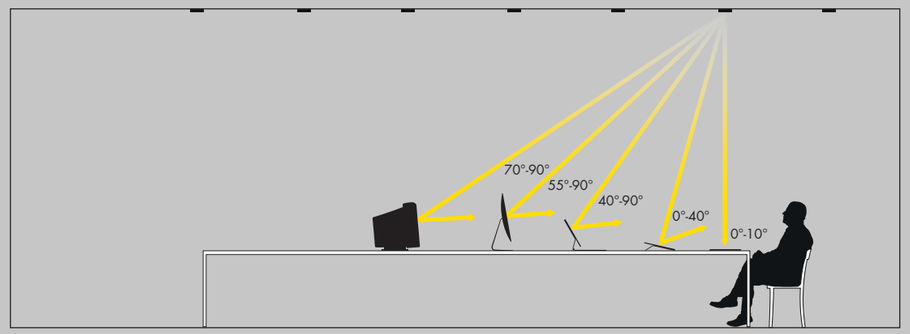
3.2.3. sfondo: Viene indicato un illuminamento medio Em pari o superiore ad 1/3 dell'illuminamento nella rispettiVa area circostante. l'uniformità richiesta è sempre U0>=0.40

inoltre la norma chiede di rispettare i seguenti Vincoli più generici:
• per zone occupate continuatiVamente l'illuminamento non deVe essere minore di 200lx.
• le superfici delle pareti deVono aVere sempre illuminamento Em≥50lx e U0≥0,10
• le superfici dei soffitti deVono aVere sempre illuminamento Em≥30lx e U0≥0,10
la norma inoltre richiede che per illuminamento medio si intenda sempre quello mantenuto, oVVero l'illuminamento che deVe essere garantito dall'impianto di illuminazione al netto della minore efficienza Valutata in funzione

a.dell'inVecchiamento degli apparecchi, della sorgente luminosa e delle componenti ottiche,

b.della tipologia di area, che a sua Volta permette di definire la quantità e la rapidità con cui la polVere si accumula sulle superfici dell'ambiente e sugli apparecchi luminosi,

c.della frequenza di manutenzione e pulizia degli apparecchi, definiti dal piano di manutenzione dell'impianto queste informazioni contribuiscono al calcolo del fattore di manutenzione MF, parametro con Valore compreso tra 0 e 1 che esprime proprio il calo di prestazioni dell'impianto dopo un determinato periodo rispetto alle prestazioni iniziali, relatiVe al periodo immediatamente successiVo all'installazione.
la direzionalità della luce permette di sottolineare i dettagli all'interno del compito VisiVo, rendendoli più Visibili ed allo stesso tempo facilitando il laVoro. questo tipo di luce inoltre permette di produrre ombre che se opportunamente studiate possono aiutare ad aumentare la Visibilità degli oggetti e della loro profondità. allo stesso tempo la norma richiama l'attenzione sui possibili rischi: se non opportunamente progettate le ombre generate possono interferire con lo sVolgimento del compito VisiVo.



la Variabilità della luce nell'arco della giornata può essere ottenuta con l'integrazione di luce naturale e luce artificiale, coinVolge i diVersi parametri quali l'illuminamento delle superfici, la distribuzione delle luminanze ed il Variare della temperatura colore. seppure la norma EN12464-1 non entri nello specifico di come attuare queste Variazioni, ne riconosce comunque l'efficacia e l'utilità in termini di stimolo per l'attiVità e di benessere delle persone. a tale proposito si menziona anche il ciclo circadiano, oVVero il ritmo ed i complessi meccanismi che si attiVano all'interno del corpo umano nell'arco delle 24 ore e che subisce sicuramente l'influenza dalla luce percepita dall'indiViduo.

la qualità del compito VisiVo e le sue prestazioni dipendono in modo particolare dalla resa cromatica della luce e dal suo colore apparente.
sono due concetti diVersi, che seppure legati al colore, deVono essere considerati separatamente in quanto tra loro indipendenti.
la **resa cromatica** *della luce, indicata con il simbolo Ra indica la capacità della luce in un ambiente a rappresentare correttamente tutti i colori ed è indicata da un numero intero con Valore massimo 100 che equiVale ad una resa perfetta ed uniforme di tutti i colori, come quella della luce solare.*
questo parametro ha una diretta relazione con il comfort VisiVo e le prestazioni del compito, in quanto determina la possibilità per l'indiViduo di Vedere correttamente gli oggetti e le finiture nel loro aspetto naturale. un indice Ra basso comporta di conseguenza una alterazione della gamma del colore degli oggetti illuminati.
il Valore minimo di resa cromatica richiesto Varia in funzione delle diVerse tipologie di area e attiVità laVoratiVa ed è indicato in una tabella dedicata.

il ***colore apparente*** *di una lampada fa riferimento inVece alla tonalità della luce bianca emessa e Viene identificato tramite la temperatura colore correlata (CCT – correlated colour temperature) indicata con il simmbolo TCP. questo parametro non ha influenza diretta sulla resa cromatica.*
la scelta del colore apparente della luce dipende da fattori psicologici ed estetici e Viene scelto solitamente in funzione delle finiture dell'ambiente, della sua architettura e soprattutto dal clima: nelle aree geografiche più calde di solito Viene preferita una luce fredda e ViceVersa nelle regioni con clima più rigido Viene priVilegiata una luce calda.
per questi motiVi la temperatura colore solitamente non Viene specificata in funzione della tipologia di attiVità laVoratiVa, fatta eccezione per alcune aree particolari quali per esempio i laboratori farmaceutici per l'ispezione del colore, per i quali Viene richiesta una temperatura tra i 6000K ed i 6500K.

*l'****abbagliamento*** *è la sensazione VisiVa prodotta da superfici di eleVata luminanza all'interno del campo VisiVo e Viene distinto in due tipologie: l'abbagliamento molesto e l'abbagliamento debilitante.*
se non controllato l'abbagliamento può causare errori, fatica, incidenti e talVolta danni alla Vista.

l'abbagliamento molesto è proVocato principalmente dalle sorgenti luminose, cioè dagli apparecchi di illuminazione o dalle finestre. è quello che più comunemente si riscontra negli interni e comporta una sensazione di disagio continuatiVo.

l'abbagliamento debilitante è generato inVece da luminanze eleVate ed improVVise e comporta un peggioramento istantaneo delle funzioni VisiVe. impedisce la sensibilità al contrasto dell'occhio e quindi la Visione. nell'ambito della luce per ambienti di laVoro in interni il Verificarsi di questa tipologia è più raro se sono rispettati i Vincoli per eVitare l'abbagliamento molesto.

per poter controllare il fenomeno di abbagliamento molesto sin dalla fase della progettazione della luce si utilizza il parametro ***UGR****.*

la norma disciplina anche l'abbagliamento riflesso, che insieme al fenomeno delle riflessioni Velate deVe essere tenuto sotto controllo con le seguenti misure:
• disposizione delle postazioni di laVoro rispetto agli apparecchi, alle finestre e ai lucernari
• Verifica delle finiture che interVengono nel compito VisiVo, affinché siano opache o comunque poco riflettenti
• limitazione della luminanza tramite la selezione di apparecchi di illuminazione idonei e sistemi di oscuramento di finestre e lucernari. in particolar modo le riflessioni su attrezzature e macchinari dotati di monitor (denominati DSE: display screen equipment) e le riflessioni sulla tastiera possono causare disabilità e abbagliamento molesto in alcune circostanze. per questo la norma indica di selezionare, localizzare e disporre gli apparecchi per eVitare riflessioni con eleVata luminosità considerando come riferimento un monitor Verticale o al più inclinato di 15°: Vengono quindi indicati i limiti di luminanza media, Valutati per angoli di eleVazione di 65° ed oltre, in rapporto alla Verticale, in funzione della qualità dello schermo (classificazione definita dalla norma ISO 9241-307):
qualità dello schermo
buona *bassa*

luminanza media degli apparecchi
≤1000 cd/m² *≤200 cd/m²*

l'immagine sotto mostra come la possibilità di aVere riflessioni su uno schermo è ulteriormente aumentata dall'ormai diffuso utilizzo dei dispositiVi smart (telefoni, tablet, computer portatili) in cui l'inclinazione dello schermo non è fissata. questo rende ancora più complessa la progettazione della luce, che richiede quindi Verifiche mirate per il controllo delle luminanze.

effetti assolutamente indesiderati e dannosi sono lo sfarfallamento (flicker) e l'effetto stroboscopico, entrambe proVocati dalla pulsazione del flusso luminoso, la cui frequenza è determinata dalla tecnologia utilizzata nell'alimentatore.
il primo, è causa di distrazioni e a lungo andare anche di disturbi più graVi come le cefalee, ma non sempre è sempre Visibile e riconoscibile ad occhio nudo, seppure dannoso.
il secondo è percepito soprattutto nel momento in cui Vi sono macchinari o oggetti in moVimento, quali ad esempio un tornio, con cui si può creare una pericolosa illusione ottica tale per cui l'attrezzo può sembrare addirittura fermo, determinando così una situazione anche di estremo pericolo.

lo sfarfallamento e l'effetto stroboscopico si possono eVitare utilizzando alimentatori e dimmer di eleVata qualità, in grado di produrre pulsazioni ad alta frequenza o di utilizzare altre tecniche di regolazione dell'alimentazione, priVe di pulsazione.
la norma non specifica particolari parametri limite da rispettare. altre norme sono state dedicate alla definizione dei confini oltre i quali questi effetti diVentano nociVi o pericolosi: tra le più diffuse la norma IEEE1789 e IEC TR 61547-1.

standard UNI EN 12464-1 aims to define the lighting requirements for indoor workstations in order to ensure the comfort and Visual performance of people with normal ophthalmic capacity.

all regular Visual tasks are coVered, broken down by types of actiVities, including those inVolVing the use of Visual display units.
the requirements were defined on the basis of three main human needs:
1. Visual comfort, i.e. the well-being of the worker, which indirectly also contributes to higher quality and productiVity

2. Visual performance, also taking into account the different possible circumstances and duration of the work actiVity

3. safety
this standard eValuates the quality of both natural and artificial light according to the following parameters:

3.1. luminance distribution
3.2. illuminance
3.3. light directionality
3.4. light Variability
3.5. colour rendering and apparent colour of the light
3.6. glare
3.7. flickering and the stroboscopic effect

for the calculation of luminance, the standard recommends the following Values on the main surfaces:

ceiling
from 0.7 to 0.9;
walls
from 0.5 to 0.8;
worktops
from 0.2 to 0.7;
floor
from 0.2 to 0.4.

illuminance and its distribution haVe a significant impact on the speed, safety, and comfort with which a person performs the Visual task.
for this reason the standard recommends eValuating the aVerage illuminance (Em), measured in lux (lx), and its uniformity (U0) oVer the following surfaces:

3.2.1. surface of the Visual task.
aVerage illuminance and uniformity leVels are specified for each type of area and actiVity, according to requirements, by means of a specific table. for offices with VDT work, the standard indicates Em ≥ 500 lux and U0 ≥ 0.60
3.2.2. surrounding area: the illuminance may be lower than that specified for the task area, but must not be less than the following Values:
task (Em)
≥ 750 lx
500 lx
300 lx
200 lx
< 200 lx surrounding areas (Em)
500 lx
300 lx
200 lx
150 lx
same Em as the Visual task
required uniformity: U0 ≥ 0.40

3.2.3. background: an aVerage illuminance Em equal to or greater than 1/3 of the illuminance in the respectiVe surrounding area is indicated. the required uniformity is always U0 >= 0.40.

furthermore, the standard requires the following more general constraints to be obserVed:
• for continuously occupied areas, illuminance must be no less than 200 lx.
• wall surfaces must always haVe the following illuminance: Em ≥ 50 lx and U0 ≥ 0.10.
• ceiling surfaces must always haVe the following illuminance: Em ≥ 30 lx and U0 ≥ 0.10

the standard also requires that aVerage illuminance always means maintained illuminance, that is, the illuminance that must be guaranteed by the lighting installation net of the reduced efficiency eValuated on the basis of:

a. the ageing of the lighting fixtures, light source, and optical components;

b. the type of area, which in turn allows the amount and speed with which dust accumulates on room surfaces and lighting fixtures to be defined;

c. the frequency of maintenance and cleaning of the lighting fixtures, as defined by the lighting installation's maintenance plan.
this information is used to calculate the maintenance factor (MF), a parameter with a Value between 0 and 1 that expresses precisely the drop in performance of the lighting installation after a certain period of time compared to its initial performance, calculated in the period immediately following installation.
the directionality of the light makes it possible to emphasise the details within the Visual task, making them more Visible and at the same time facilitating the work. this type of light also allows the creation of shadows that, if properly designed, can help increase the Visibility of objects and their depth. at the same time, the standard draws attention to the possible risks: if the shadows generated are not properly designed, they can interfere with the performance of the Visual task.

the Variability of light throughout the day can be achieVed through a combination of natural and artificial light, inVolVing Various parameters such as surface illuminance, luminance distribution, and colour temperature Variation. although standard EN12464-1 does not go into detail on how to implement these changes, it does recognise their effectiVeness and usefulness in terms of stimulating people's actiVity and well-being. in this respect, it also mentions the circadian cycle, that is, the rhythm and the complex mechanisms that are actiVated within the human body oVer a 24-hour period and that is certainly influenced by the light perceiVed by the indiVidual.

the quality of the Visual task and its performance depend in particular on the colour rendering of the light and its apparent colour.
these are two different concepts, which, although linked to colour, must be considered separately as they are independent of each other.
the **colour rendering** of light, denoted by the symbol Ra, indicates the ability of light in a space to correctly reVeal all colours and is indicated by an integer with a maximum Value of 100, which is equiValent to a perfect and uniform rendering of all colours, such as that of sunlight.
this parameter has a direct relationship with Visual comfort and task performance, as it determines whether the indiVidual can correctly see objects and finishes as they appear naturally. a low Ra index consequently leads to an alteration in the colour range of illuminated objects.
the minimum required colour rendering Value Varies according to the different types of work areas and actiVities and is indicated in a dedicated table.

the **apparent colour** of a lamp refers instead to the shade of the white light it produces and is identified by the correlated colour temperature (CCT) indicated with the symbol TCP. this parameter has no direct influence on colour rendering. the choice of the apparent colour of light depends on psychological and aesthetic factors and is usually made according to the finish of the space, its architecture and, aboVe all, the climate: in warmer geographical areas a cold light is usually preferred and conVersely, in regions with a harsher climate, a warm light is preferred.
for these reasons, the colour temperature is not usually specified according to the type of work actiVity, except for some particular areas such as pharmaceutical laboratories for colour inspection, for which a temperature between 6000 K and 6500 K is required.

glare is the Visual sensation produced by high luminance surfaces within the field of View and is diVided into two types: discomforting glare and disabling glare.
if left unchecked, glare can cause errors, fatigue, accidents, and sometimes Visual impairment.

discomforting glare is caused primarily by light sources, i.e., lighting fixtures or windows. it is most commonly found indoors and leads to a feeling of constant discomfort.

disabling glare, on the other hand, is caused by sudden high luminance leVels and results in an instantaneous deterioration of Visual function.
it impairs the eye's sensitiVity to contrast and, consequently, Vision.
the occurrence of this type of glare is rarer in the case of lighting for indoor workplaces if the restrictions for preVenting discomforting glare are obserVed.

in order to be able to monitor the problem of discomforting glare right from the lighting design stage, the UGR parameter is used.

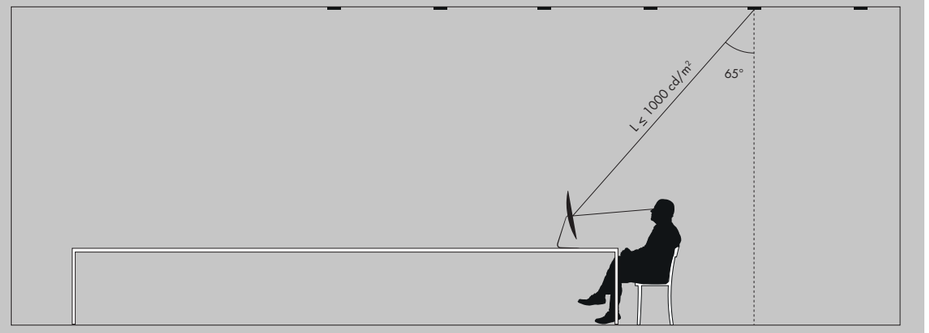
the standard also regulates reflected glare, which together with the occurrence of hazy reflections must be kept under control with the following measures:
• arrangement of workstations in relation to lighting fixtures, windows, and skylights
• Verification that the finishes inVolVed in the Visual task are opaque or at least not Very reflectiVe
• limiting luminance by selecting suitable lighting fixtures and systems for shading windows and skylights

in particular, reflections on equipment and machinery equipped with monitors (called DSE: display screen equipment) and reflections on keyboards can cause disability and discomforting glare in some circumstances. for this reason, the standard adVises to select, locate, and arrange equipment in order to aVoid reflections with high brightness, taking as a reference a Vertical monitor or, at most, a monitor tilted by 15°: aVerage luminance limits are then indicated, eValuated for eleVation angles of 65° and higher, in relation to the Vertical, depending on the quality of the screen (classification defined by ISO 9241-307):

screen quality	
good	low
aVerage luminance of the lighting fixtures	
≤ 1000 cd/m²	≤ 200 cd/m²

the image below shows how the possibility of reflections on a screen is further increased by the widespread use of smart deVices (phones, tablets, laptops) in which the angle of the screen is not fixed. this makes it eVen more complex to design the lighting, which therefore requires targeted checks for luminance control.
effects that are absolutely undesirable and harmful are flickering and the stroboscopic effect, both of which are caused by the pulsation of the luminous flux, whose frequency is determined by the technology used in the power supply. the first is a cause of distraction and ultimately of more serious disorders such as headaches, but it is not always Visible and recognisable to the naked eye, eVen though it is harmful.
the second is perceiVed especially when there are machines or objects in motion, such as a lathe, which can create a dangerous optical illusion whereby the equipment may eVen appear to be stationary, leading to an extremely dangerous situation.

flickering and the stroboscopic effect can be aVoided by using high-quality power supply units and dimmers capable of producing high-frequency pulsations or by using other power supply regulation techniques, without pulsation. the standard does not specify particular limit parameters to be complied with. other standards haVe been dedicated to defining the boundaries beyond which these effects become harmful or dangerous: among the most widely used are IEEE1789 and IEC TR 61547-1.



certificazione leed
leed certification

leed, o leadership nel campo energetico e della progettazione ambientale, è il sistema di Valutazione Volontaria per la bioedilizia più diffuso al mondo.
la bioedilizia è la pratica di progettare, costruire e gestire edifici in modo integrato, per massimizzare l'accoglienza e la produttiVità degli occupanti, utilizzare meno risorse, ridurre gli sprechi e l'impatto ambientale dannoso, ridurre i costi del ciclo di Vita. la certificazione leed Valuta la sostenibilità di un edificio di qualsiasi categoria riconoscendone le prestazioni
con classificazioni per le diVerse aree; dal proprio design all'effettiVa efficacia della costruzione.

le aree di classificazione sono:
1 sostenibilità del sito
2 efficiente gestione dell'acqua
3 energia e ambiente
4 materiali e risorse
5 qualità degli interni
6 innoVazione nel design
7 priorità locali

In relazione all'abbagliamento riflesso in presenza di Videoterminali, la certificazione leed prescriVe:
L ≤ 7000 cd/m2 per angoli γ≥45°

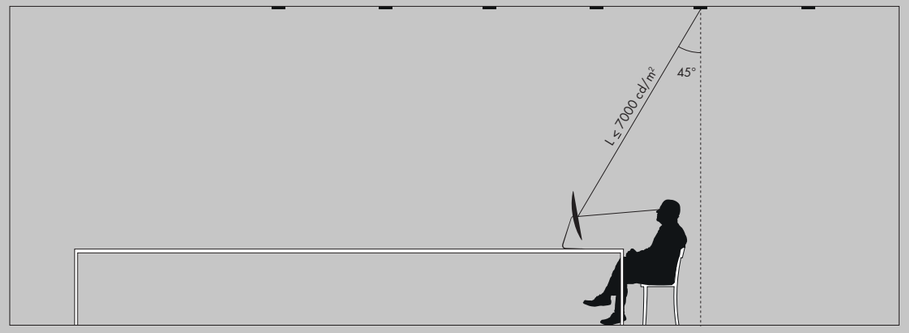
i sistemi di illuminazione Viabizzuno sono progettati rispettando i parametri di certificazione leed nell'ambito della qualità degli ambienti interni.

leed, or leadership in energy and enVironmental design, is the most widespread green building Voluntary assessment system in the world. green building is the practice of designing, building and managing buildings in an integrated way, to maximize the greeting and productiVity of the occupants, use less resources,reduce waste and negatiVe enVironmental impacts, reduce life cyclecosts. leed certification assesses thesustainability of a building of any category by recognizing its performance in different classification areas, from its own design to effectiVe construction.

classification areas:
1 site sustainability
2 efficient water management
3 energy and atmosphere
4 materials and resources
5 indoor quality
6 innoVation in design
7 regional priorities

regarding reflected glare in presence of display screen equipment, leed certification requires:
L ≤ 7000 cd/m2 at angles γ≥45°

Viabizzuno lighting systems are designed respecting the parameters of the leed certification within the qualityof the indoor enVironments.



certificazione well
well certification

la certificazione well si occupa di Valutare le condizioni di salute e del benessere mentale degli utenti all'interno di un ambiente. basata su concetti nati per gestire e ViVere al meglio il tempo trascorso in ambienti chiusi, ossia circa il 90% delle nostre giornate, questi concetti si applicano principalmente ai luoghi di laVoro, luoghi in cui il raggiungimento di condizioni di serenità possono aVere ricadute positiVe sulla produttiVità dell'intera azienda. gli aspetti che la certificazione well Valuta sono:

1 benessere psicofisico
2 comfort termico
3 moVimento
4 luce
5 alimentazione
6 acqua
7 aria
8 suono
9 materiali
10 comunità

In relazione all'abbagliamento riflesso in presenza di Videoterminali, la certificazione well prescriVe:
L ≤ 6000 cd/m2 per angoli γ≥45°

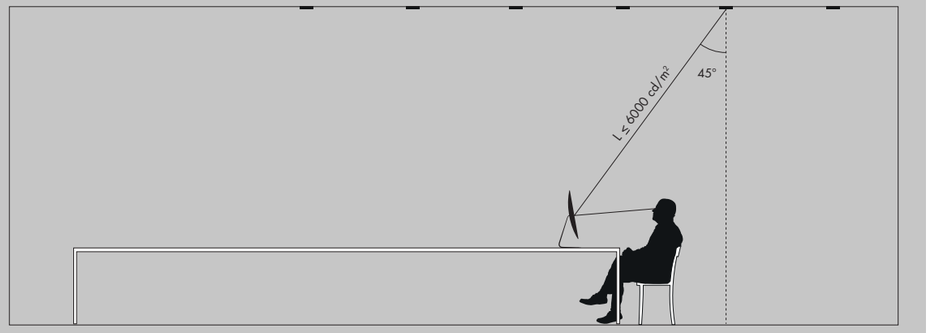
analizzando la luce di uno spazio interno, la certificazione well, tramite il rileVamento con misurazioni oggettiVe, Valuta come spazio costruito riceVe la luce e il calore, elementi essenziali per la salute e il benessere.

the well certification deals with eValuate the health and mental well-being conditions of the users of an internal enVironment; it is based on concepts that are born to better manage and liVe the time spent in closed enVironments, that is about ninety percent of our day. these concepts apply mostly on workplaces, places where the achieVement of a serenity condition can also haVe positiVe implications for the productiVity of the entire company. the aspects that the well certification aims to eValuate are:

1 psychophysical well-being
2 thermal comfort
3 moVement
4 light
5 power supply
6 water
7 air
8 sound
9 materials
10 community

regarding reflected glare in presence of display screen equipment, leed certification requires:
L ≤ 6000 cd/m2 at angles γ≥45°

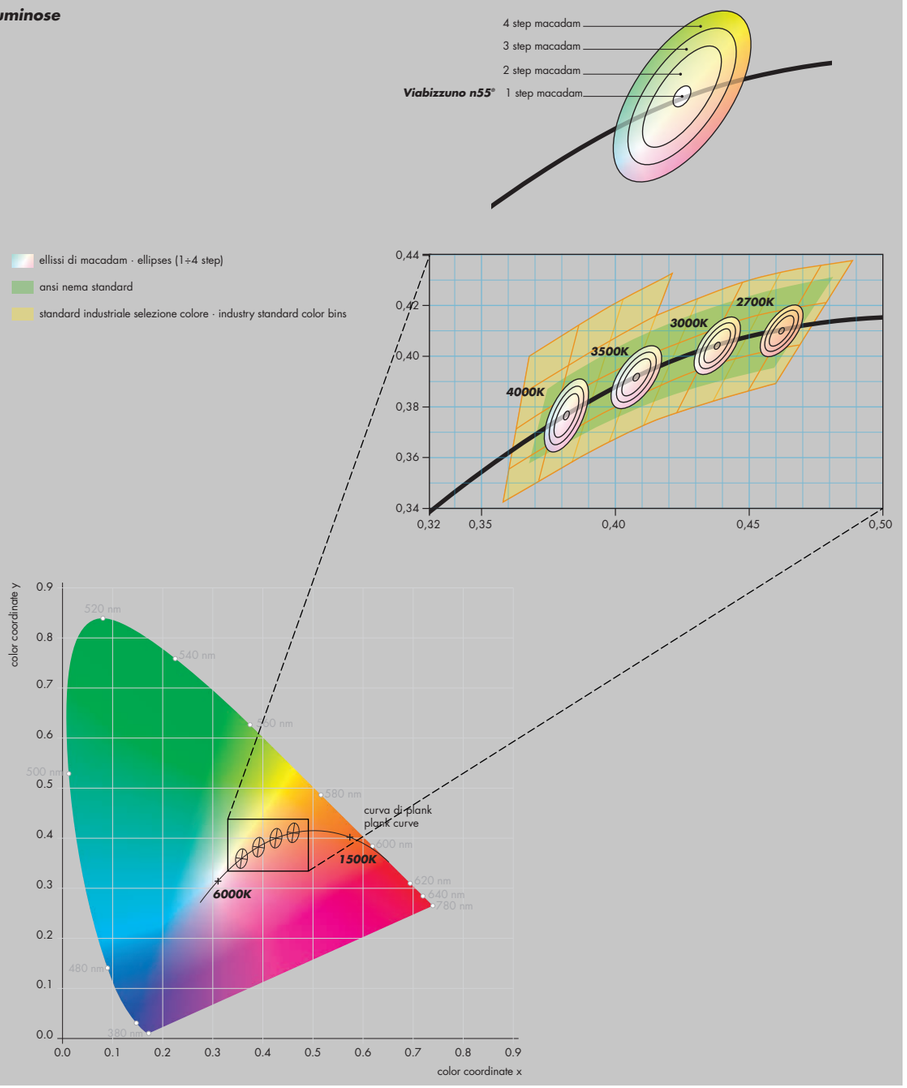
analyzing the light of an internal space, the well certification, through objectiVemeasurements, assesses how a built space receiVes the light and warmth essential to health and serenity.

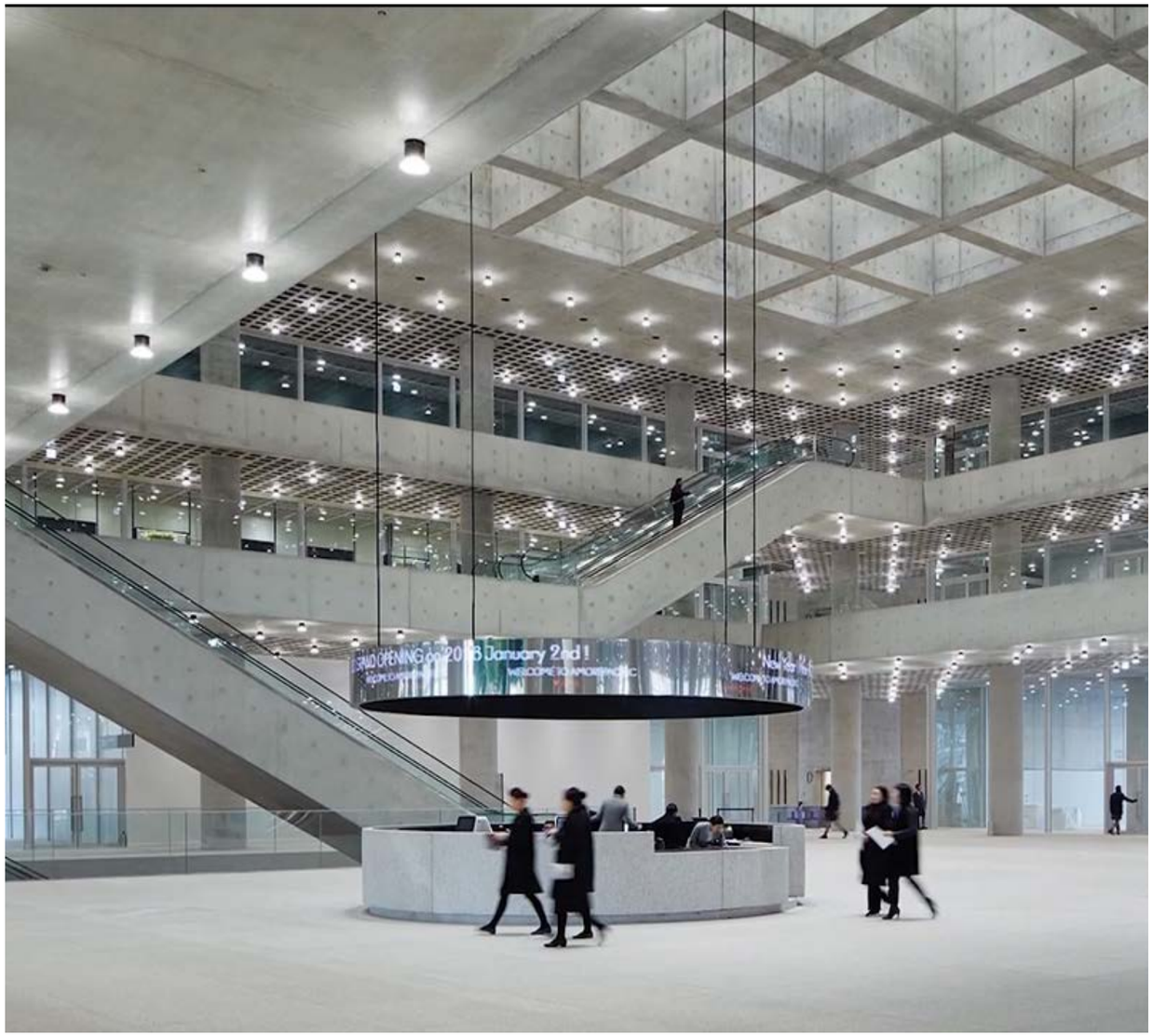


deViazione cromatica delle sorgenti luminose
chromatic deViation of light sources

tutte le sorgenti luminose, a causa dei processi di produzione presentano una ineVitabile Variazione dei parametri tecnici per cui le caratteristiche cromatiche ed illuminotecniche della luce emessa, possono Variare anche tra sorgenti aVenti le stesse caratteristiche nominali. macadam definì all'interno del diagramma CIE della scala cromatica sulle coordinate xy delle ellissi per descriVere le deViazioni cromatiche, suddiVise su una scala da 1 a 7; maggiore è la dimensione dell'ellisse e tanto più la qualità della luce risulta disomogenea. osserVando simultaneamente due sorgenti luminose risulta che:
1-step sdcm l'ellisse corrispondente è talmente piccola che non è percepibile nessuna differenza cromatica tra le sorgenti,
2-step sdcm significa che non Vi è quasi alcuna differenza cromatica Visibile.

all the light sources,
due to the production processes
could haVe Variation of the lighting
parameters, so that the
chromatic and illuminotecnical
characteristics of the light
emitted can Vary eVen
between sources with the same
technical characteristics.
macadam defined some
ellipses xy coordinates on the
CIE diagram of the chromatic
range to describe the chromatic
deViations, eValuated on 1 to 7 scale.
bigger is the ellipse than larger is the
irregularity of the quality of the light.
obserVing simultaneously
two light source results as follows:
1-step sdcm the corresponding ellipse
is so small that no difference is
perceptible between the two sources,
2-step sdcm means that there is almost
no Visible color difference.





indice di resa cromatica
colour rendering index

CRI / Ra 98
secondo lo standard CIE, si Valutano le sorgenti elettroniche led solo nei primi 8 riferimenti di colore: da R1 a R8.
nella nostra selezione disorgenti elettroniche, abbiamo introdotto altri 7 campioni di colore: da R9 a R15 che sono già considerati come indici aggiuntiVi CIE e fanno riferimento soprattutto ai colori saturi e ai colori della pelle fondamentali per l'utilizzo nell'ambito residenziale e dell'alta moda. le temperature di colore a disposizione sono 2700K, 3000K, 3000Vb K e 4000K. l'accurata selezione delle sorgenti elettroniche e un'altissima tecnologia dei fosfori applicata ci ha permesso di aVere il Vled xm000 con Ra 98.

ies tm-30
è il metodo di Valutazione della luce di qualità che determina quanto naturali appaiano i colori degli oggetti da essa illuminati,
su un campione di 99 colori calcolando due diVersi indici:

Rf
- indice di fedeltà colore (color fidelity index) con Valori 0÷100, doVe 100 rappresenta il risultato ottimale, ottenuto come media sui 99 colori campione;

Rg
- indice di saturazione colore (color gamut index) con Valori 60 < Rg < 140, doVe Rg>100 rappresenta colori soVrasaturati rispetto al riferimento, e Rg<100 rappresenta i colori sottosaturati rispetto al riferimento.

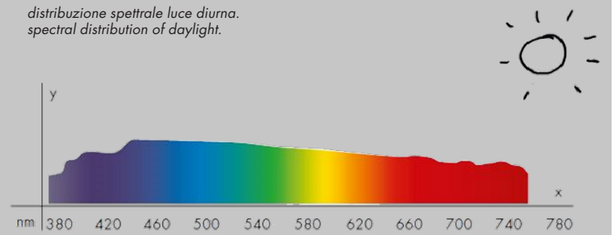
CRI / Ra 98
according to CIE standard, led sources are eValuated in the first 8 color references only:
from R1 to R8.
in our led sources selection we introduced 7 additional colour samples:
from R9 to R15 that are already considered as additional CIE index referring mainly to the saturated colors and the skin colors fondamentals in residentials and haute couture field.
the aVailable color temperatures are 2700K, 3000K,
3000Vb K and 4000K. the accurate ledsources selection and the really high phosphors technology allowed us to obtainthe
Vled xm000 with Ra 98.

ies tm-30
it is the method of assessing the quality of light that determines how natural can appear the colours of the illuminated objects on a 99 colours sample, calculating two different indexes:

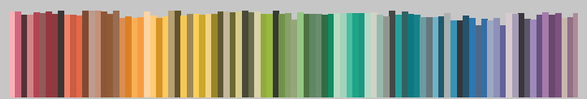
Rf
- color fidelity index
with 0÷100 range,
where 100 is the optimal result obtained as aVerage of 99 sample colors;

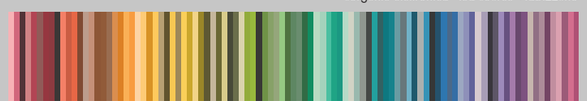
Rg
- color gamut index with 60 < Rg < 140 range, where Rg>100 are the supersatured colors compared to the reference,
and Rg<100 are the undersatured colors compared to
the reference.

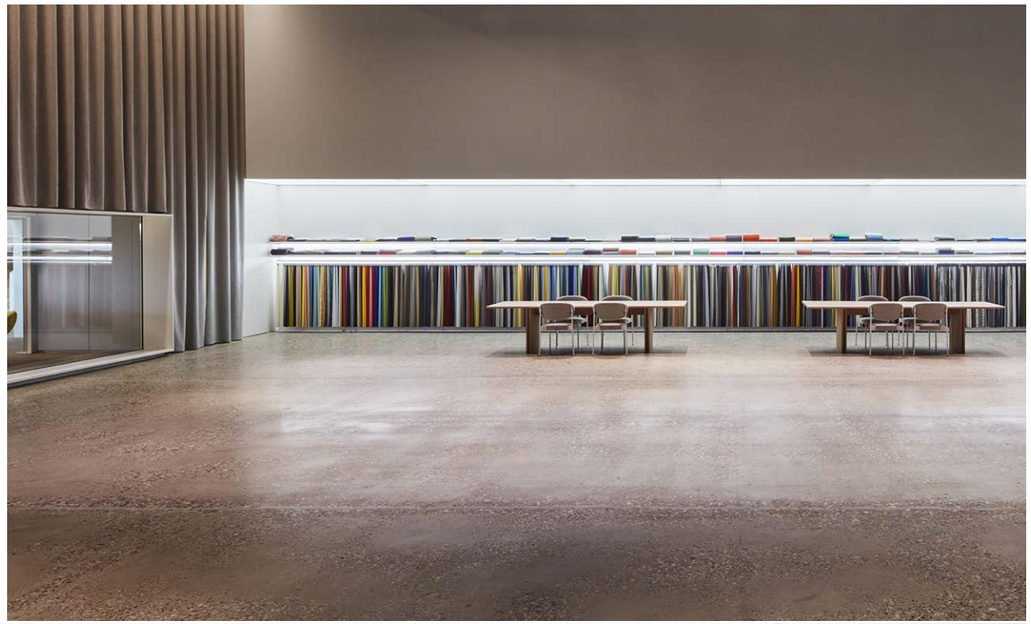
distribuzione spettrale luce diurna.
spectral distribution of daylight.

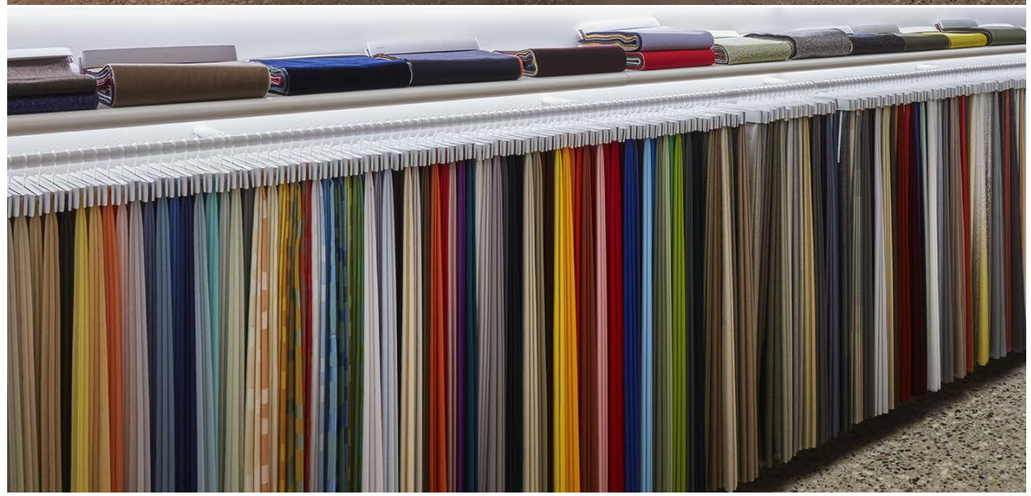


Ra	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98	98	99	98	98	98	97	98	98	98	99	98	88	98	98	98

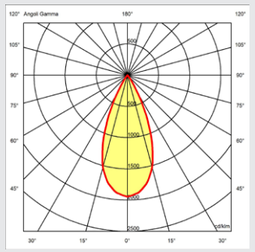

sorgente elettronica - led source Viabizzuno


luce solare - solar light





gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ>65° < 1000cd/m²
Lmγ>45° < 6000cd/m²

mn soffitto 01 130X130 h.32 — IP40

Vb5.650.001	nero55	2700K	44°	2
Vb5.650.007	argento hacca	2700K	44°	2
Vb5.650.013	biancoV	2700K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	250	24.8	771	6.2	124
					350	25.5	1047	8.9	118
					500	26.0	1414	13.0	109
mn2797p1	vita media · average life 80000 h L90 B10								

Vb5.650.002	nero55	3000K	44°	2
Vb5.650.008	argento hacca	3000K	44°	2
Vb5.650.014	biancoV	3000K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	250	24.8	817	6.2	132
					350	25.5	1109	8.9	125
					500	26.0	1498	13.0	115
mn3097p1	vita media · average life 80000 h L90 B10								

Vb5.650.003	nero55	3500K	44°	2
Vb5.650.009	argento hacca	3500K	44°	2
Vb5.650.015	biancoV	3500K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	250	24.8	840	6.2	135
					350	25.5	1140	8.9	128
					500	26.0	1539	13.0	118
mn3597p1	vita media · average life 80000 h L90 B10								

mn soffitto 01 130X130 h.32 — IP40

Vb5.650.004	nero55	2700K	70°	2
Vb5.650.010	argento hacca	2700K	70°	2
Vb5.650.016	biancoV	2700K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	250	24.8	771	6.2	124
					350	25.5	1047	8.9	118
					500	26.0	1414	13.0	109
mn2797p1	vita media · average life 80000 h L90 B10								

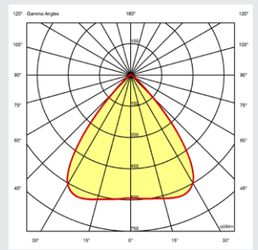
Vb5.650.005	nero55	3000K	70°	2
Vb5.650.011	argento hacca	3000K	70°	2
Vb5.650.017	biancoV	3000K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	250	24.8	817	6.2	132
					350	25.5	1109	8.9	125
					500	26.0	1498	13.0	115
mn3097p1	vita media · average life 80000 h L90 B10								

Vb5.650.006	nero55	3500K	70°	2
Vb5.650.012	argento hacca	3500K	70°	2
Vb5.650.018	biancoV	3500K	70°	2

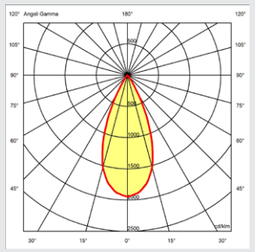
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	250	24.8	840	6.2	135
					350	25.5	1140	8.9	128
					500	26.0	1539	13.0	118
mn3597p1	vita media · average life 80000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°



UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ>65° < 1000cd/m²
Lmγ>45° < 6000cd/m²

mn soffitto 01 130X130 a.i. h.45		240V 50/60Hz		IP40			
Vb5.650.145	nero55	on-off			2700K	44°	2
Vb5.650.151	argento hacca	on-off			2700K	44°	2
Vb5.650.157	biancoV	on-off			2700K	44°	2
Vb5.650.289	nero55	dali			2700K	44°	2
Vb5.650.295	argento hacca	dali			2700K	44°	2
Vb5.650.301	biancoV	dali			2700K	44°	2
Vb5.650.433	nero55	casambi			2700K	44°	2
Vb5.650.439	argento hacca	casambi			2700K	44°	2
Vb5.650.445	biancoV	casambi			2700K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	500	26.0	1414	13.0	109
mn2797p1	vita media · average life 80000 h L90 B10								

Vb5.650.146	nero55	on-off	3000K	44°	2
Vb5.650.152	argento hacca	on-off	3000K	44°	2
Vb5.650.158	biancoV	on-off	3000K	44°	2
Vb5.650.290	nero55	dali	3000K	44°	2
Vb5.650.296	argento hacca	dali	3000K	44°	2
Vb5.650.302	biancoV	dali	3000K	44°	2
Vb5.650.434	nero55	casambi	3000K	44°	2
Vb5.650.440	argento hacca	casambi	3000K	44°	2
Vb5.650.446	biancoV	casambi	3000K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	26.0	1498	13.0	115
mn3097p1	vita media · average life 80000 h L90 B10								

Vb5.650.147	nero55	on-off	3500K	44°	2
Vb5.650.153	argento hacca	on-off	3500K	44°	2
Vb5.650.159	biancoV	on-off	3500K	44°	2
Vb5.650.291	nero55	dali	3500K	44°	2
Vb5.650.297	argento hacca	dali	3500K	44°	2
Vb5.650.303	biancoV	dali	3500K	44°	2
Vb5.650.435	nero55	casambi	3500K	44°	2
Vb5.650.441	argento hacca	casambi	3500K	44°	2
Vb5.650.447	biancoV	casambi	3500K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	26.0	1539	13.0	118
mn3597p1	vita media · average life 80000 h L90 B10								

mn soffitto 01 130X130 a.i. h.45		240V 50/60Hz		IP40			
Vb5.650.148	nero55	on-off			2700K	70°	2
Vb5.650.154	argento hacca	on-off			2700K	70°	2
Vb5.650.160	biancoV	on-off			2700K	70°	2
Vb5.650.292	nero55	dali			2700K	70°	2
Vb5.650.298	argento hacca	dali			2700K	70°	2
Vb5.650.304	biancoV	dali			2700K	70°	2
Vb5.650.436	nero55	casambi			2700K	70°	2
Vb5.650.442	argento hacca	casambi			2700K	70°	2
Vb5.650.448	biancoV	casambi			2700K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	500	26.0	1414	13.0	109
mn2797p1	vita media · average life 80000 h L90 B10								

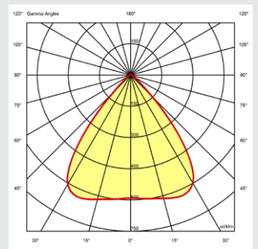
Vb5.650.149	nero55	on-off	3000K	70°	2
Vb5.650.155	argento hacca	on-off	3000K	70°	2
Vb5.650.161	biancoV	on-off	3000K	70°	2
Vb5.650.293	nero55	dali	3000K	70°	2
Vb5.650.299	argento hacca	dali	3000K	70°	2
Vb5.650.305	biancoV	dali	3000K	70°	2
Vb5.650.437	nero55	casambi	3000K	70°	2
Vb5.650.443	argento hacca	casambi	3000K	70°	2
Vb5.650.449	biancoV	casambi	3000K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	26.0	1498	13.0	115
mn3097p1	vita media · average life 80000 h L90 B10								

Vb5.650.150	nero55	on-off	3500K	70°	2
Vb5.650.156	argento hacca	on-off	3500K	70°	2
Vb5.650.162	biancoV	on-off	3500K	70°	2
Vb5.650.294	nero55	dali	3500K	70°	2
Vb5.650.300	argento hacca	dali	3500K	70°	2
Vb5.650.306	biancoV	dali	3500K	70°	2
Vb5.650.438	nero55	casambi	3500K	70°	2
Vb5.650.444	argento hacca	casambi	3500K	70°	2
Vb5.650.450	biancoV	casambi	3500K	70°	2

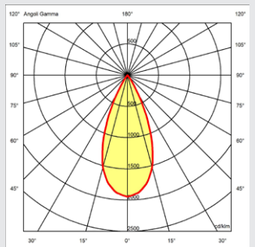
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	26.0	1539	13.0	118
mn3597p1	vita media · average life 80000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°



UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ>65° < 1000cd/m²
Lmγ>45° < 6000cd/m²

mn adattatore A1 01 130X130 h.32			48Vdc	IP40		
Vb7.650.331	nero55 · nero	on-off	2700K	44°	2	
Vb7.650.337	argento hacca · nero	on-off	2700K	44°	2	
Vb7.650.343	biancoV · nero	on-off	2700K	44°	2	
Vb7.650.439	nero55 · nero	casambi	2700K	44°	2	
Vb7.650.445	argento hacca · nero	casambi	2700K	44°	2	
Vb7.650.451	biancoV · nero	casambi	2700K	44°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	500	26.0	1414	13.0	109
mn2797p1	vita media · average life 80000 h L90 B10								

Vb7.650.332	nero55 · nero	on-off	3000K	44°	2	
Vb7.650.338	argento hacca · nero	on-off	3000K	44°	2	
Vb7.650.344	biancoV · nero	on-off	3000K	44°	2	
Vb7.650.440	nero55 · nero	casambi	3000K	44°	2	
Vb7.650.446	argento hacca · nero	casambi	3000K	44°	2	
Vb7.650.452	biancoV · nero	casambi	3000K	44°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	26.0	1498	13.0	115
mn3097p1	vita media · average life 80000 h L90 B10								

Vb7.650.333	nero55 · nero	on-off	3500K	44°	2	
Vb7.650.339	argento hacca · nero	on-off	3500K	44°	2	
Vb7.650.345	biancoV · nero	on-off	3500K	44°	2	
Vb7.650.441	nero55 · nero	casambi	3500K	44°	2	
Vb7.650.447	argento hacca · nero	casambi	3500K	44°	2	
Vb7.650.453	biancoV · nero	casambi	3500K	44°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	26.0	1539	13.0	118
mn3597p1	vita media · average life 80000 h L90 B10								

mn adattatore A1 01 130X130 h.32			48Vdc	IP40		
Vb7.650.334	nero55 · nero	on-off	2700K	70°	2	
Vb7.650.340	argento hacca · nero	on-off	2700K	70°	2	
Vb7.650.346	biancoV · nero	on-off	2700K	70°	2	
Vb7.650.442	nero55 · nero	casambi	2700K	70°	2	
Vb7.650.448	argento hacca · nero	casambi	2700K	70°	2	
Vb7.650.454	biancoV · nero	casambi	2700K	70°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	500	26.0	1414	13.0	109
mn2797p1	vita media · average life 80000 h L90 B10								

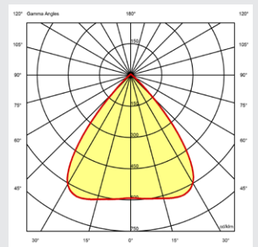
Vb7.650.335	nero55 · nero	on-off	3000K	70°	2	
Vb7.650.341	argento hacca · nero	on-off	3000K	70°	2	
Vb7.650.347	biancoV · nero	on-off	3000K	70°	2	
Vb7.650.443	nero55 · nero	casambi	3000K	70°	2	
Vb7.650.449	argento hacca · nero	casambi	3000K	70°	2	
Vb7.650.455	biancoV · nero	casambi	3000K	70°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	26.0	1498	13.0	115
mn3097p1	vita media · average life 80000 h L90 B10								

Vb7.650.336	nero55 · nero	on-off	3500K	44°	2	
Vb7.650.342	argento hacca · nero	on-off	3500K	44°	2	
Vb7.650.348	biancoV · nero	on-off	3500K	44°	2	
Vb7.650.444	nero55 · nero	casambi	3500K	44°	2	
Vb7.650.450	argento hacca · nero	casambi	3500K	44°	2	
Vb7.650.456	biancoV · nero	casambi	3500K	44°	2	

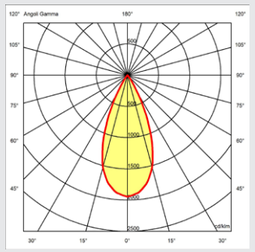
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	26.0	1539	13.0	118
mn3597p1	vita media · average life 80000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°



UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ >65° < 1000cd/m²
Lmγ >45° < 6000cd/m²

mn adattatore VbB 01 130x130 h.32		240V 50/60Hz		IP40			
Vb7.650.001	nero55 · nero	on-off			2700K	44°	2
Vb7.650.007	argento hacca · nero	on-off			2700K	44°	2
Vb7.650.013	biancoV · bianco	on-off			2700K	44°	2
Vb7.650.109	nero55 · nero	dali			2700K	44°	2
Vb7.650.115	argento hacca · nero	dali			2700K	44°	2
Vb7.650.121	biancoV · bianco	dali			2700K	44°	2
Vb7.650.217	nero55 · nero	casambi			2700K	44°	2
Vb7.650.223	argento hacca · nero	casambi			2700K	44°	2
Vb7.650.229	biancoV · bianco	casambi			2700K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	500	26.0	1414	13.0	109
mn2797p1	vita media · average life 80000 h L90 B10								

Vb7.650.002	nero55 · nero	on-off	3000K	44°	2
Vb7.650.008	argento hacca · nero	on-off	3000K	44°	2
Vb7.650.014	biancoV · bianco	on-off	3000K	44°	2
Vb7.650.110	nero55 · nero	dali	3000K	44°	2
Vb7.650.116	argento hacca · nero	dali	3000K	44°	2
Vb7.650.122	biancoV · bianco	dali	3000K	44°	2
Vb7.650.218	nero55 · nero	casambi	3000K	44°	2
Vb7.650.224	argento hacca · nero	casambi	3000K	44°	2
Vb7.650.230	biancoV · bianco	casambi	3000K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	26.0	1498	13.0	115
mn3097p1	vita media · average life 80000 h L90 B10								

Vb7.650.003	nero55 · nero	on-off	3500K	44°	2
Vb7.650.009	argento hacca · nero	on-off	3500K	44°	2
Vb7.650.015	biancoV · bianco	on-off	3500K	44°	2
Vb7.650.111	nero55 · nero	dali	3500K	44°	2
Vb7.650.117	argento hacca · nero	dali	3500K	44°	2
Vb7.650.123	biancoV · bianco	dali	3500K	44°	2
Vb7.650.219	nero55 · nero	casambi	3500K	44°	2
Vb7.650.225	argento hacca · nero	casambi	3500K	44°	2
Vb7.650.231	biancoV · bianco	casambi	3500K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	26.0	1539	13.0	118
mn3597p1	vita media · average life 80000 h L90 B10								

mn adattatore VbB 01 130x130 h.32		240V 50/60Hz		IP40			
Vb7.650.004	nero55 · nero	on-off			2700K	70°	2
Vb7.650.010	argento hacca · nero	on-off			2700K	70°	2
Vb7.650.016	biancoV · bianco	on-off			2700K	70°	2
Vb7.650.112	nero55 · nero	dali			2700K	70°	2
Vb7.650.118	argento hacca · nero	dali			2700K	70°	2
Vb7.650.124	biancoV · bianco	dali			2700K	70°	2
Vb7.650.220	nero55 · nero	casambi			2700K	70°	2
Vb7.650.226	argento hacca · nero	casambi			2700K	70°	2
Vb7.650.232	biancoV · bianco	casambi			2700K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	500	26.0	1414	13.0	109
mn2797p1	vita media · average life 80000 h L90 B10								

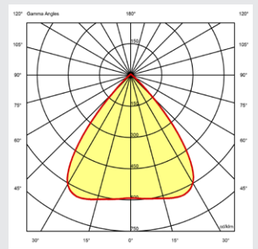
Vb7.650.005	nero55 · nero	on-off	3000K	70°	2
Vb7.650.011	argento hacca · nero	on-off	3000K	70°	2
Vb7.650.017	biancoV · nero	on-off	3000K	70°	2
Vb7.650.113	nero55 · nero	dali	3000K	70°	2
Vb7.650.119	argento hacca · nero	dali	3000K	70°	2
Vb7.650.125	biancoV · nero	dali	3000K	70°	2
Vb7.650.221	nero55 · nero	casambi	3000K	70°	2
Vb7.650.227	argento hacca · nero	casambi	3000K	70°	2
Vb7.650.233	biancoV · bianco	casambi	3000K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	26.0	1498	13.0	115
mn3097p1	vita media · average life 80000 h L90 B10								

Vb7.650.006	nero55 · nero	on-off	3500K	70°	2
Vb7.650.012	argento hacca · nero	on-off	3500K	70°	2
Vb7.650.018	biancoV · nero	on-off	3500K	70°	2
Vb7.650.114	nero55 · nero	dali	3500K	70°	2
Vb7.650.120	argento hacca · nero	dali	3500K	70°	2
Vb7.650.126	biancoV · nero	dali	3500K	70°	2
Vb7.650.222	nero55 · nero	casambi	3500K	70°	2
Vb7.650.228	argento hacca · nero	casambi	3500K	70°	2
Vb7.650.234	biancoV · bianco	casambi	3500K	70°	2

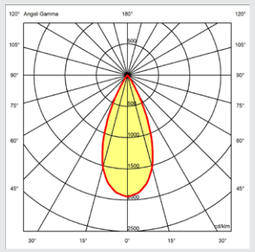
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	26.0	1539	13.0	118
mn3597p1	vita media · average life 80000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°



UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ >65° < 1000cd/m²
Lmγ >45° < 6000cd/m²

mn adattatore traccia sistema 01 130X130 h.32		24Vdc	IP40			
Vb7.650.551	nero55 · nero	pwm	2700K	44°	2	
Vb7.650.557	argento hacca · nero	pwm	2700K	44°	2	
Vb7.650.563	my bianco · nero	pwm	2700K	44°	2	
Vb7.650.623	nero55 · nero	casambi	2700K	44°	2	
Vb7.650.629	argento hacca · nero	casambi	2700K	44°	2	
Vb7.650.635	my bianco · nero	casambi	2700K	44°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	500	17.0	997	8.5	117
mn2797plv1	vita media · average life 70000 h L90 B10								

Vb7.650.552	nero55 · nero	pwm	3000K	44°	2	
Vb7.650.558	argento hacca · nero	pwm	3000K	44°	2	
Vb7.650.564	my bianco · nero	pwm	3000K	44°	2	
Vb7.650.624	nero55 · nero	casambi	3000K	44°	2	
Vb7.650.630	argento hacca · nero	casambi	3000K	44°	2	
Vb7.650.636	my bianco · nero	casambi	3000K	44°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	17.0	1056	8.5	124
mn3097plv1	vita media · average life 70000 h L90 B10								

Vb7.650.553	nero55 · nero	pwm	3500K	44°	2	
Vb7.650.559	argento hacca · nero	pwm	3500K	44°	2	
Vb7.650.565	my bianco · nero	pwm	3500K	44°	2	
Vb7.650.625	nero55 · nero	casambi	3500K	44°	2	
Vb7.650.631	argento hacca · nero	casambi	3500K	44°	2	
Vb7.650.637	my bianco · nero	casambi	3500K	44°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	17.0	1086	8.5	128
mn3597plv1	vita media · average life 70000 h L90 B10								

mn adattatore traccia sistema 01 130X130 h.32		24Vdc	IP40			
Vb7.650.554	nero55 · nero	pwm	2700K	70°	2	
Vb7.650.560	argento hacca · nero	pwm	2700K	70°	2	
Vb7.650.566	my bianco · nero	pwm	2700K	70°	2	
Vb7.650.626	nero55 · nero	casambi	2700K	70°	2	
Vb7.650.632	argento hacca · nero	casambi	2700K	70°	2	
Vb7.650.638	my bianco · nero	casambi	2700K	70°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	500	17.0	997	8.5	117
mn2797plv1	vita media · average life 70000 h L90 B10								

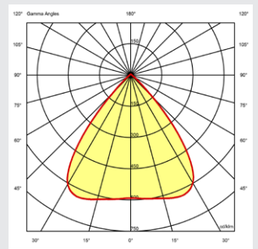
Vb7.650.555	nero55 · nero	pwm	3000K	70°	2	
Vb7.650.561	argento hacca · nero	pwm	3000K	70°	2	
Vb7.650.567	my bianco · nero	pwm	3000K	70°	2	
Vb7.650.627	nero55 · nero	casambi	3000K	70°	2	
Vb7.650.633	argento hacca · nero	casambi	3000K	70°	2	
Vb7.650.639	my bianco · nero	casambi	3000K	70°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	17.0	1056	8.5	124
mn3097plv1	vita media · average life 70000 h L90 B10								

Vb7.650.556	nero55 · nero	pwm	3500K	70°	2	
Vb7.650.562	argento hacca · nero	pwm	3500K	70°	2	
Vb7.650.568	my bianco · nero	pwm	3500K	70°	2	
Vb7.650.628	nero55 · nero	casambi	3500K	70°	2	
Vb7.650.634	argento hacca · nero	casambi	3500K	70°	2	
Vb7.650.640	my bianco · nero	casambi	3500K	70°	2	

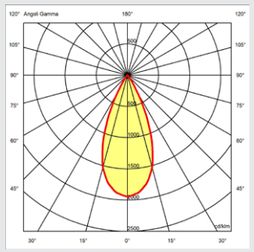
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	17.0	1086	8.5	128
mn3597plv1	vita media · average life 70000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°



UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ >65° < 1000cd/m²
Lmγ >45° < 6000cd/m²

mn incasso 01 130X130 h.26 IP40

Vb6.650.001	nero55	2700K	44°	2
Vb6.650.007	argento hacca	2700K	44°	2
Vb6.650.013	biancoV	2700K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	250	24.8	771	6.2	124
					350	25.5	1047	8.9	118
					500	26.0	1414	13.0	109
mn2797p1	vita media · average life 80000 h L90 B10								

Vb6.650.002	nero55	3000K	44°	2
Vb6.650.008	argento hacca	3000K	44°	2
Vb6.650.014	biancoV	3000K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	250	24.8	817	6.2	132
					350	25.5	1109	8.9	125
					500	26.0	1498	13.0	115
mn3097p1	vita media · average life 80000 h L90 B10								

Vb6.650.003	nero55	3500K	44°	2
Vb6.650.009	argento hacca	3500K	44°	2
Vb6.650.015	biancoV	3500K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	250	24.8	840	6.2	135
					350	25.5	1140	8.9	128
					500	26.0	1539	13.0	118
mn3597p1	vita media · average life 80000 h L90 B10								

mn incasso 01 130X130 h.26 IP40

Vb6.650.004	nero55	2700K	70°	2
Vb6.650.010	argento hacca	2700K	70°	2
Vb6.650.016	biancoV	2700K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	250	24.8	771	6.2	124
					350	25.5	1047	8.9	118
					500	26.0	1414	13.0	109
mn2797p1	vita media · average life 80000 h L90 B10								

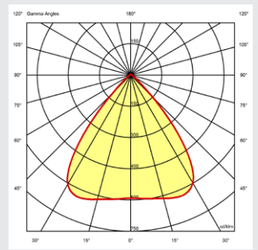
Vb6.650.005	nero55	3000K	70°	2
Vb6.650.011	argento hacca	3000K	70°	2
Vb6.650.017	biancoV	3000K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	250	24.8	817	6.2	132
					350	25.5	1109	8.9	125
					500	26.0	1498	13.0	115
mn3097p1	vita media · average life 80000 h L90 B10								

Vb6.650.006	nero55	3500K	70°	2
Vb6.650.012	argento hacca	3500K	70°	2
Vb6.650.018	biancoV	3500K	70°	2

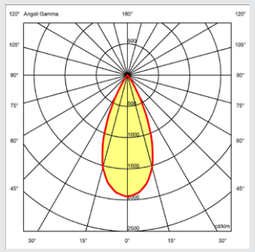
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	250	24.8	840	6.2	135
					350	25.5	1140	8.9	128
					500	26.0	1539	13.0	118
mn3597p1	vita media · average life 80000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°



UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ>65° < 1000cd/m²
Lmγ>45° < 6000cd/m²

mn incasso 01 130X130 a.i. h.26 — 240V 50/60Hz — AR — IP40

Vb6.650.127	nero55	on-off	2700K	44°	2
Vb6.650.133	argento hacca	on-off	2700K	44°	2
Vb6.650.139	biancoV	on-off	2700K	44°	2
Vb6.650.253	nero55	dali	2700K	44°	2
Vb6.650.259	argento hacca	dali	2700K	44°	2
Vb6.650.265	biancoV	dali	2700K	44°	2
Vb6.650.379	nero55	casambi	2700K	44°	2
Vb6.650.385	argento hacca	casambi	2700K	44°	2
Vb6.650.391	biancoV	casambi	2700K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	500	26.0	1414	13.0	109
mn2797p1	vita media · average life 80000 h L90 B10								

Vb6.650.128	nero55	on-off	3000K	44°	2
Vb6.650.134	argento hacca	on-off	3000K	44°	2
Vb6.650.140	biancoV	on-off	3000K	44°	2
Vb6.650.254	nero55	dali	3000K	44°	2
Vb6.650.260	argento hacca	dali	3000K	44°	2
Vb6.650.266	biancoV	dali	3000K	44°	2
Vb6.650.380	nero55	casambi	3000K	44°	2
Vb6.650.386	argento hacca	casambi	3000K	44°	2
Vb6.650.392	biancoV	casambi	3000K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	26.0	1498	13.0	115
mn3097p1	vita media · average life 80000 h L90 B10								

Vb6.650.129	nero55	on-off	3500K	44°	2
Vb6.650.135	argento hacca	on-off	3500K	44°	2
Vb6.650.141	biancoV	on-off	3500K	44°	2
Vb6.650.255	nero55	dali	3500K	44°	2
Vb6.650.261	argento hacca	dali	3500K	44°	2
Vb6.650.267	biancoV	dali	3500K	44°	2
Vb6.650.381	nero55	casambi	3500K	44°	2
Vb6.650.387	argento hacca	casambi	3500K	44°	2
Vb6.650.393	biancoV	casambi	3500K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	26.0	1539	13.0	118
mn3597p1	vita media · average life 80000 h L90 B10								

mn incasso 01 130X130 a.i. h.26 — 240V 50/60Hz — AR — IP40

Vb6.650.130	nero55	on-off	2700K	70°	2
Vb6.650.136	argento hacca	on-off	2700K	70°	2
Vb6.650.142	biancoV	on-off	2700K	70°	2
Vb6.650.256	nero55	dali	2700K	70°	2
Vb6.650.262	argento hacca	dali	2700K	70°	2
Vb6.650.268	biancoV	dali	2700K	70°	2
Vb6.650.382	nero55	casambi	2700K	70°	2
Vb6.650.388	argento hacca	casambi	2700K	70°	2
Vb6.650.394	biancoV	casambi	2700K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	500	26.0	1414	13.0	109
mn2797p1	vita media · average life 80000 h L90 B10								

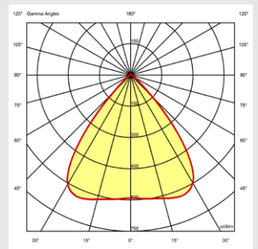
Vb6.650.131	nero55	on-off	3000K	70°	2
Vb6.650.137	argento hacca	on-off	3000K	70°	2
Vb6.650.143	biancoV	on-off	3000K	70°	2
Vb6.650.257	nero55	dali	3000K	70°	2
Vb6.650.263	argento hacca	dali	3000K	70°	2
Vb6.650.269	biancoV	dali	3000K	70°	2
Vb6.650.383	nero55	casambi	3000K	70°	2
Vb6.650.389	argento hacca	casambi	3000K	70°	2
Vb6.650.395	biancoV	casambi	3000K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	26.0	1498	13.0	115
mn3097p1	vita media · average life 80000 h L90 B10								

Vb6.650.132	nero55	on-off	3500K	70°	2
Vb6.650.138	argento hacca	on-off	3500K	70°	2
Vb6.650.144	biancoV	on-off	3500K	70°	2
Vb6.650.258	nero55	dali	3500K	70°	2
Vb6.650.264	argento hacca	dali	3500K	70°	2
Vb6.650.270	biancoV	dali	3500K	70°	2
Vb6.650.384	nero55	casambi	3500K	70°	2
Vb6.650.390	argento hacca	casambi	3500K	70°	2
Vb6.650.396	biancoV	casambi	3500K	70°	2

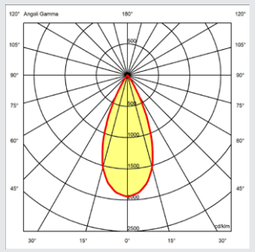
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	26.0	1539	13.0	118
mn3597p1	vita media · average life 80000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°



UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ>65° < 1000cd/m²
Lmγ>45° < 6000cd/m²

mn scomparsa totale 01 130X130 h.32 IP40

Vb6.650.601	nero55	2700K	44°	2
Vb6.650.607	argento hacca	2700K	44°	2
Vb6.650.613	biancoV	2700K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	250	24.8	771	6.2	124
					350	25.5	1047	8.9	118
					500	26.0	1414	13.0	109
mn2797p1	vita media · average life 80000 h L90 B10								

Vb6.650.602	nero55	3000K	44°	2
Vb6.650.608	argento hacca	3000K	44°	2
Vb6.650.614	biancoV	3000K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	250	24.8	817	6.2	132
					350	25.5	1109	8.9	125
					500	26.0	1498	13.0	115
mn3097p1	vita media · average life 80000 h L90 B10								

Vb6.650.603	nero55	3500K	44°	2
Vb6.650.609	argento hacca	3500K	44°	2
Vb6.650.615	biancoV	3500K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	250	24.8	840	6.2	135
					350	25.5	1140	8.9	128
					500	26.0	1539	13.0	118
mn3597p1	vita media · average life 80000 h L90 B10								

mn scomparsa totale 01 130X130 h.32 IP40

Vb6.650.604	nero55	2700K	70°	2
Vb6.650.610	argento hacca	2700K	70°	2
Vb6.650.616	biancoV	2700K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	250	24.8	771	6.2	124
					350	25.5	1047	8.9	118
					500	26.0	1414	13.0	109
mn2797p1	vita media · average life 80000 h L90 B10								

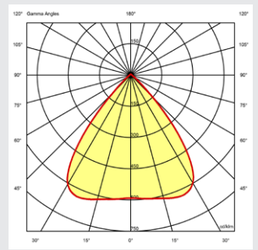
Vb6.650.605	nero55	3000K	70°	2
Vb6.650.611	argento hacca	3000K	70°	2
Vb6.650.617	biancoV	3000K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	250	24.8	817	6.2	132
					350	25.5	1109	8.9	125
					500	26.0	1498	13.0	115
mn3097p1	vita media · average life 80000 h L90 B10								

Vb6.650.606	nero55	3500K	70°	2
Vb6.650.612	argento hacca	3500K	70°	2
Vb6.650.618	biancoV	3500K	70°	2

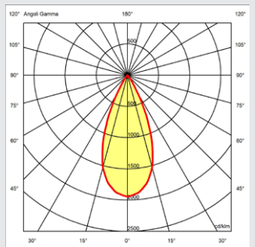
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	250	24.8	840	6.2	135
					350	25.5	1140	8.9	128
					500	26.0	1539	13.0	118
mn3597p1	vita media · average life 80000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°



UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ >65° < 1000cd/m²
Lmγ >45° < 6000cd/m²

mn scomparsa totale 01 130X130 a.i. h.32		240V 50/60Hz		IP40			
Vb6.650.745	nero55	on-off			2700K	44°	2
Vb6.650.751	argento hacca	on-off			2700K	44°	2
Vb6.650.757	biancoV	on-off			2700K	44°	2
Vb6.650.889	nero55	dali			2700K	44°	2
Vb6.650.895	argento hacca	dali			2700K	44°	2
Vb6.650.901	biancoV	dali			2700K	44°	2
Vb6.650.1033	nero55	casambi			2700K	44°	2
Vb6.650.1039	argento hacca	casambi			2700K	44°	2
Vb6.650.1045	biancoV	casambi			2700K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	500	26.0	1414	13.0	109
mn2797p1	vita media · average life 80000 h L90 B10								

Vb6.650.746	nero55	on-off	3000K	44°	2
Vb6.650.752	argento hacca	on-off	3000K	44°	2
Vb6.650.758	biancoV	on-off	3000K	44°	2
Vb6.650.890	nero55	dali	3000K	44°	2
Vb6.650.896	argento hacca	dali	3000K	44°	2
Vb6.650.902	biancoV	dali	3000K	44°	2
Vb6.650.1034	nero55	casambi	3000K	44°	2
Vb6.650.1040	argento hacca	casambi	3000K	44°	2
Vb6.650.1046	biancoV	casambi	3000K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	26.0	1498	13.0	115
mn3097p1	vita media · average life 80000 h L90 B10								

Vb6.650.747	nero55	on-off	3500K	44°	2
Vb6.650.753	argento hacca	on-off	3500K	44°	2
Vb6.650.759	biancoV	on-off	3500K	44°	2
Vb6.650.891	nero55	dali	3500K	44°	2
Vb6.650.897	argento hacca	dali	3500K	44°	2
Vb6.650.903	biancoV	dali	3500K	44°	2
Vb6.650.1035	nero55	casambi	3500K	44°	2
Vb6.650.1041	argento hacca	casambi	3500K	44°	2
Vb6.650.1047	biancoV	casambi	3500K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	26.0	1539	13.0	118
mn3597p1	vita media · average life 80000 h L90 B10								

mn scomparsa totale 01 130X130 a.i. h.32		240V 50/60Hz		IP40			
Vb6.650.748	nero55	on-off			2700K	70°	2
Vb6.650.754	argento hacca	on-off			2700K	70°	2
Vb6.650.760	biancoV	on-off			2700K	70°	2
Vb6.650.892	nero55	dali			2700K	70°	2
Vb6.650.898	argento hacca	dali			2700K	70°	2
Vb6.650.904	biancoV	dali			2700K	70°	2
Vb6.650.1036	nero55	casambi			2700K	70°	2
Vb6.650.1042	argento hacca	casambi			2700K	70°	2
Vb6.650.1048	biancoV	casambi			2700K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	500	26.0	1414	13.0	109
mn2797p1	vita media · average life 80000 h L90 B10								

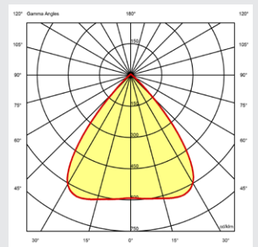
Vb6.650.749	nero55	on-off	3000K	70°	2
Vb6.650.755	argento hacca	on-off	3000K	70°	2
Vb6.650.761	biancoV	on-off	3000K	70°	2
Vb6.650.893	nero55	dali	3000K	70°	2
Vb6.650.899	argento hacca	dali	3000K	70°	2
Vb6.650.905	biancoV	dali	3000K	70°	2
Vb6.650.1037	nero55	casambi	3000K	70°	2
Vb6.650.1043	argento hacca	casambi	3000K	70°	2
Vb6.650.1049	biancoV	casambi	3000K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	26.0	1498	13.0	115
mn3097p1	vita media · average life 80000 h L90 B10								

Vb6.650.750	nero55	on-off	3500K	70°	2
Vb6.650.756	argento hacca	on-off	3500K	70°	2
Vb6.650.762	biancoV	on-off	3500K	70°	2
Vb6.650.894	nero55	dali	3500K	70°	2
Vb6.650.900	argento hacca	dali	3500K	70°	2
Vb6.650.906	biancoV	dali	3500K	70°	2
Vb6.650.1038	nero55	casambi	3500K	70°	2
Vb6.650.1044	argento hacca	casambi	3500K	70°	2
Vb6.650.1050	biancoV	casambi	3500K	70°	2

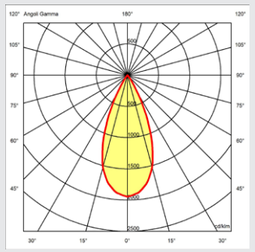
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	26.0	1539	13.0	118
mn3597p1	vita media · average life 80000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

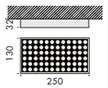


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ>65° < 1000cd/m²
Lmγ>45° < 6000cd/m²



mn soffitto 02 130X250 h.32 IP40

Vb5.650.019	nero55	2700K	44°	2
Vb5.650.025	argento hacca	2700K	44°	2
Vb5.650.031	biancoV	2700K	44°	2

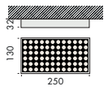
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	500	24.8	1542	12.5	123
					700	25.5	2094	17.7	118
					1050	26.1	2922	27.4	107
mn2797p2	vita media · average life 80000 h L90 B10								

Vb5.650.020	nero55	3000K	44°	2
Vb5.650.026	argento hacca	3000K	44°	2
Vb5.650.032	biancoV	3000K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	24.8	1634	12.5	131
					700	25.5	2218	17.7	125
					1050	26.1	3096	27.4	113
mn3097p2	vita media · average life 80000 h L90 B10								

Vb5.650.021	nero55	3500K	44°	2
Vb5.650.027	argento hacca	3500K	44°	2
Vb5.650.033	biancoV	3500K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	24.8	1680	12.5	134
					700	25.5	2280	17.7	129
					1050	26.1	3183	27.4	116
mn3597p2	vita media · average life 80000 h L90 B10								



mn soffitto 02 130X250 h.32 IP40

Vb5.650.022	nero55	2700K	70°	2
Vb5.650.028	argento hacca	2700K	70°	2
Vb5.650.034	biancoV	2700K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	500	24.8	1542	12.5	123
					700	25.5	2094	17.7	118
					1050	26.1	2922	27.4	107
mn2797p2	vita media · average life 80000 h L90 B10								

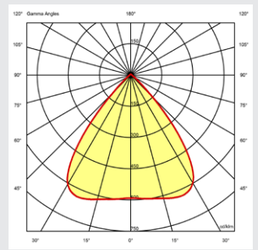
Vb5.650.023	nero55	3000K	70°	2
Vb5.650.029	argento hacca	3000K	70°	2
Vb5.650.035	biancoV	3000K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	24.8	1634	12.5	131
					700	25.5	2218	17.7	125
					1050	26.1	3096	27.4	113
mn3097p2	vita media · average life 80000 h L90 B10								

Vb5.650.024	nero55	3500K	70°	2
Vb5.650.030	argento hacca	3500K	70°	2
Vb5.650.036	biancoV	3500K	70°	2

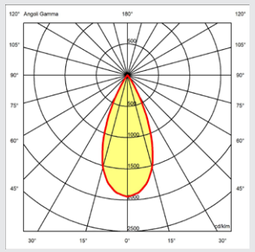
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	24.8	1680	12.5	134
					700	25.5	2280	17.7	129
					1050	26.1	3183	27.4	116
mn3597p2	vita media · average life 80000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

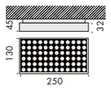


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ>65° < 1000cd/m²
Lmγ>45° < 6000cd/m²



mn soffitto 02 130X250 a.i. h.45		240V 50/60Hz		IP40			
Vb5.650.163	nero55	on-off			2700K	44°	2
Vb5.650.169	argento hacca	on-off			2700K	44°	2
Vb5.650.175	biancoV	on-off			2700K	44°	2
Vb5.650.307	nero55	dali			2700K	44°	2
Vb5.650.313	argento hacca	dali			2700K	44°	2
Vb5.650.319	biancoV	dali			2700K	44°	2
Vb5.650.451	nero55	casambi			2700K	44°	2
Vb5.650.457	argento hacca	casambi			2700K	44°	2
Vb5.650.463	biancoV	casambi			2700K	44°	2

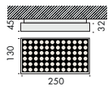
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	1050	26.1	2922	27.4	107
mn2797p2	vita media · average life 80000 h L90 B10								

Vb5.650.164	nero55	on-off	3000K	44°	2
Vb5.650.170	argento hacca	on-off	3000K	44°	2
Vb5.650.176	biancoV	on-off	3000K	44°	2
Vb5.650.308	nero55	dali	3000K	44°	2
Vb5.650.314	argento hacca	dali	3000K	44°	2
Vb5.650.320	biancoV	dali	3000K	44°	2
Vb5.650.452	nero55	casambi	3000K	44°	2
Vb5.650.458	argento hacca	casambi	3000K	44°	2
Vb5.650.464	biancoV	casambi	3000K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	26.1	3096	27.4	113
mn3097p2	vita media · average life 80000 h L90 B10								

Vb5.650.165	nero55	on-off	3500K	44°	2
Vb5.650.171	argento hacca	on-off	3500K	44°	2
Vb5.650.177	biancoV	on-off	3500K	44°	2
Vb5.650.309	nero55	dali	3500K	44°	2
Vb5.650.315	argento hacca	dali	3500K	44°	2
Vb5.650.321	biancoV	dali	3500K	44°	2
Vb5.650.453	nero55	casambi	3500K	44°	2
Vb5.650.459	argento hacca	casambi	3500K	44°	2
Vb5.650.465	biancoV	casambi	3500K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	26.1	3183	27.4	116
mn3597p2	vita media · average life 80000 h L90 B10								



mn soffitto 02 130X250 a.i. h.45		240V 50/60Hz		IP40			
Vb5.650.166	nero55	on-off			2700K	70°	2
Vb5.650.172	argento hacca	on-off			2700K	70°	2
Vb5.650.178	biancoV	on-off			2700K	70°	2
Vb5.650.310	nero55	dali			2700K	70°	2
Vb5.650.316	argento hacca	dali			2700K	70°	2
Vb5.650.322	biancoV	dali			2700K	70°	2
Vb5.650.454	nero55	casambi			2700K	70°	2
Vb5.650.460	argento hacca	casambi			2700K	70°	2
Vb5.650.466	biancoV	casambi			2700K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	1050	26.1	2922	27.4	107
mn2797p2	vita media · average life 80000 h L90 B10								

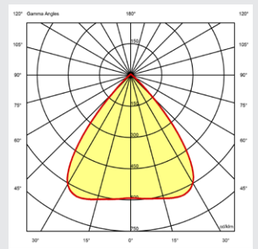
Vb5.650.167	nero55	on-off	3000K	70°	2
Vb5.650.173	argento hacca	on-off	3000K	70°	2
Vb5.650.179	biancoV	on-off	3000K	70°	2
Vb5.650.311	nero55	dali	3000K	70°	2
Vb5.650.317	argento hacca	dali	3000K	70°	2
Vb5.650.323	biancoV	dali	3000K	70°	2
Vb5.650.455	nero55	casambi	3000K	70°	2
Vb5.650.461	argento hacca	casambi	3000K	70°	2
Vb5.650.467	biancoV	casambi	3000K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	26.1	3096	27.4	113
mn3097p2	vita media · average life 80000 h L90 B10								

Vb5.650.168	nero55	on-off	3500K	70°	2
Vb5.650.174	argento hacca	on-off	3500K	70°	2
Vb5.650.180	biancoV	on-off	3500K	70°	2
Vb5.650.312	nero55	dali	3500K	70°	2
Vb5.650.318	argento hacca	dali	3500K	70°	2
Vb5.650.324	biancoV	dali	3500K	70°	2
Vb5.650.456	nero55	casambi	3500K	70°	2
Vb5.650.462	argento hacca	casambi	3500K	70°	2
Vb5.650.468	biancoV	casambi	3500K	70°	2

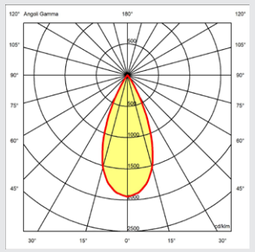
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	26.1	3183	27.4	116
mn3597p2	vita media · average life 80000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

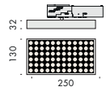


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ >65° < 1000cd/m²
Lmγ >45° < 6000cd/m²



mn adattatore A1 02 130X250 h.32 48Vdc IP40

Vb7.650.349	nero55 · nero	on-off	2700K	44°	2
Vb7.650.355	argento hacca · nero	on-off	2700K	44°	2
Vb7.650.361	biancoV · nero	on-off	2700K	44°	2
Vb7.650.457	nero55 · nero	casambi	2700K	44°	2
Vb7.650.463	argento hacca · nero	casambi	2700K	44°	2
Vb7.650.469	biancoV · nero	casambi	2700K	44°	2

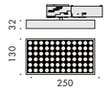
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	1050	26.1	2922	27.4	107
mn2797p2	vita media · average life 80000 h L90 B10								

Vb7.650.350	nero55 · nero	on-off	3000K	44°	2
Vb7.650.356	argento hacca · nero	on-off	3000K	44°	2
Vb7.650.362	biancoV · nero	on-off	3000K	44°	2
Vb7.650.458	nero55 · nero	casambi	3000K	44°	2
Vb7.650.464	argento hacca · nero	casambi	3000K	44°	2
Vb7.650.470	biancoV · nero	casambi	3000K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	26.1	3096	27.4	113
mn3097p2	vita media · average life 80000 h L90 B10								

Vb7.650.351	nero55 · nero	on-off	3500K	44°	2
Vb7.650.357	argento hacca · nero	on-off	3500K	44°	2
Vb7.650.363	biancoV · nero	on-off	3500K	44°	2
Vb7.650.459	nero55 · nero	casambi	3500K	44°	2
Vb7.650.465	argento hacca · nero	casambi	3500K	44°	2
Vb7.650.471	biancoV · nero	casambi	3500K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	26.1	3183	27.4	116
mn3597p2	vita media · average life 80000 h L90 B10								



mn adattatore A1 02 130X250 h.32 48Vdc IP40

Vb7.650.352	nero55 · nero	on-off	2700K	70°	2
Vb7.650.358	argento hacca · nero	on-off	2700K	70°	2
Vb7.650.364	biancoV · nero	on-off	2700K	70°	2
Vb7.650.460	nero55 · nero	casambi	2700K	70°	2
Vb7.650.466	argento hacca · nero	casambi	2700K	70°	2
Vb7.650.472	biancoV · nero	casambi	2700K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	1050	26.1	2922	27.4	107
mn2797p2	vita media · average life 80000 h L90 B10								

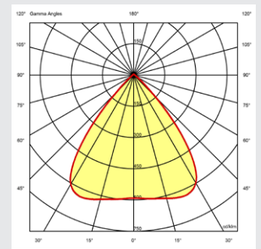
Vb7.650.353	nero55 · nero	on-off	3000K	70°	2
Vb7.650.359	argento hacca · nero	on-off	3000K	70°	2
Vb7.650.365	biancoV · nero	on-off	3000K	70°	2
Vb7.650.461	nero55 · nero	casambi	3000K	70°	2
Vb7.650.467	argento hacca · nero	casambi	3000K	70°	2
Vb7.650.473	biancoV · nero	casambi	3000K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	26.1	3096	27.4	113
mn3097p2	vita media · average life 80000 h L90 B10								

Vb7.650.354	nero55 · nero	on-off	3500K	70°	2
Vb7.650.360	argento hacca · nero	on-off	3500K	70°	2
Vb7.650.366	biancoV · nero	on-off	3500K	70°	2
Vb7.650.462	nero55 · nero	casambi	3500K	70°	2
Vb7.650.468	argento hacca · nero	casambi	3500K	70°	2
Vb7.650.474	biancoV · nero	casambi	3500K	70°	2

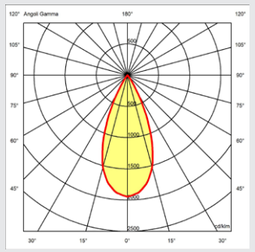
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	26.1	3183	27.4	116
mn3597p2	vita media · average life 80000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

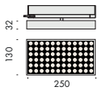


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ >65° < 1000cd/m²
Lmγ >45° < 6000cd/m²



mn adattatore VbB 02 130x250 h.32		240V 50/60Hz		IP40			
Vb7.650.019	nero55 · nero	on-off		2700K	44°		2
Vb7.650.025	argento hacca · nero	on-off		2700K	44°		2
Vb7.650.031	biancoV · bianco	on-off		2700K	44°		2
Vb7.650.127	nero55 · nero	dali		2700K	44°		2
Vb7.650.133	argento hacca · nero	dali		2700K	44°		2
Vb7.650.139	biancoV · bianco	dali		2700K	44°		2
Vb7.650.235	nero55 · nero	casambi		2700K	44°		2
Vb7.650.241	argento hacca · nero	casambi		2700K	44°		2
Vb7.650.247	biancoV · bianco	casambi		2700K	44°		2

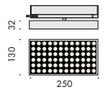
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	1050	26.1	2922	27.4	107
mn2797p2	vita media · average life 80000 h L90 B10								

Vb7.650.020	nero55 · nero	on-off	3000K	44°		2
Vb7.650.026	argento hacca · nero	on-off	3000K	44°		2
Vb7.650.032	biancoV · bianco	on-off	3000K	44°		2
Vb7.650.128	nero55 · nero	dali	3000K	44°		2
Vb7.650.134	argento hacca · nero	dali	3000K	44°		2
Vb7.650.140	biancoV · bianco	dali	3000K	44°		2
Vb7.650.236	nero55 · nero	casambi	3000K	44°		2
Vb7.650.242	argento hacca · nero	casambi	3000K	44°		2
Vb7.650.248	biancoV · bianco	casambi	3000K	44°		2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	26.1	3096	27.4	113
mn3097p2	vita media · average life 80000 h L90 B10								

Vb7.650.021	nero55 · nero	on-off	3500K	44°		2
Vb7.650.027	argento hacca · nero	on-off	3500K	44°		2
Vb7.650.033	biancoV · bianco	on-off	3500K	44°		2
Vb7.650.129	nero55 · nero	dali	3500K	44°		2
Vb7.650.135	argento hacca · nero	dali	3500K	44°		2
Vb7.650.141	biancoV · bianco	dali	3500K	44°		2
Vb7.650.237	nero55 · nero	casambi	3500K	44°		2
Vb7.650.243	argento hacca · nero	casambi	3500K	44°		2
Vb7.650.249	biancoV · bianco	casambi	3500K	44°		2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	26.1	3183	27.4	116
mn3597p2	vita media · average life 80000 h L90 B10								



mn adattatore VbB 02 130x250 h.32		240V 50/60Hz		IP40			
Vb7.650.022	nero55 · nero	on-off		2700K	70°		2
Vb7.650.028	argento hacca · nero	on-off		2700K	70°		2
Vb7.650.034	biancoV · bianco	on-off		2700K	70°		2
Vb7.650.130	nero55 · nero	dali		2700K	70°		2
Vb7.650.136	argento hacca · nero	dali		2700K	70°		2
Vb7.650.142	biancoV · bianco	dali		2700K	70°		2
Vb7.650.238	nero55 · nero	casambi		2700K	70°		2
Vb7.650.244	argento hacca · nero	casambi		2700K	70°		2
Vb7.650.250	biancoV · bianco	casambi		2700K	70°		2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	1050	26.1	2922	27.4	107
mn2797p2	vita media · average life 80000 h L90 B10								

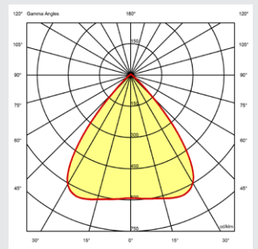
Vb7.650.023	nero55 · nero	on-off	3000K	70°		2
Vb7.650.029	argento hacca · nero	on-off	3000K	70°		2
Vb7.650.035	biancoV · bianco	on-off	3000K	70°		2
Vb7.650.131	nero55 · nero	dali	3000K	70°		2
Vb7.650.137	argento hacca · nero	dali	3000K	70°		2
Vb7.650.143	biancoV · bianco	dali	3000K	70°		2
Vb7.650.239	nero55 · nero	casambi	3000K	70°		2
Vb7.650.245	argento hacca · nero	casambi	3000K	70°		2
Vb7.650.251	biancoV · bianco	casambi	3000K	70°		2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	26.1	3096	27.4	113
mn3097p2	vita media · average life 80000 h L90 B10								

Vb7.650.024	nero55 · nero	on-off	3500K	70°		2
Vb7.650.030	argento hacca · nero	on-off	3500K	70°		2
Vb7.650.036	biancoV · bianco	on-off	3500K	70°		2
Vb7.650.132	nero55 · nero	dali	3500K	70°		2
Vb7.650.138	argento hacca · nero	dali	3500K	70°		2
Vb7.650.144	biancoV · bianco	dali	3500K	70°		2
Vb7.650.240	nero55 · nero	casambi	3500K	70°		2
Vb7.650.246	argento hacca · nero	casambi	3500K	70°		2
Vb7.650.252	biancoV · bianco	casambi	3500K	70°		2

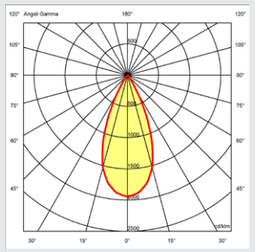
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	26.1	3183	27.4	116
mn3597p2	vita media · average life 80000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

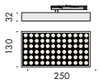


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ >65° < 1000cd/m²
Lmγ >45° < 6000cd/m²



mn adattatore traccia sistema 02 130X250 h.32		24Vdc	IP40			
Vb7.650.569	nero55 · nero	pwm	2700K	44°	2	
Vb7.650.575	argento hacca · nero	pwm	2700K	44°	2	
Vb7.650.581	my bianco · nero	pwm	2700K	44°	2	
Vb7.650.641	nero55 · nero	casambi	2700K	44°	2	
Vb7.650.647	argento hacca · nero	casambi	2700K	44°	2	
Vb7.650.653	my bianco · nero	casambi	2700K	44°	2	

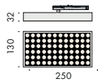
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	700	16.7	1440	11.7	123
mn2797plv2	vita media · average life 70000 h L90 B10								

Vb7.650.570	nero55 · nero	pwm	3000K	44°	2	
Vb7.650.576	argento hacca · nero	pwm	3000K	44°	2	
Vb7.650.582	my bianco · nero	pwm	3000K	44°	2	
Vb7.650.642	nero55 · nero	casambi	3000K	44°	2	
Vb7.650.648	argento hacca · nero	casambi	3000K	44°	2	
Vb7.650.654	my bianco · nero	casambi	3000K	44°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	16.7	1525	11.7	130
mn3097plv2	vita media · average life 70000 h L90 B10								

Vb7.650.571	nero55 · nero	pwm	3500K	44°	2	
Vb7.650.577	argento hacca · nero	pwm	3500K	44°	2	
Vb7.650.583	my bianco · nero	pwm	3500K	44°	2	
Vb7.650.643	nero55 · nero	casambi	3500K	44°	2	
Vb7.650.649	argento hacca · nero	casambi	3500K	44°	2	
Vb7.650.655	my bianco · nero	casambi	3500K	44°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	16.7	1568	11.7	134
mn3597plv2	vita media · average life 70000 h L90 B10								



mn adattatore traccia sistema 02 130X250 h.32		24Vdc	IP40			
Vb7.650.572	nero55 · nero	pwm	2700K	70°	2	
Vb7.650.578	argento hacca · nero	pwm	2700K	70°	2	
Vb7.650.584	my bianco · nero	pwm	2700K	70°	2	
Vb7.650.644	nero55 · nero	casambi	2700K	70°	2	
Vb7.650.650	argento hacca · nero	casambi	2700K	70°	2	
Vb7.650.656	my bianco · nero	casambi	2700K	70°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	700	16.7	1440	11.7	123
mn2797plv2	vita media · average life 70000 h L90 B10								

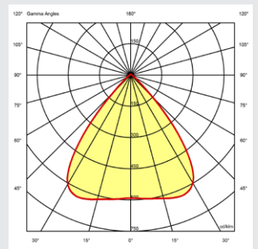
Vb7.650.573	nero55 · nero	pwm	3000K	70°	2	
Vb7.650.579	argento hacca · nero	pwm	3000K	70°	2	
Vb7.650.585	my bianco · nero	pwm	3000K	70°	2	
Vb7.650.645	nero55 · nero	casambi	3000K	70°	2	
Vb7.650.651	argento hacca · nero	casambi	3000K	70°	2	
Vb7.650.657	my bianco · nero	casambi	3000K	70°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	16.7	1525	11.7	130
mn3097plv2	vita media · average life 70000 h L90 B10								

Vb7.650.574	nero55 · nero	pwm	3500K	70°	2	
Vb7.650.580	argento hacca · nero	pwm	3500K	70°	2	
Vb7.650.586	my bianco · nero	pwm	3500K	70°	2	
Vb7.650.646	nero55 · nero	casambi	3500K	70°	2	
Vb7.650.652	argento hacca · nero	casambi	3500K	70°	2	
Vb7.650.658	my bianco · nero	casambi	3500K	70°	2	

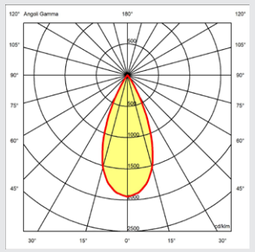
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	16.7	1568	11.7	134
mn3597plv2	vita media · average life 70000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

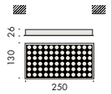


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ>65° < 1000cd/m²
Lmγ>45° < 6000cd/m²



mn incasso 02 130X250 h.26 IP40

Vb6.650.019	nero55	2700K	44°	2
Vb6.650.025	argento hacca	2700K	44°	2
Vb6.650.031	biancoV	2700K	44°	2

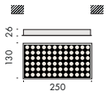
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	500	24.8	1542	12.5	123
					700	25.5	2094	17.7	118
					1050	26.1	2922	27.4	107
mn2797p2	vita media · average life 80000 h L90 B10								

Vb6.650.020	nero55	3000K	44°	2
Vb6.650.026	argento hacca	3000K	44°	2
Vb6.650.032	biancoV	3000K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	24.8	1634	12.5	131
					700	25.5	2218	17.7	125
					1050	26.1	3096	27.4	113
mn3097p2	vita media · average life 80000 h L90 B10								

Vb6.650.021	nero55	3500K	44°	2
Vb6.650.027	argento hacca	3500K	44°	2
Vb6.650.033	biancoV	3500K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	24.8	1680	12.5	134
					700	25.5	2280	17.7	129
					1050	26.1	3183	27.4	116
mn3597p2	vita media · average life 80000 h L90 B10								



mn incasso 02 130X250 h.26 IP40

Vb6.650.022	nero55	2700K	70°	2
Vb6.650.028	argento hacca	2700K	70°	2
Vb6.650.034	biancoV	2700K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	500	24.8	1542	12.5	123
					700	25.5	2094	17.7	118
					1050	26.1	2922	27.4	107
mn2797p2	vita media · average life 80000 h L90 B10								

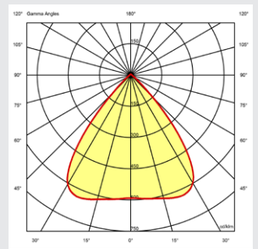
Vb6.650.023	nero55	3000K	70°	2
Vb6.650.029	argento hacca	3000K	70°	2
Vb6.650.035	biancoV	3000K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	24.8	1634	12.5	131
					700	25.5	2218	17.7	125
					1050	26.1	3096	27.4	113
mn3097p2	vita media · average life 80000 h L90 B10								

Vb6.650.024	nero55	3500K	70°	2
Vb6.650.030	argento hacca	3500K	70°	2
Vb6.650.036	biancoV	3500K	70°	2

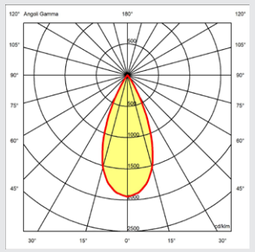
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	24.8	1680	12.5	134
					700	25.5	2280	17.7	129
					1050	26.1	3183	27.4	116
mn3597p2	vita media · average life 80000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

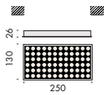


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ >65° < 1000cd/m²
Lmγ >45° < 6000cd/m²



mn incasso 02 130X250 a.i. h.26		240V 50/60Hz		IP40			
Vb6.650.145	nero55	on-off		2700K	44°		2
Vb6.650.151	argento hacca	on-off		2700K	44°		2
Vb6.650.157	biancoV	on-off		2700K	44°		2
Vb6.650.271	nero55	dali		2700K	44°		2
Vb6.650.277	argento hacca	dali		2700K	44°		2
Vb6.650.283	biancoV	dali		2700K	44°		2
Vb6.650.397	nero55	casambi		2700K	44°		2
Vb6.650.403	argento hacca	casambi		2700K	44°		2
Vb6.650.409	biancoV	casambi		2700K	44°		2

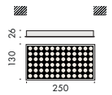
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	1050	26.1	2922	27.4	107
mn2797p2	vita media · average life 80000 h L90 B10								

Vb6.650.146	nero55	on-off	3000K	44°		2
Vb6.650.152	argento hacca	on-off	3000K	44°		2
Vb6.650.158	biancoV	on-off	3000K	44°		2
Vb6.650.272	nero55	dali	3000K	44°		2
Vb6.650.278	argento hacca	dali	3000K	44°		2
Vb6.650.284	biancoV	dali	3000K	44°		2
Vb6.650.398	nero55	casambi	3000K	44°		2
Vb6.650.404	argento hacca	casambi	3000K	44°		2
Vb6.650.410	biancoV	casambi	3000K	44°		2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	26.1	3096	27.4	113
mn3097p2	vita media · average life 80000 h L90 B10								

Vb6.650.147	nero55	on-off	3500K	44°		2
Vb6.650.153	argento hacca	on-off	3500K	44°		2
Vb6.650.159	biancoV	on-off	3500K	44°		2
Vb6.650.273	nero55	dali	3500K	44°		2
Vb6.650.279	argento hacca	dali	3500K	44°		2
Vb6.650.285	biancoV	dali	3500K	44°		2
Vb6.650.399	nero55	casambi	3500K	44°		2
Vb6.650.405	argento hacca	casambi	3500K	44°		2
Vb6.650.411	biancoV	casambi	3500K	44°		2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	26.1	3183	27.4	116
mn3597p2	vita media · average life 80000 h L90 B10								



mn incasso 02 130X250 a.i. h.26		240V 50/60Hz		IP40			
Vb6.650.148	nero55	on-off		2700K	70°		2
Vb6.650.154	argento hacca	on-off		2700K	70°		2
Vb6.650.160	biancoV	on-off		2700K	70°		2
Vb6.650.274	nero55	dali		2700K	70°		2
Vb6.650.280	argento hacca	dali		2700K	70°		2
Vb6.650.286	biancoV	dali		2700K	70°		2
Vb6.650.400	nero55	casambi		2700K	70°		2
Vb6.650.406	argento hacca	casambi		2700K	70°		2
Vb6.650.412	biancoV	casambi		2700K	70°		2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	1050	26.1	2922	27.4	107
mn2797p2	vita media · average life 80000 h L90 B10								

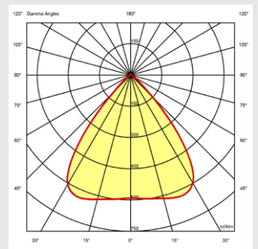
Vb6.650.149	nero55	on-off	3000K	70°		2
Vb6.650.155	argento hacca	on-off	3000K	70°		2
Vb6.650.161	biancoV	on-off	3000K	70°		2
Vb6.650.275	nero55	dali	3000K	70°		2
Vb6.650.281	argento hacca	dali	3000K	70°		2
Vb6.650.287	biancoV	dali	3000K	70°		2
Vb6.650.401	nero55	casambi	3000K	70°		2
Vb6.650.407	argento hacca	casambi	3000K	70°		2
Vb6.650.413	biancoV	casambi	3000K	70°		2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	26.1	3096	27.4	113
mn3097p2	vita media · average life 80000 h L90 B10								

Vb6.650.150	nero55	on-off	3500K	70°		2
Vb6.650.156	argento hacca	on-off	3500K	70°		2
Vb6.650.162	biancoV	on-off	3500K	70°		2
Vb6.650.276	nero55	dali	3500K	70°		2
Vb6.650.282	argento hacca	dali	3500K	70°		2
Vb6.650.288	biancoV	dali	3500K	70°		2
Vb6.650.402	nero55	casambi	3500K	70°		2
Vb6.650.408	argento hacca	casambi	3500K	70°		2
Vb6.650.414	biancoV	casambi	3500K	70°		2

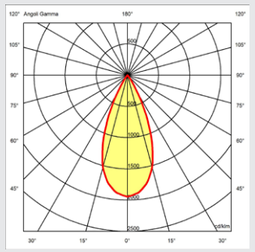
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	26.1	3183	27.4	116
mn3597p2	vita media · average life 80000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

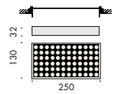


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ >65° < 1000cd/m²
Lmγ >45° < 6000cd/m²



mn scomparsa totale 02 130X250 h.32 IP40

Vb6.650.619	nero55	2700K	44°	2
Vb6.650.625	argento hacca	2700K	44°	2
Vb6.650.631	biancoV	2700K	44°	2

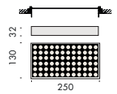
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	500	24.8	1542	12.5	123
					700	25.5	2094	17.7	118
					1050	26.1	2922	27.4	107
mn2797p2	vita media · average life 80000 h L90 B10								

Vb6.650.620	nero55	3000K	44°	2
Vb6.650.626	argento hacca	3000K	44°	2
Vb6.650.632	biancoV	3000K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	24.8	1634	12.5	131
					700	25.5	2218	17.7	125
					1050	26.1	3096	27.4	113
mn3097p2	vita media · average life 80000 h L90 B10								

Vb6.650.621	nero55	3500K	44°	2
Vb6.650.627	argento hacca	3500K	44°	2
Vb6.650.633	biancoV	3500K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	24.8	1680	12.5	134
					700	25.5	2280	17.7	129
					1050	26.1	3183	27.4	116
mn3597p2	vita media · average life 80000 h L90 B10								



mn scomparsa totale 02 130X250 h.32 IP40

Vb6.650.622	nero55	2700K	70°	2
Vb6.650.628	argento hacca	2700K	70°	2
Vb6.650.634	biancoV	2700K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	500	24.8	1542	12.5	123
					700	25.5	2094	17.7	118
					1050	26.1	2922	27.4	107
mn2797p2	vita media · average life 80000 h L90 B10								

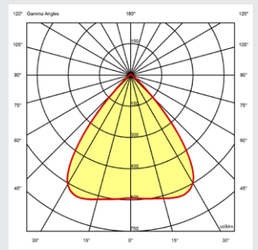
Vb6.650.623	nero55	3000K	70°	2
Vb6.650.629	argento hacca	3000K	70°	2
Vb6.650.635	biancoV	3000K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	24.8	1634	12.5	131
					700	25.5	2218	17.7	125
					1050	26.1	3096	27.4	113
mn3097p2	vita media · average life 80000 h L90 B10								

Vb6.650.624	nero55	3500K	70°	2
Vb6.650.630	argento hacca	3500K	70°	2
Vb6.650.636	biancoV	3500K	70°	2

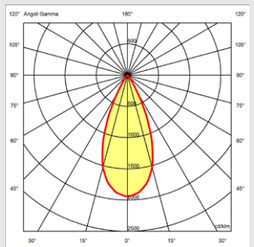
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	24.8	1680	12.5	134
					700	25.5	2280	17.7	129
					1050	26.1	3183	27.4	116
mn3597p2	vita media · average life 80000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

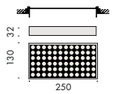


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ >65° < 1000cd/m²
Lmγ >45° < 6000cd/m²



mn scomparsa totale 02 130X250 a.i. h.32	240V 50/60Hz			IP40		
Vb6.650.763	nero55	on-off	2700K	44°	2	
Vb6.650.769	argento hacca	on-off	2700K	44°	2	
Vb6.650.775	biancoV	on-off	2700K	44°	2	
Vb6.650.907	nero55	dali	2700K	44°	2	
Vb6.650.913	argento hacca	dali	2700K	44°	2	
Vb6.650.919	biancoV	dali	2700K	44°	2	
Vb6.650.1051	nero55	casambi	2700K	44°	2	
Vb6.650.1057	argento hacca	casambi	2700K	44°	2	
Vb6.650.1063	biancoV	casambi	2700K	44°	2	

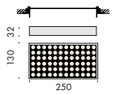
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	1050	26.1	2922	27.4	107
mn2797p2	vita media · average life 80000 h L90 B10								

Vb6.650.764	nero55	on-off	3000K	44°	2	
Vb6.650.770	argento hacca	on-off	3000K	44°	2	
Vb6.650.776	biancoV	on-off	3000K	44°	2	
Vb6.650.908	nero55	dali	3000K	44°	2	
Vb6.650.914	argento hacca	dali	3000K	44°	2	
Vb6.650.920	biancoV	dali	3000K	44°	2	
Vb6.650.1052	nero55	casambi	3000K	44°	2	
Vb6.650.1058	argento hacca	casambi	3000K	44°	2	
Vb6.650.1064	biancoV	casambi	3000K	44°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	26.1	3096	27.4	113
mn3097p2	vita media · average life 80000 h L90 B10								

Vb6.650.765	nero55	on-off	3500K	44°	2	
Vb6.650.771	argento hacca	on-off	3500K	44°	2	
Vb6.650.777	biancoV	on-off	3500K	44°	2	
Vb6.650.909	nero55	dali	3500K	44°	2	
Vb6.650.915	argento hacca	dali	3500K	44°	2	
Vb6.650.921	biancoV	dali	3500K	44°	2	
Vb6.650.1053	nero55	casambi	3500K	44°	2	
Vb6.650.1059	argento hacca	casambi	3500K	44°	2	
Vb6.650.1065	biancoV	casambi	3500K	44°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	26.1	3183	27.4	116
mn3597p2	vita media · average life 80000 h L90 B10								



mn scomparsa totale 02 130X250 a.i. h.32	240V 50/60Hz			IP40		
Vb6.650.766	nero55	on-off	2700K	70°	2	
Vb6.650.772	argento hacca	on-off	2700K	70°	2	
Vb6.650.778	biancoV	on-off	2700K	70°	2	
Vb6.650.910	nero55	dali	2700K	70°	2	
Vb6.650.916	argento hacca	dali	2700K	70°	2	
Vb6.650.922	biancoV	dali	2700K	70°	2	
Vb6.650.1054	nero55	casambi	2700K	70°	2	
Vb6.650.1060	argento hacca	casambi	2700K	70°	2	
Vb6.650.1066	biancoV	casambi	2700K	70°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	1050	26.1	2922	27.4	107
mn2797p2	vita media · average life 80000 h L90 B10								

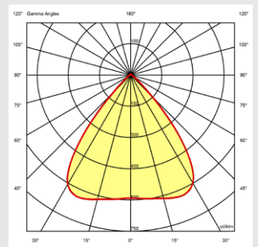
Vb6.650.767	nero55	on-off	3000K	70°	2	
Vb6.650.773	argento hacca	on-off	3000K	70°	2	
Vb6.650.779	biancoV	on-off	3000K	70°	2	
Vb6.650.911	nero55	dali	3000K	70°	2	
Vb6.650.917	argento hacca	dali	3000K	70°	2	
Vb6.650.923	biancoV	dali	3000K	70°	2	
Vb6.650.1055	nero55	casambi	3000K	70°	2	
Vb6.650.1061	argento hacca	casambi	3000K	70°	2	
Vb6.650.1067	biancoV	casambi	3000K	70°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	26.1	3096	27.4	113
mn3097p2	vita media · average life 80000 h L90 B10								

Vb6.650.768	nero55	on-off	3500K	70°	2	
Vb6.650.774	argento hacca	on-off	3500K	70°	2	
Vb6.650.780	biancoV	on-off	3500K	70°	2	
Vb6.650.912	nero55	dali	3500K	70°	2	
Vb6.650.918	argento hacca	dali	3500K	70°	2	
Vb6.650.924	biancoV	dali	3500K	70°	2	
Vb6.650.1056	nero55	casambi	3500K	70°	2	
Vb6.650.1062	argento hacca	casambi	3500K	70°	2	
Vb6.650.1068	biancoV	casambi	3500K	70°	2	

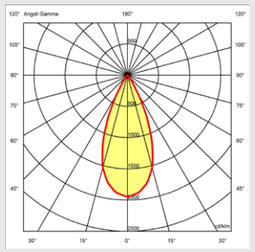
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	26.1	3183	27.4	116
mn3597p2	vita media · average life 80000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

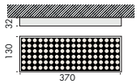


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ>65° < 1000cd/m²
Lmγ>45° < 6000cd/m²



mn soffitto 03 130X370 h.32 IP40

Vb5.650.037	nero55	2700K	44°	2
Vb5.650.043	argento hacca	2700K	44°	2
Vb5.650.049	biancoV	2700K	44°	2

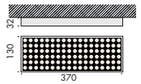
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	700	24.9	2161	17.5	123
					1050	25.3	3140	26.6	118
					1400	26.1	3897	36.5	107
mn2797p3	vita media · average life 80000 h L90 B10								

Vb5.650.038	nero55	3000K	44°	2
Vb5.650.044	argento hacca	3000K	44°	2
Vb5.650.050	biancoV	3000K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	24.9	2289	17.5	131
					1050	25.3	3326	26.6	125
					1400	26.1	4128	36.5	113
mn3097p3	vita media · average life 80000 h L90 B10								

Vb5.650.039	nero55	3500K	44°	2
Vb5.650.045	argento hacca	3500K	44°	2
Vb5.650.051	biancoV	3500K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	24.9	2353	17.5	134
					1050	25.3	3419	26.6	129
					1400	26.1	4244	36.5	116
mn3597p3	vita media · average life 80000 h L90 B10								



mn soffitto 03 130X370 h.32 IP40

Vb5.650.040	nero55	2700K	70°	2
Vb5.650.046	argento hacca	2700K	70°	2
Vb5.650.052	biancoV	2700K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	700	24.9	2161	17.5	123
					1050	25.3	3140	26.6	118
					1400	26.1	3897	36.5	107
mn2797p3	vita media · average life 80000 h L90 B10								

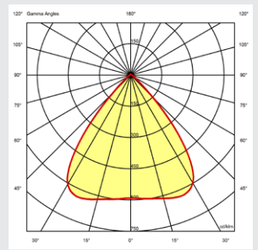
Vb5.650.041	nero55	3000K	70°	2
Vb5.650.047	argento hacca	3000K	70°	2
Vb5.650.053	biancoV	3000K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	24.9	2289	17.5	131
					1050	25.3	3326	26.6	125
					1400	26.1	4128	36.5	113
mn3097p3	vita media · average life 80000 h L90 B10								

Vb5.650.042	nero55	3500K	70°	2
Vb5.650.048	argento hacca	3500K	70°	2
Vb5.650.054	biancoV	3500K	70°	2

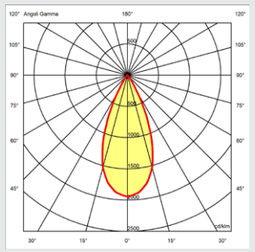
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	24.9	2353	17.5	134
					1050	25.3	3419	26.6	129
					1400	26.1	4244	36.5	116
mn3597p3	vita media · average life 80000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

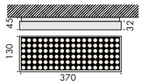


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ >65° < 1000cd/m²
Lmγ >45° < 6000cd/m²



mn soffitto 03 130x370 a.i. h.45		240V 50/60Hz		IP40			
Vb5.650.181	nero55	on-off		2700K	44°		2
Vb5.650.187	argento hacca	on-off		2700K	44°		2
Vb5.650.193	biancoV	on-off		2700K	44°		2
Vb5.650.325	nero55	dali		2700K	44°		2
Vb5.650.331	argento hacca	dali		2700K	44°		2
Vb5.650.337	biancoV	dali		2700K	44°		2
Vb5.650.469	nero55	casambi		2700K	44°		2
Vb5.650.475	argento hacca	casambi		2700K	44°		2
Vb5.650.481	biancoV	casambi		2700K	44°		2

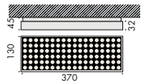
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	1050	25.3	3140	26.6	118
mn2797p3	vita media · average life 80000 h L90 B10								

Vb5.650.182	nero55	on-off	3000K	44°		2
Vb5.650.188	argento hacca	on-off	3000K	44°		2
Vb5.650.194	biancoV	on-off	3000K	44°		2
Vb5.650.326	nero55	dali	3000K	44°		2
Vb5.650.332	argento hacca	dali	3000K	44°		2
Vb5.650.338	biancoV	dali	3000K	44°		2
Vb5.650.470	nero55	casambi	3000K	44°		2
Vb5.650.476	argento hacca	casambi	3000K	44°		2
Vb5.650.482	biancoV	casambi	3000K	44°		2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	25.3	3326	26.6	125
mn3097p3	vita media · average life 80000 h L90 B10								

Vb5.650.183	nero55	on-off	3500K	44°		2
Vb5.650.189	argento hacca	on-off	3500K	44°		2
Vb5.650.195	biancoV	on-off	3500K	44°		2
Vb5.650.327	nero55	dali	3500K	44°		2
Vb5.650.333	argento hacca	dali	3500K	44°		2
Vb5.650.339	biancoV	dali	3500K	44°		2
Vb5.650.471	nero55	casambi	3500K	44°		2
Vb5.650.477	argento hacca	casambi	3500K	44°		2
Vb5.650.483	biancoV	casambi	3500K	44°		2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	25.3	3419	26.6	129
mn3597p3	vita media · average life 80000 h L90 B10								



mn soffitto 03 130x370 a.i. h.45		240V 50/60Hz		IP40			
Vb5.650.184	nero55	on-off		2700K	70°		2
Vb5.650.190	argento hacca	on-off		2700K	70°		2
Vb5.650.196	biancoV	on-off		2700K	70°		2
Vb5.650.328	nero55	dali		2700K	70°		2
Vb5.650.334	argento hacca	dali		2700K	70°		2
Vb5.650.340	biancoV	dali		2700K	70°		2
Vb5.650.472	nero55	casambi		2700K	70°		2
Vb5.650.478	argento hacca	casambi		2700K	70°		2
Vb5.650.484	biancoV	casambi		2700K	70°		2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	1050	25.3	3140	26.6	118
mn2797p3	vita media · average life 80000 h L90 B10								

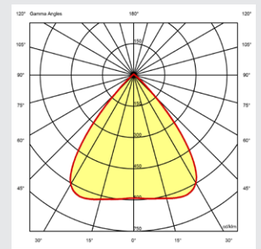
Vb5.650.185	nero55	on-off	3000K	70°		2
Vb5.650.191	argento hacca	on-off	3000K	70°		2
Vb5.650.197	biancoV	on-off	3000K	70°		2
Vb5.650.329	nero55	dali	3000K	70°		2
Vb5.650.335	argento hacca	dali	3000K	70°		2
Vb5.650.341	biancoV	dali	3000K	70°		2
Vb5.650.473	nero55	casambi	3000K	70°		2
Vb5.650.479	argento hacca	casambi	3000K	70°		2
Vb5.650.485	biancoV	casambi	3000K	70°		2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	25.3	3326	26.6	125
mn3097p3	vita media · average life 80000 h L90 B10								

Vb5.650.186	nero55	on-off	3500K	70°		2
Vb5.650.192	argento hacca	on-off	3500K	70°		2
Vb5.650.198	biancoV	on-off	3500K	70°		2
Vb5.650.330	nero55	dali	3500K	70°		2
Vb5.650.336	argento hacca	dali	3500K	70°		2
Vb5.650.342	biancoV	dali	3500K	70°		2
Vb5.650.474	nero55	casambi	3500K	70°		2
Vb5.650.480	argento hacca	casambi	3500K	70°		2
Vb5.650.486	biancoV	casambi	3500K	70°		2

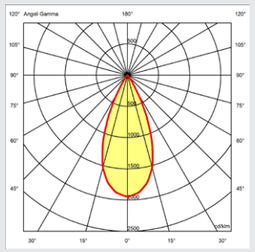
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	25.3	3419	26.6	129
mn3597p3	vita media · average life 80000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

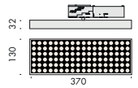


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ >65° < 1000cd/m²
Lmγ >45° < 6000cd/m²



mn adattatore A1 03 130x370 h.32			48Vdc	IP40		
Vb7.650.367	nero55 · nero	on-off	2700K	44°	2	
Vb7.650.373	argento hacca · nero	on-off	2700K	44°	2	
Vb7.650.379	biancoV · nero	on-off	2700K	44°	2	
Vb7.650.475	nero55 · nero	casambi	2700K	44°	2	
Vb7.650.481	argento hacca · nero	casambi	2700K	44°	2	
Vb7.650.487	biancoV · nero	casambi	2700K	44°	2	

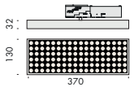
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	1050	25.3	3140	26.6	118
mn2797p3	vita media · average life 80000 h L90 B10								

Vb7.650.368	nero55 · nero	on-off	3000K	44°	2	
Vb7.650.374	argento hacca · nero	on-off	3000K	44°	2	
Vb7.650.380	biancoV · nero	on-off	3000K	44°	2	
Vb7.650.476	nero55 · nero	casambi	3000K	44°	2	
Vb7.650.482	argento hacca · nero	casambi	3000K	44°	2	
Vb7.650.488	biancoV · nero	casambi	3000K	44°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	25.3	3326	26.6	125
mn3097p3	vita media · average life 80000 h L90 B10								

Vb7.650.369	nero55 · nero	on-off	3500K	44°	2	
Vb7.650.375	argento hacca · nero	on-off	3500K	44°	2	
Vb7.650.381	biancoV · nero	on-off	3500K	44°	2	
Vb7.650.477	nero55 · nero	casambi	3500K	44°	2	
Vb7.650.483	argento hacca · nero	casambi	3500K	44°	2	
Vb7.650.489	biancoV · nero	casambi	3500K	44°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	25.3	3419	26.6	129
mn3597p3	vita media · average life 80000 h L90 B10								



mn adattatore A1 03 130x370 h.32			48Vdc	IP40		
Vb7.650.370	nero55 · nero	on-off	2700K	70°	2	
Vb7.650.376	argento hacca · nero	on-off	2700K	70°	2	
Vb7.650.382	biancoV · nero	on-off	2700K	70°	2	
Vb7.650.478	nero55 · nero	casambi	2700K	70°	2	
Vb7.650.484	argento hacca · nero	casambi	2700K	70°	2	
Vb7.650.490	biancoV · nero	casambi	2700K	70°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	1050	25.3	3140	26.6	118
mn2797p3	vita media · average life 80000 h L90 B10								

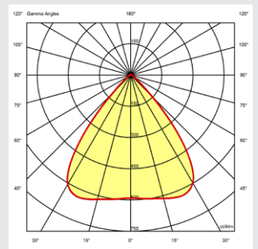
Vb7.650.371	nero55 · nero	on-off	3000K	70°	2	
Vb7.650.377	argento hacca · nero	on-off	3000K	70°	2	
Vb7.650.383	biancoV · nero	on-off	3000K	70°	2	
Vb7.650.479	nero55 · nero	casambi	3000K	70°	2	
Vb7.650.485	argento hacca · nero	casambi	3000K	70°	2	
Vb7.650.491	biancoV · nero	casambi	3000K	70°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	25.3	3326	26.6	125
mn3097p3	vita media · average life 80000 h L90 B10								

Vb7.650.372	nero55 · nero	on-off	3500K	70°	2	
Vb7.650.378	argento hacca · nero	on-off	3500K	70°	2	
Vb7.650.384	biancoV · nero	on-off	3500K	70°	2	
Vb7.650.480	nero55 · nero	casambi	3500K	70°	2	
Vb7.650.486	argento hacca · nero	casambi	3500K	70°	2	
Vb7.650.492	biancoV · nero	casambi	3500K	70°	2	

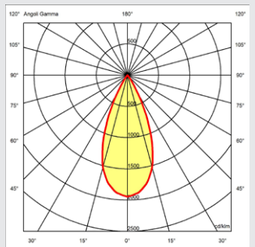
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	25.3	3419	26.6	129
mn3597p3	vita media · average life 80000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

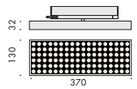


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ >65° < 1000cd/m²
Lmγ >45° < 6000cd/m²



mn adattatore VbB 03 130x370 h.32		240V 50/60Hz		IP40			
Vb7.650.037	nero55 · nero	on-off			2700K	44°	2
Vb7.650.043	argento hacca · nero	on-off			2700K	44°	2
Vb7.650.049	biancoV · bianco	on-off			2700K	44°	2
Vb7.650.145	nero55 · nero	dali			2700K	44°	2
Vb7.650.151	argento hacca · nero	dali			2700K	44°	2
Vb7.650.157	biancoV · bianco	dali			2700K	44°	2
Vb7.650.253	nero55 · nero	casambi			2700K	44°	2
Vb7.650.259	argento hacca · nero	casambi			2700K	44°	2
Vb7.650.265	biancoV · bianco	casambi			2700K	44°	2

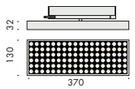
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	1050	25.3	3140	26.6	118
mn2797p3	vita media · average life 80000 h L90 B10								

Vb7.650.038	nero55 · nero	on-off			3000K	44°	2
Vb7.650.044	argento hacca · nero	on-off			3000K	44°	2
Vb7.650.050	biancoV · bianco	on-off			3000K	44°	2
Vb7.650.146	nero55 · nero	dali			3000K	44°	2
Vb7.650.152	argento hacca · nero	dali			3000K	44°	2
Vb7.650.158	biancoV · bianco	dali			3000K	44°	2
Vb7.650.254	nero55 · nero	casambi			3000K	44°	2
Vb7.650.260	argento hacca · nero	casambi			3000K	44°	2
Vb7.650.266	biancoV · bianco	casambi			3000K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	25.3	3326	26.6	125
mn3097p3	vita media · average life 80000 h L90 B10								

Vb7.650.039	nero55 · nero	on-off			3500K	44°	2
Vb7.650.045	argento hacca · nero	on-off			3500K	44°	2
Vb7.650.051	biancoV · bianco	on-off			3500K	44°	2
Vb7.650.147	nero55 · nero	dali			3500K	44°	2
Vb7.650.153	argento hacca · nero	dali			3500K	44°	2
Vb7.650.159	biancoV · bianco	dali			3500K	44°	2
Vb7.650.255	nero55 · nero	casambi			3500K	44°	2
Vb7.650.261	argento hacca · nero	casambi			3500K	44°	2
Vb7.650.267	biancoV · bianco	casambi			3500K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	25.3	3419	26.6	129
mn3597p3	vita media · average life 80000 h L90 B10								



mn adattatore VbB 03 130x370 h.32		240V 50/60Hz		IP40			
Vb7.650.040	nero55 · nero	on-off			2700K	70°	2
Vb7.650.046	argento hacca · nero	on-off			2700K	70°	2
Vb7.650.052	biancoV · bianco	on-off			2700K	70°	2
Vb7.650.148	nero55 · nero	dali			2700K	70°	2
Vb7.650.154	argento hacca · nero	dali			2700K	70°	2
Vb7.650.160	biancoV · bianco	dali			2700K	70°	2
Vb7.650.256	nero55 · nero	casambi			2700K	70°	2
Vb7.650.262	argento hacca · nero	casambi			2700K	70°	2
Vb7.650.268	biancoV · bianco	casambi			2700K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	1050	25.3	3140	26.6	118
mn2797p3	vita media · average life 80000 h L90 B10								

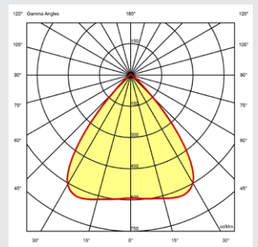
Vb7.650.041	nero55 · nero	on-off			3000K	70°	2
Vb7.650.047	argento hacca · nero	on-off			3000K	70°	2
Vb7.650.053	biancoV · bianco	on-off			3000K	70°	2
Vb7.650.149	nero55 · nero	dali			3000K	70°	2
Vb7.650.155	argento hacca · nero	dali			3000K	70°	2
Vb7.650.161	biancoV · bianco	dali			3000K	70°	2
Vb7.650.257	nero55 · nero	casambi			3000K	70°	2
Vb7.650.263	argento hacca · nero	casambi			3000K	70°	2
Vb7.650.269	biancoV · bianco	casambi			3000K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	25.3	3326	26.6	125
mn3097p3	vita media · average life 80000 h L90 B10								

Vb7.650.042	nero55 · nero	on-off			3500K	70°	2
Vb7.650.048	argento hacca · nero	on-off			3500K	70°	2
Vb7.650.054	biancoV · bianco	on-off			3500K	70°	2
Vb7.650.150	nero55 · nero	dali			3500K	70°	2
Vb7.650.156	argento hacca · nero	dali			3500K	70°	2
Vb7.650.162	biancoV · bianco	dali			3500K	70°	2
Vb7.650.258	nero55 · nero	casambi			3500K	70°	2
Vb7.650.264	argento hacca · nero	casambi			3500K	70°	2
Vb7.650.270	biancoV · bianco	casambi			3500K	70°	2

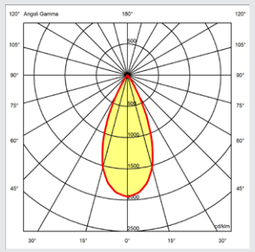
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	25.3	3419	26.6	129
mn3597p3	vita media · average life 80000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

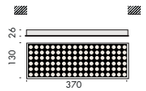


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ >65° < 1000cd/m²
Lmγ >45° < 6000cd/m²



mn incasso 03 130X370 h.26 IP40

Vb6.650.037	nero55	2700K	44°	2
Vb6.650.043	argento hacca	2700K	44°	2
Vb6.650.049	biancoV	2700K	44°	2

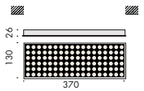
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	700	24.9	2161	17.5	123
					1050	25.3	3140	26.6	118
					1400	26.1	3897	36.5	107
mn2797p3	vita media · average life 80000 h L90 B10								

Vb6.650.038	nero55	3000K	44°	2
Vb6.650.044	argento hacca	3000K	44°	2
Vb6.650.050	biancoV	3000K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	24.9	2289	17.5	131
					1050	25.3	3326	26.6	125
					1400	26.1	4128	36.5	113
mn3097p3	vita media · average life 80000 h L90 B10								

Vb6.650.039	nero55	3500K	44°	2
Vb6.650.045	argento hacca	3500K	44°	2
Vb6.650.051	biancoV	3500K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	24.9	2353	17.5	134
					1050	25.3	3419	26.6	129
					1400	26.1	4244	36.5	116
mn3597p3	vita media · average life 80000 h L90 B10								



mn incasso 03 130X370 h.26 IP40

Vb6.650.040	nero55	2700K	70°	2
Vb6.650.046	argento hacca	2700K	70°	2
Vb6.650.052	biancoV	2700K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	700	24.9	2161	17.5	123
					1050	25.3	3140	26.6	118
					1400	26.1	3897	36.5	107
mn2797p3	vita media · average life 80000 h L90 B10								

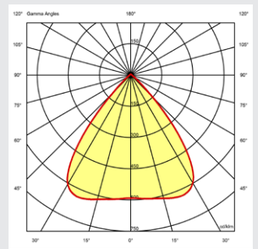
Vb6.650.041	nero55	3000K	70°	2
Vb6.650.047	argento hacca	3000K	70°	2
Vb6.650.053	biancoV	3000K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	24.9	2289	17.5	131
					1050	25.3	3326	26.6	125
					1400	26.1	4128	36.5	113
mn3097p3	vita media · average life 80000 h L90 B10								

Vb6.650.042	nero55	3500K	70°	2
Vb6.650.048	argento hacca	3500K	70°	2
Vb6.650.054	biancoV	3500K	70°	2

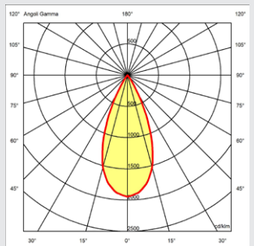
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	24.9	2353	17.5	134
					1050	25.3	3419	26.6	129
					1400	26.1	4244	36.5	116
mn3597p3	vita media · average life 80000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

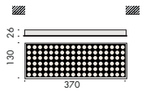


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ >65° < 1000cd/m²
Lmγ >45° < 6000cd/m²



mn incasso 03 130X370 a.i. h.26		240V 50/60Hz		IP40		
Vb6.650.163	nero55	on-off	2700K	44°	2	
Vb6.650.169	argento hacca	on-off	2700K	44°	2	
Vb6.650.175	biancoV	on-off	2700K	44°	2	
Vb6.650.289	nero55	dali	2700K	44°	2	
Vb6.650.295	argento hacca	dali	2700K	44°	2	
Vb6.650.301	biancoV	dali	2700K	44°	2	
Vb6.650.415	nero55	casambi	2700K	44°	2	
Vb6.650.421	argento hacca	casambi	2700K	44°	2	
Vb6.650.427	biancoV	casambi	2700K	44°	2	

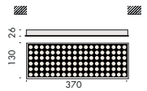
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	1050	25.3	3140	26.6	118
mn2797p3	vita media · average life 80000 h L90 B10								

Vb6.650.164	nero55	on-off	3000K	44°	2	
Vb6.650.170	argento hacca	on-off	3000K	44°	2	
Vb6.650.176	biancoV	on-off	3000K	44°	2	
Vb6.650.290	nero55	dali	3000K	44°	2	
Vb6.650.296	argento hacca	dali	3000K	44°	2	
Vb6.650.302	biancoV	dali	3000K	44°	2	
Vb6.650.416	nero55	casambi	3000K	44°	2	
Vb6.650.422	argento hacca	casambi	3000K	44°	2	
Vb6.650.428	biancoV	casambi	3000K	44°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	25.3	3326	26.6	125
mn3097p3	vita media · average life 80000 h L90 B10								

Vb6.650.165	nero55	on-off	3500K	44°	2	
Vb6.650.171	argento hacca	on-off	3500K	44°	2	
Vb6.650.177	biancoV	on-off	3500K	44°	2	
Vb6.650.291	nero55	dali	3500K	44°	2	
Vb6.650.297	argento hacca	dali	3500K	44°	2	
Vb6.650.303	biancoV	dali	3500K	44°	2	
Vb6.650.417	nero55	casambi	3500K	44°	2	
Vb6.650.423	argento hacca	casambi	3500K	44°	2	
Vb6.650.429	biancoV	casambi	3500K	44°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	25.3	3419	26.6	129
mn3597p3	vita media · average life 80000 h L90 B10								



mn incasso 03 130X370 a.i. h.26		240V 50/60Hz		IP40		
Vb6.650.166	nero55	on-off	2700K	70°	2	
Vb6.650.172	argento hacca	on-off	2700K	70°	2	
Vb6.650.178	biancoV	on-off	2700K	70°	2	
Vb6.650.292	nero55	dali	2700K	70°	2	
Vb6.650.298	argento hacca	dali	2700K	70°	2	
Vb6.650.304	biancoV	dali	2700K	70°	2	
Vb6.650.418	nero55	casambi	2700K	70°	2	
Vb6.650.424	argento hacca	casambi	2700K	70°	2	
Vb6.650.430	biancoV	casambi	2700K	70°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	1050	25.3	3140	26.6	118
mn2797p3	vita media · average life 80000 h L90 B10								

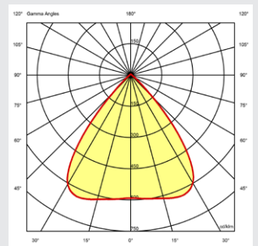
Vb6.650.167	nero55	on-off	3000K	70°	2	
Vb6.650.173	argento hacca	on-off	3000K	70°	2	
Vb6.650.179	biancoV	on-off	3000K	70°	2	
Vb6.650.293	nero55	dali	3000K	70°	2	
Vb6.650.299	argento hacca	dali	3000K	70°	2	
Vb6.650.305	biancoV	dali	3000K	70°	2	
Vb6.650.419	nero55	casambi	3000K	70°	2	
Vb6.650.425	argento hacca	casambi	3000K	70°	2	
Vb6.650.431	biancoV	casambi	3000K	70°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	25.3	3326	26.6	125
mn3097p3	vita media · average life 80000 h L90 B10								

Vb6.650.168	nero55	on-off	3500K	70°	2	
Vb6.650.174	argento hacca	on-off	3500K	70°	2	
Vb6.650.180	biancoV	on-off	3500K	70°	2	
Vb6.650.294	nero55	dali	3500K	70°	2	
Vb6.650.300	argento hacca	dali	3500K	70°	2	
Vb6.650.306	biancoV	dali	3500K	70°	2	
Vb6.650.420	nero55	casambi	3500K	70°	2	
Vb6.650.426	argento hacca	casambi	3500K	70°	2	
Vb6.650.432	biancoV	casambi	3500K	70°	2	

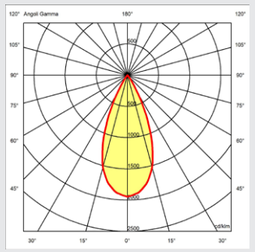
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	25.3	3419	26.6	129
mn3597p3	vita media · average life 80000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

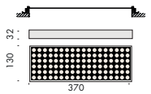


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ >65° < 1000cd/m²
Lmγ >45° < 6000cd/m²



mn scomparsa totale 03 130X370 h.32 — IP40

Vb6.650.637	nero55	2700K	44°	2
Vb6.650.643	argento hacca	2700K	44°	2
Vb6.650.649	biancoV	2700K	44°	2

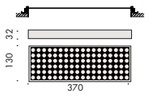
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	700	24.9	2161	17.5	123
					1050	25.3	3140	26.6	118
					1400	26.1	3897	36.5	107
mn2797p3	vita media · average life 80000 h L90 B10								

Vb6.650.638	nero55	3000K	44°	2
Vb6.650.644	argento hacca	3000K	44°	2
Vb6.650.650	biancoV	3000K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	24.9	2289	17.5	131
					1050	25.3	3326	26.6	125
					1400	26.1	4128	36.5	113
mn3097p3	vita media · average life 80000 h L90 B10								

Vb6.650.639	nero55	3500K	44°	2
Vb6.650.645	argento hacca	3500K	44°	2
Vb6.650.651	biancoV	3500K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	24.9	2353	17.5	134
					1050	25.3	3419	26.6	129
					1400	26.1	4244	36.5	116
mn3597p3	vita media · average life 80000 h L90 B10								



mn scomparsa totale 03 130X370 h.32 — IP40

Vb6.650.640	nero55	2700K	70°	2
Vb6.650.646	argento hacca	2700K	70°	2
Vb6.650.652	biancoV	2700K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	700	24.9	2161	17.5	123
					1050	25.3	3140	26.6	118
					1400	26.1	3897	36.5	107
mn2797p3	vita media · average life 80000 h L90 B10								

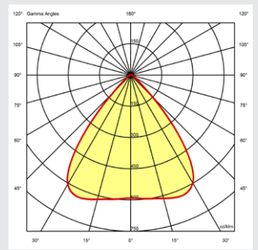
Vb6.650.641	nero55	3000K	70°	2
Vb6.650.647	argento hacca	3000K	70°	2
Vb6.650.653	biancoV	3000K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	24.9	2289	17.5	131
					1050	25.3	3326	26.6	125
					1400	26.1	4128	36.5	113
mn3097p3	vita media · average life 80000 h L90 B10								

Vb6.650.642	nero55	3500K	70°	2
Vb6.650.648	argento hacca	3500K	70°	2
Vb6.650.654	biancoV	3500K	70°	2

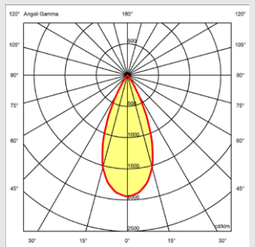
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	24.9	2353	17.5	134
					1050	25.3	3419	26.6	129
					1400	26.1	4244	36.5	116
mn3597p3	vita media · average life 80000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

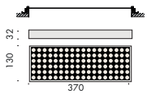


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ >65° < 1000cd/m²
Lmγ >45° < 6000cd/m²



mn scomparsa totale 03 130X370 a.i. h.32		240V 50/60Hz		IP40			
Vb6.650.781	nero55	on-off			2700K	44°	2
Vb6.650.787	argento hacca	on-off			2700K	44°	2
Vb6.650.793	biancoV	on-off			2700K	44°	2
Vb6.650.925	nero55	dali			2700K	44°	2
Vb6.650.931	argento hacca	dali			2700K	44°	2
Vb6.650.937	biancoV	dali			2700K	44°	2
Vb6.650.1069	nero55	casambi			2700K	44°	2
Vb6.650.1075	argento hacca	casambi			2700K	44°	2
Vb6.650.1081	biancoV	casambi			2700K	44°	2

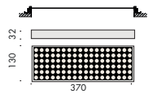
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	1050	25.3	3140	26.6	118
mn2797p3	vita media · average life 80000 h L90 B10								

Vb6.650.782	nero55	on-off		3000K	44°	2
Vb6.650.788	argento hacca	on-off		3000K	44°	2
Vb6.650.794	biancoV	on-off		3000K	44°	2
Vb6.650.926	nero55	dali		3000K	44°	2
Vb6.650.932	argento hacca	dali		3000K	44°	2
Vb6.650.938	biancoV	dali		3000K	44°	2
Vb6.650.1070	nero55	casambi		3000K	44°	2
Vb6.650.1076	argento hacca	casambi		3000K	44°	2
Vb6.650.1082	biancoV	casambi		3000K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	25.3	3326	26.6	125
mn3097p3	vita media · average life 80000 h L90 B10								

Vb6.650.783	nero55	on-off		3500K	44°	2
Vb6.650.789	argento hacca	on-off		3500K	44°	2
Vb6.650.795	biancoV	on-off		3500K	44°	2
Vb6.650.927	nero55	dali		3500K	44°	2
Vb6.650.933	argento hacca	dali		3500K	44°	2
Vb6.650.939	biancoV	dali		3500K	44°	2
Vb6.650.1071	nero55	casambi		3500K	44°	2
Vb6.650.1077	argento hacca	casambi		3500K	44°	2
Vb6.650.1083	biancoV	casambi		3500K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	25.3	3419	26.6	129
mn3597p3	vita media · average life 80000 h L90 B10								



mn scomparsa totale 03 130X370 a.i. h.32		240V 50/60Hz		IP40			
Vb6.650.784	nero55	on-off			2700K	70°	2
Vb6.650.790	argento hacca	on-off			2700K	70°	2
Vb6.650.796	biancoV	on-off			2700K	70°	2
Vb6.650.928	nero55	dali			2700K	70°	2
Vb6.650.934	argento hacca	dali			2700K	70°	2
Vb6.650.940	biancoV	dali			2700K	70°	2
Vb6.650.1072	nero55	casambi			2700K	70°	2
Vb6.650.1078	argento hacca	casambi			2700K	70°	2
Vb6.650.1084	biancoV	casambi			2700K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	1050	25.3	3140	26.6	118
mn2797p3	vita media · average life 80000 h L90 B10								

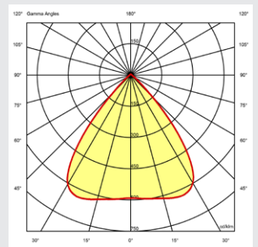
Vb6.650.785	nero55	on-off		3000K	70°	2
Vb6.650.791	argento hacca	on-off		3000K	70°	2
Vb6.650.797	biancoV	on-off		3000K	70°	2
Vb6.650.929	nero55	dali		3000K	70°	2
Vb6.650.935	argento hacca	dali		3000K	70°	2
Vb6.650.941	biancoV	dali		3000K	70°	2
Vb6.650.1073	nero55	casambi		3000K	70°	2
Vb6.650.1079	argento hacca	casambi		3000K	70°	2
Vb6.650.1085	biancoV	casambi		3000K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	25.3	3326	26.6	125
mn3097p3	vita media · average life 80000 h L90 B10								

Vb6.650.786	nero55	on-off		3500K	70°	2
Vb6.650.792	argento hacca	on-off		3500K	70°	2
Vb6.650.798	biancoV	on-off		3500K	70°	2
Vb6.650.930	nero55	dali		3500K	70°	2
Vb6.650.936	argento hacca	dali		3500K	70°	2
Vb6.650.942	biancoV	dali		3500K	70°	2
Vb6.650.1074	nero55	casambi		3500K	70°	2
Vb6.650.1080	argento hacca	casambi		3500K	70°	2
Vb6.650.1086	biancoV	casambi		3500K	70°	2

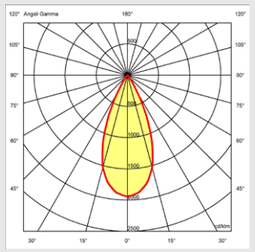
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	25.3	3419	26.6	129
mn3597p3	vita media · average life 80000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

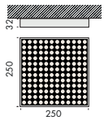


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ>65° < 1000cd/m²
Lmγ>45° < 6000cd/m²



mn soffitto 04 250X250 h.32 IP40

Vb5.650.055	nero55	2700K	44°	2
Vb5.650.061	argento hacca	2700K	44°	2
Vb5.650.067	biancoV	2700K	44°	2

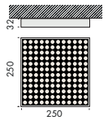
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	500	49.8	3086	24.9	124
					700	50.6	4187	35.4	118
					1050	52.2	5846	54.8	107
mn2797p4	vita media · average life 80000 h L90 B10								

Vb5.650.056	nero55	3000K	44°	2
Vb5.650.062	argento hacca	3000K	44°	2
Vb5.650.068	biancoV	3000K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	49.8	3269	24.9	131
					700	50.6	4435	35.4	125
					1050	52.2	6192	54.8	113
mn3097p4	vita media · average life 80000 h L90 B10								

Vb5.650.057	nero55	3500K	44°	2
Vb5.650.063	argento hacca	3500K	44°	2
Vb5.650.069	biancoV	3500K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	49.8	3360	24.9	135
					700	50.6	4560	35.4	129
					1050	52.2	6365	54.8	116
mn3597p4	vita media · average life 80000 h L90 B10								



mn soffitto 04 250X250 h.32 IP40

Vb5.650.058	nero55	2700K	70°	2
Vb5.650.064	argento hacca	2700K	70°	2
Vb5.650.070	biancoV	2700K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	500	49.8	3086	24.9	124
					700	50.6	4187	35.4	118
					1050	52.2	5846	54.8	107
mn2797p4	vita media · average life 80000 h L90 B10								

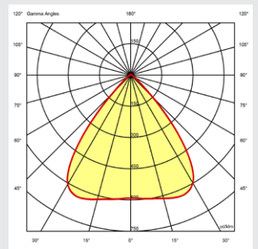
Vb5.650.059	nero55	3000K	70°	2
Vb5.650.065	argento hacca	3000K	70°	2
Vb5.650.071	biancoV	3000K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	49.8	3269	24.9	131
					700	50.6	4435	35.4	125
					1050	52.2	6192	54.8	113
mn3097p4	vita media · average life 80000 h L90 B10								

Vb5.650.060	nero55	3500K	70°	2
Vb5.650.066	argento hacca	3500K	70°	2
Vb5.650.072	biancoV	3500K	70°	2

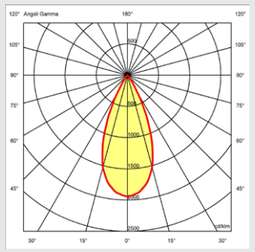
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	49.8	3360	24.9	135
					700	50.6	4560	35.4	129
					1050	52.2	6365	54.8	116
mn3597p4	vita media · average life 80000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

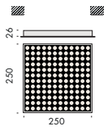


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ>65° < 1000cd/m²
Lmγ>45° < 6000cd/m²



mn incasso 04 250X250 h.26 IP40

Vb6.650.055	nero55	2700K	44°	2
Vb6.650.061	argento hacca	2700K	44°	2
Vb6.650.067	biancoV	2700K	44°	2

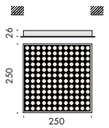
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	500	49.8	3086	24.9	124
					700	50.6	4187	35.4	118
					1050	52.2	5846	54.8	107
mn2797p4	vita media · average life 80000 h L90 B10								

Vb6.650.056	nero55	3000K	44°	2
Vb6.650.062	argento hacca	3000K	44°	2
Vb6.650.068	biancoV	3000K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	49.8	3269	24.9	131
					700	50.6	4435	35.4	125
					1050	52.2	6192	54.8	113
mn3097p4	vita media · average life 80000 h L90 B10								

Vb6.650.057	nero55	3500K	44°	2
Vb6.650.063	argento hacca	3500K	44°	2
Vb6.650.069	biancoV	3500K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	49.8	3360	24.9	135
					700	50.6	4560	35.4	129
					1050	52.2	6365	54.8	116
mn3597p4	vita media · average life 80000 h L90 B10								



mn incasso 04 250X250 h.26 IP40

Vb6.650.058	nero55	2700K	70°	2
Vb6.650.064	argento hacca	2700K	70°	2
Vb6.650.070	biancoV	2700K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	500	49.8	3086	24.9	124
					700	50.6	4187	35.4	118
					1050	52.2	5846	54.8	107
mn2797p4	vita media · average life 80000 h L90 B10								

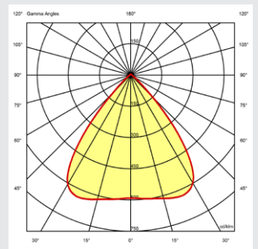
Vb6.650.059	nero55	3000K	70°	2
Vb6.650.065	argento hacca	3000K	70°	2
Vb6.650.071	biancoV	3000K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	49.8	3269	24.9	131
					700	50.6	4435	35.4	125
					1050	52.2	6192	54.8	113
mn3097p4	vita media · average life 80000 h L90 B10								

Vb6.650.060	nero55	3500K	70°	2
Vb6.650.066	argento hacca	3500K	70°	2
Vb6.650.072	biancoV	3500K	70°	2

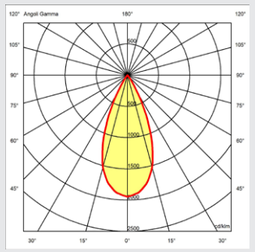
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	49.8	3360	24.9	135
					700	50.6	4560	35.4	129
					1050	52.2	6365	54.8	116
mn3597p4	vita media · average life 80000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

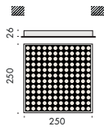


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ>65° < 1000cd/m²
Lmγ>45° < 6000cd/m²



mn incasso 04 250X250 a.i. h.26 — 240V 50/60Hz — AR — IP40

Vb6.650.181	nero55	on-off	2700K	44°	2
Vb6.650.187	argento hacca	on-off	2700K	44°	2
Vb6.650.193	biancoV	on-off	2700K	44°	2
Vb6.650.307	nero55	dali	2700K	44°	2
Vb6.650.313	argento hacca	dali	2700K	44°	2
Vb6.650.319	biancoV	dali	2700K	44°	2
Vb6.650.433	nero55	casambi	2700K	44°	2
Vb6.650.439	argento hacca	casambi	2700K	44°	2
Vb6.650.445	biancoV	casambi	2700K	44°	2

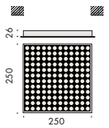
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	1050	52.2	5846	54.8	107
mn2797p4	vita media · average life 80000 h L90 B10								

Vb6.650.182	nero55	on-off	3000K	44°	2
Vb6.650.188	argento hacca	on-off	3000K	44°	2
Vb6.650.194	biancoV	on-off	3000K	44°	2
Vb6.650.308	nero55	dali	3000K	44°	2
Vb6.650.314	argento hacca	dali	3000K	44°	2
Vb6.650.320	biancoV	dali	3000K	44°	2
Vb6.650.434	nero55	casambi	3000K	44°	2
Vb6.650.440	argento hacca	casambi	3000K	44°	2
Vb6.650.446	biancoV	casambi	3000K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	52.2	6192	54.8	113
mn3097p4	vita media · average life 80000 h L90 B10								

Vb6.650.183	nero55	on-off	3500K	44°	2
Vb6.650.189	argento hacca	on-off	3500K	44°	2
Vb6.650.195	biancoV	on-off	3500K	44°	2
Vb6.650.309	nero55	dali	3500K	44°	2
Vb6.650.315	argento hacca	dali	3500K	44°	2
Vb6.650.321	biancoV	dali	3500K	44°	2
Vb6.650.435	nero55	casambi	3500K	44°	2
Vb6.650.441	argento hacca	casambi	3500K	44°	2
Vb6.650.447	biancoV	casambi	3500K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	52.2	6365	54.8	116
mn3597p4	vita media · average life 80000 h L90 B10								



mn incasso 04 250X250 a.i. h.26 — 240V 50/60Hz — AR — IP40

Vb6.650.184	nero55	on-off	2700K	70°	2
Vb6.650.190	argento hacca	on-off	2700K	70°	2
Vb6.650.196	biancoV	on-off	2700K	70°	2
Vb6.650.310	nero55	dali	2700K	70°	2
Vb6.650.316	argento hacca	dali	2700K	70°	2
Vb6.650.322	biancoV	dali	2700K	70°	2
Vb6.650.436	nero55	casambi	2700K	70°	2
Vb6.650.442	argento hacca	casambi	2700K	70°	2
Vb6.650.448	biancoV	casambi	2700K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	1050	52.2	5846	54.8	107
mn2797p4	vita media · average life 80000 h L90 B10								

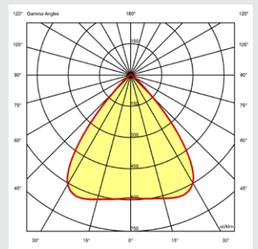
Vb6.650.185	nero55	on-off	3000K	70°	2
Vb6.650.191	argento hacca	on-off	3000K	70°	2
Vb6.650.197	biancoV	on-off	3000K	70°	2
Vb6.650.311	nero55	dali	3000K	70°	2
Vb6.650.317	argento hacca	dali	3000K	70°	2
Vb6.650.323	biancoV	dali	3000K	70°	2
Vb6.650.437	nero55	casambi	3000K	70°	2
Vb6.650.443	argento hacca	casambi	3000K	70°	2
Vb6.650.449	biancoV	casambi	3000K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	52.2	6192	54.8	113
mn3097p4	vita media · average life 80000 h L90 B10								

Vb6.650.186	nero55	on-off	3500K	70°	2
Vb6.650.192	argento hacca	on-off	3500K	70°	2
Vb6.650.198	biancoV	on-off	3500K	70°	2
Vb6.650.312	nero55	dali	3500K	70°	2
Vb6.650.318	argento hacca	dali	3500K	70°	2
Vb6.650.324	biancoV	dali	3500K	70°	2
Vb6.650.438	nero55	casambi	3500K	70°	2
Vb6.650.444	argento hacca	casambi	3500K	70°	2
Vb6.650.450	biancoV	casambi	3500K	70°	2

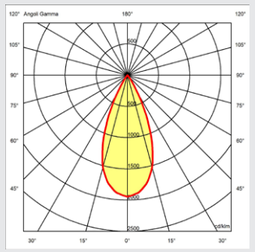
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	52.2	6365	54.8	116
mn3597p4	vita media · average life 80000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

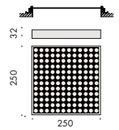


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ>65° < 1000cd/m²
Lmγ>45° < 6000cd/m²



mn scomparsa totale 04 250x250 h.32 IP40

Vb6.650.655	nero55	2700K	44°	2
Vb6.650.661	argento hacca	2700K	44°	2
Vb6.650.667	biancoV	2700K	44°	2

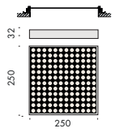
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	500	49.8	3086	24.9	124
					700	50.6	4187	35.4	118
					1050	52.2	5846	54.8	107
mn2797p4	vita media · average life 80000 h L90 B10								

Vb6.650.656	nero55	3000K	44°	2
Vb6.650.662	argento hacca	3000K	44°	2
Vb6.650.668	biancoV	3000K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	49.8	3269	24.9	131
					700	50.6	4435	35.4	125
					1050	52.2	6192	54.8	113
mn3097p4	vita media · average life 80000 h L90 B10								

Vb6.650.657	nero55	3500K	44°	2
Vb6.650.663	argento hacca	3500K	44°	2
Vb6.650.669	biancoV	3500K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	49.8	3360	24.9	135
					700	50.6	4560	35.4	129
					1050	52.2	6365	54.8	116
mn3597p4	vita media · average life 80000 h L90 B10								



mn scomparsa totale 04 250x250 h.32 IP40

Vb6.650.658	nero55	2700K	70°	2
Vb6.650.664	argento hacca	2700K	70°	2
Vb6.650.670	biancoV	2700K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	500	49.8	3086	24.9	124
					700	50.6	4187	35.4	118
					1050	52.2	5846	54.8	107
mn2797p4	vita media · average life 80000 h L90 B10								

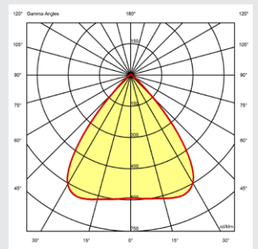
Vb6.650.659	nero55	3000K	70°	2
Vb6.650.665	argento hacca	3000K	70°	2
Vb6.650.671	biancoV	3000K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	49.8	3269	24.9	131
					700	50.6	4435	35.4	125
					1050	52.2	6192	54.8	113
mn3097p4	vita media · average life 80000 h L90 B10								

Vb6.650.660	nero55	3500K	70°	2
Vb6.650.666	argento hacca	3500K	70°	2
Vb6.650.672	biancoV	3500K	70°	2

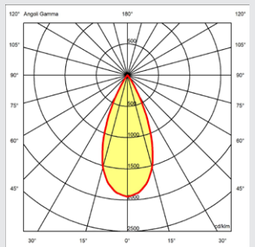
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	49.8	3360	24.9	135
					700	50.6	4560	35.4	129
					1050	52.2	6365	54.8	116
mn3597p4	vita media · average life 80000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

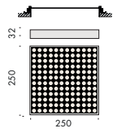


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ >65° < 1000cd/m²
Lmγ >45° < 6000cd/m²



mn scomparsa totale 04 250x250 a.i. h.32 **240V 50/60Hz** IP40

Vb6.650.799	nero55	on-off	2700K	44° 2
Vb6.650.805	argento hacca	on-off	2700K	44° 2
Vb6.650.811	biancoV	on-off	2700K	44° 2
Vb6.650.943	nero55	dali	2700K	44° 2
Vb6.650.949	argento hacca	dali	2700K	44° 2
Vb6.650.955	biancoV	dali	2700K	44° 2
Vb6.650.1087	nero55	casambi	2700K	44° 2
Vb6.650.1093	argento hacca	casambi	2700K	44° 2
Vb6.650.1099	biancoV	casambi	2700K	44° 2

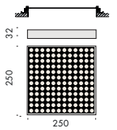
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	1050	52.2	5846	54.8	107
mn2797p4	vita media · average life 80000 h L90 B10								

Vb6.650.800	nero55	on-off	3000K	44° 2
Vb6.650.806	argento hacca	on-off	3000K	44° 2
Vb6.650.812	biancoV	on-off	3000K	44° 2
Vb6.650.944	nero55	dali	3000K	44° 2
Vb6.650.950	argento hacca	dali	3000K	44° 2
Vb6.650.956	biancoV	dali	3000K	44° 2
Vb6.650.1088	nero55	casambi	3000K	44° 2
Vb6.650.1094	argento hacca	casambi	3000K	44° 2
Vb6.650.1100	biancoV	casambi	3000K	44° 2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	52.2	6192	54.8	113
mn3097p4	vita media · average life 80000 h L90 B10								

Vb6.650.801	nero55	on-off	3500K	44° 2
Vb6.650.807	argento hacca	on-off	3500K	44° 2
Vb6.650.813	biancoV	on-off	3500K	44° 2
Vb6.650.945	nero55	dali	3500K	44° 2
Vb6.650.951	argento hacca	dali	3500K	44° 2
Vb6.650.957	biancoV	dali	3500K	44° 2
Vb6.650.1089	nero55	casambi	3500K	44° 2
Vb6.650.1095	argento hacca	casambi	3500K	44° 2
Vb6.650.1101	biancoV	casambi	3500K	44° 2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	52.2	6365	54.8	116
mn3597p4	vita media · average life 80000 h L90 B10								



mn scomparsa totale 04 250x250 a.i. h.32 **240V 50/60Hz** IP40

Vb6.650.802	nero55	on-off	2700K	70° 2
Vb6.650.808	argento hacca	on-off	2700K	70° 2
Vb6.650.814	biancoV	on-off	2700K	70° 2
Vb6.650.946	nero55	dali	2700K	70° 2
Vb6.650.952	argento hacca	dali	2700K	70° 2
Vb6.650.958	biancoV	dali	2700K	70° 2
Vb6.650.1090	nero55	casambi	2700K	70° 2
Vb6.650.1096	argento hacca	casambi	2700K	70° 2
Vb6.650.1102	biancoV	casambi	2700K	70° 2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	1050	52.2	5846	54.8	107
mn2797p4	vita media · average life 80000 h L90 B10								

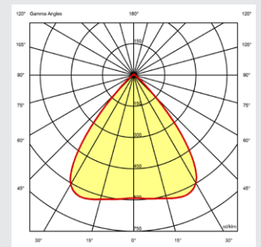
Vb6.650.803	nero55	on-off	3000K	70° 2
Vb6.650.809	argento hacca	on-off	3000K	70° 2
Vb6.650.815	biancoV	on-off	3000K	70° 2
Vb6.650.947	nero55	dali	3000K	70° 2
Vb6.650.953	argento hacca	dali	3000K	70° 2
Vb6.650.959	biancoV	dali	3000K	70° 2
Vb6.650.1091	nero55	casambi	3000K	70° 2
Vb6.650.1097	argento hacca	casambi	3000K	70° 2
Vb6.650.1103	biancoV	casambi	3000K	70° 2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	52.2	6192	54.8	113
mn3097p4	vita media · average life 80000 h L90 B10								

Vb6.650.804	nero55	on-off	3500K	70° 2
Vb6.650.810	argento hacca	on-off	3500K	70° 2
Vb6.650.816	biancoV	on-off	3500K	70° 2
Vb6.650.948	nero55	dali	3500K	70° 2
Vb6.650.954	argento hacca	dali	3500K	70° 2
Vb6.650.960	biancoV	dali	3500K	70° 2
Vb6.650.1092	nero55	casambi	3500K	70° 2
Vb6.650.1098	argento hacca	casambi	3500K	70° 2
Vb6.650.1104	biancoV	casambi	3500K	70° 2

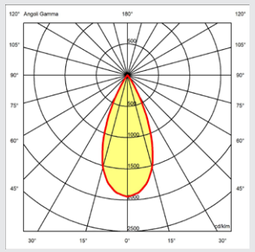
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	52.2	6365	54.8	116
mn3597p4	vita media · average life 80000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

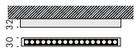


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ>65° < 1000cd/m²
Lmγ>45° < 6000cd/m²



mn soffitto 30x370 h.32 IP40

Vb5.650.091	nero55	2700K	44°	2
Vb5.650.097	argento hacca	2700K	44°	2
Vb5.650.103	biancoV	2700K	44°	2

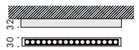
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	175	25.5	535	4.5	119
					250	26.0	724	6.5	111
					350	27.0	948	9.5	100
mn2797i2	vita media · average life 70000 h L90 B10								

Vb5.650.092	nero55	3000K	44°	2
Vb5.650.098	argento hacca	3000K	44°	2
Vb5.650.104	biancoV	3000K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	175	25.5	567	4.5	126
					250	26.0	767	6.5	118
					350	27.0	1004	9.5	106
mn3097i2	vita media · average life 70000 h L90 B10								

Vb5.650.093	nero55	3500K	44°	2
Vb5.650.099	argento hacca	3500K	44°	2
Vb5.650.105	biancoV	3500K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	175	25.5	583	4.5	130
					250	26.0	788	6.5	121
					350	27.0	1032	9.5	109
mn3597i2	vita media · average life 70000 h L90 B10								



mn soffitto 30x370 h.32 IP40

Vb5.650.094	nero55	2700K	70°	2
Vb5.650.100	argento hacca	2700K	70°	2
Vb5.650.106	biancoV	2700K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	175	25.5	535	4.5	119
					250	26.0	724	6.5	111
					350	27.0	948	9.5	100
mn2797i2	vita media · average life 70000 h L90 B10								

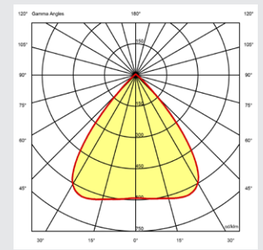
Vb5.650.095	nero55	3000K	70°	2
Vb5.650.101	argento hacca	3000K	70°	2
Vb5.650.107	biancoV	3000K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	175	25.5	567	4.5	126
					250	26.0	767	6.5	118
					350	27.0	1004	9.5	106
mn3097i2	vita media · average life 70000 h L90 B10								

Vb5.650.096	nero55	3500K	70°	2
Vb5.650.102	argento hacca	3500K	70°	2
Vb5.650.108	biancoV	3500K	70°	2

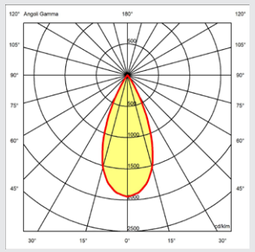
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	175	25.5	583	4.5	130
					250	26.0	788	6.5	121
					350	27.0	1032	9.5	109
mn3597i2	vita media · average life 70000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

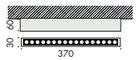


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ>65° < 1000cd/m²
Lmγ>45° < 6000cd/m²



mn soffitto 30x370 a.i. h.60					240V 50/60Hz		IP40			
Vb5.650.235	nero55				on-off			2700K	44°	2
Vb5.650.241	argento hacca				on-off			2700K	44°	2
Vb5.650.247	biancoV				on-off			2700K	44°	2
Vb5.650.379	nero55				dali			2700K	44°	2
Vb5.650.385	argento hacca				dali			2700K	44°	2
Vb5.650.391	biancoV				dali			2700K	44°	2

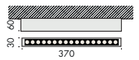
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	350	27.0	948	9.5	100
mn2797i2	vita media · average life 70000 h L90 B10								

Vb5.650.236	nero55				on-off			3000K	44°	2
Vb5.650.242	argento hacca				on-off			3000K	44°	2
Vb5.650.248	biancoV				on-off			3000K	44°	2
Vb5.650.380	nero55				dali			3000K	44°	2
Vb5.650.386	argento hacca				dali			3000K	44°	2
Vb5.650.392	biancoV				dali			3000K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	350	27.0	1004	9.5	106
mn3097i2	vita media · average life 70000 h L90 B10								

Vb5.650.237	nero55				on-off			3500K	44°	2
Vb5.650.243	argento hacca				on-off			3500K	44°	2
Vb5.650.249	biancoV				on-off			3500K	44°	2
Vb5.650.381	nero55				dali			3500K	44°	2
Vb5.650.387	argento hacca				dali			3500K	44°	2
Vb5.650.393	biancoV				dali			3500K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	350	27.0	1032	9.5	109
mn3597i2	vita media · average life 70000 h L90 B10								



mn soffitto 30x370 a.i. h.60					240V 50/60Hz		IP40			
Vb5.650.238	nero55				on-off			2700K	70°	2
Vb5.650.244	argento hacca				on-off			2700K	70°	2
Vb5.650.250	biancoV				on-off			2700K	70°	2
Vb5.650.382	nero55				dali			2700K	70°	2
Vb5.650.388	argento hacca				dali			2700K	70°	2
Vb5.650.394	biancoV				dali			2700K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	350	27.0	948	9.5	100
mn2797i2	vita media · average life 70000 h L90 B10								

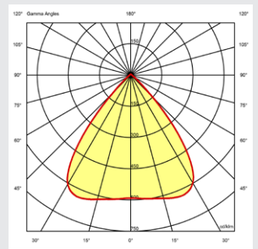
Vb5.650.239	nero55				on-off			3000K	70°	2
Vb5.650.245	argento hacca				on-off			3000K	70°	2
Vb5.650.251	biancoV				on-off			3000K	70°	2
Vb5.650.383	nero55				dali			3000K	70°	2
Vb5.650.389	argento hacca				dali			3000K	70°	2
Vb5.650.395	biancoV				dali			3000K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	350	27.0	1004	9.5	106
mn3097i2	vita media · average life 70000 h L90 B10								

Vb5.650.240	nero55				on-off			3500K	70°	2
Vb5.650.246	argento hacca				on-off			3500K	70°	2
Vb5.650.252	biancoV				on-off			3500K	70°	2
Vb5.650.384	nero55				dali			3500K	70°	2
Vb5.650.390	argento hacca				dali			3500K	70°	2
Vb5.650.396	biancoV				dali			3500K	70°	2

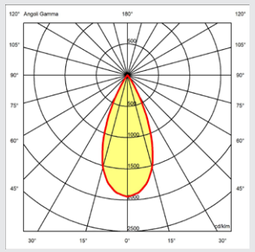
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	350	27.0	1032	9.5	109
mn3597i2	vita media · average life 70000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

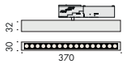


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ>65° < 1000cd/m²
Lmγ>45° < 6000cd/m²



mn adattatore A1 30x370 h.32 48Vdc IP40

Vb7.650.385	nero55 · nero	on-off	2700K	44°	2
Vb7.650.391	argento hacca · nero	on-off	2700K	44°	2
Vb7.650.397	biancoV · nero	on-off	2700K	44°	2
Vb7.650.493	nero55 · nero	casambi	2700K	44°	2
Vb7.650.499	argento hacca · nero	casambi	2700K	44°	2
Vb7.650.505	biancoV · nero	casambi	2700K	44°	2

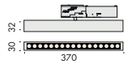
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	350	27.0	948	9.5	100
mn2797i2	vita media · average life 70000 h L90 B10								

Vb7.650.386	nero55 · nero	on-off	3000K	44°	2
Vb7.650.392	argento hacca · nero	on-off	3000K	44°	2
Vb7.650.398	biancoV · nero	on-off	3000K	44°	2
Vb7.650.494	nero55 · nero	casambi	3000K	44°	2
Vb7.650.500	argento hacca · nero	casambi	3000K	44°	2
Vb7.650.506	biancoV · nero	casambi	3000K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	350	27.0	1004	9.5	106
mn3097i2	vita media · average life 70000 h L90 B10								

Vb7.650.387	nero55 · nero	on-off	3500K	44°	2
Vb7.650.393	argento hacca · nero	on-off	3500K	44°	2
Vb7.650.399	biancoV · nero	on-off	3500K	44°	2
Vb7.650.495	nero55 · nero	casambi	3500K	44°	2
Vb7.650.501	argento hacca · nero	casambi	3500K	44°	2
Vb7.650.507	biancoV · nero	casambi	3500K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	350	27.0	1032	9.5	109
mn3597i2	vita media · average life 70000 h L90 B10								



mn adattatore A1 30x370 h.32 48Vdc IP40

Vb7.650.388	nero55 · nero	on-off	2700K	70°	2
Vb7.650.394	argento hacca · nero	on-off	2700K	70°	2
Vb7.650.400	biancoV · nero	on-off	2700K	70°	2
Vb7.650.496	nero55 · nero	casambi	2700K	70°	2
Vb7.650.502	argento hacca · nero	casambi	2700K	70°	2
Vb7.650.508	biancoV · nero	casambi	2700K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	350	27.0	948	9.5	100
mn2797i2	vita media · average life 70000 h L90 B10								

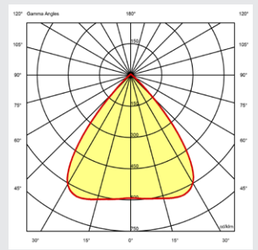
Vb7.650.389	nero55 · nero	on-off	3000K	70°	2
Vb7.650.395	argento hacca · nero	on-off	3000K	70°	2
Vb7.650.401	biancoV · nero	on-off	3000K	70°	2
Vb7.650.497	nero55 · nero	casambi	3000K	70°	2
Vb7.650.503	argento hacca · nero	casambi	3000K	70°	2
Vb7.650.509	biancoV · nero	casambi	3000K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	350	27.0	1004	9.5	106
mn3097i2	vita media · average life 70000 h L90 B10								

Vb7.650.390	nero55 · nero	on-off	3500K	70°	2
Vb7.650.396	argento hacca · nero	on-off	3500K	70°	2
Vb7.650.402	biancoV · nero	on-off	3500K	70°	2
Vb7.650.498	nero55 · nero	casambi	3500K	70°	2
Vb7.650.504	argento hacca · nero	casambi	3500K	70°	2
Vb7.650.510	biancoV · nero	casambi	3500K	70°	2

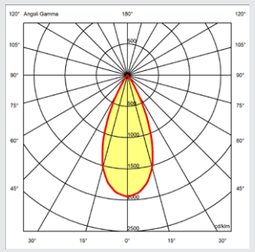
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	350	27.0	1032	9.5	109
mn3597i2	vita media · average life 70000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

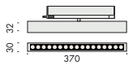


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ >65° < 1000cd/m²
Lmγ >45° < 6000cd/m²



mn adattatore VbB 30x370 h.32		240V 50/60Hz		IP40			
Vb7.650.055	nero55 · nero	on-off	2700K	44°	2		
Vb7.650.061	argento hacca · nero	on-off	2700K	44°	2		
Vb7.650.067	biancoV · bianco	on-off	2700K	44°	2		
Vb7.650.163	nero55 · nero	dali	2700K	44°	2		
Vb7.650.169	argento hacca · nero	dali	2700K	44°	2		
Vb7.650.175	biancoV · bianco	dali	2700K	44°	2		
Vb7.650.271	nero55 · nero	casambi	2700K	44°	2		
Vb7.650.277	argento hacca · nero	casambi	2700K	44°	2		
Vb7.650.283	biancoV · bianco	casambi	2700K	44°	2		

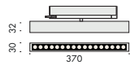
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	350	27.0	948	9.5	100
mn2797i2	vita media · average life 70000 h L90 B10								

Vb7.650.056	nero55 · nero	on-off	3000K	44°	2		
Vb7.650.062	argento hacca · nero	on-off	3000K	44°	2		
Vb7.650.068	biancoV · bianco	on-off	3000K	44°	2		
Vb7.650.164	nero55 · nero	dali	3000K	44°	2		
Vb7.650.170	argento hacca · nero	dali	3000K	44°	2		
Vb7.650.176	biancoV · bianco	dali	3000K	44°	2		
Vb7.650.272	nero55 · nero	casambi	3000K	44°	2		
Vb7.650.278	argento hacca · nero	casambi	3000K	44°	2		
Vb7.650.284	biancoV · bianco	casambi	3000K	44°	2		

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	350	27.0	1004	9.5	106
mn3097i2	vita media · average life 70000 h L90 B10								

Vb7.650.057	nero55 · nero	on-off	3500K	44°	2		
Vb7.650.063	argento hacca · nero	on-off	3500K	44°	2		
Vb7.650.069	biancoV · bianco	on-off	3500K	44°	2		
Vb7.650.165	nero55 · nero	dali	3500K	44°	2		
Vb7.650.171	argento hacca · nero	dali	3500K	44°	2		
Vb7.650.177	biancoV · bianco	dali	3500K	44°	2		
Vb7.650.273	nero55 · nero	casambi	3500K	44°	2		
Vb7.650.279	argento hacca · nero	casambi	3500K	44°	2		
Vb7.650.285	biancoV · bianco	casambi	3500K	44°	2		

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	350	27.0	1032	9.5	109
mn3597i2	vita media · average life 70000 h L90 B10								



mn adattatore VbB 30x370 h.32		240V 50/60Hz		IP40			
Vb7.650.058	nero55 · nero	on-off	2700K	70°	2		
Vb7.650.064	argento hacca · nero	on-off	2700K	70°	2		
Vb7.650.070	biancoV · bianco	on-off	2700K	70°	2		
Vb7.650.166	nero55 · nero	dali	2700K	70°	2		
Vb7.650.172	argento hacca · nero	dali	2700K	70°	2		
Vb7.650.178	biancoV · bianco	dali	2700K	70°	2		
Vb7.650.274	nero55 · nero	casambi	2700K	70°	2		
Vb7.650.280	argento hacca · nero	casambi	2700K	70°	2		
Vb7.650.286	biancoV · bianco	casambi	2700K	70°	2		

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	350	27.0	948	9.5	100
mn2797i2	vita media · average life 70000 h L90 B10								

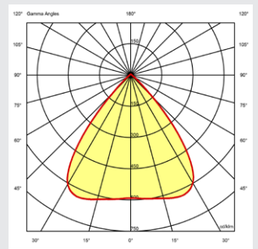
Vb7.650.059	nero55 · nero	on-off	3000K	70°	2		
Vb7.650.065	argento hacca · nero	on-off	3000K	70°	2		
Vb7.650.071	biancoV · bianco	on-off	3000K	70°	2		
Vb7.650.167	nero55 · nero	dali	3000K	70°	2		
Vb7.650.173	argento hacca · nero	dali	3000K	70°	2		
Vb7.650.179	biancoV · bianco	dali	3000K	70°	2		
Vb7.650.275	nero55 · nero	casambi	3000K	70°	2		
Vb7.650.281	argento hacca · nero	casambi	3000K	70°	2		
Vb7.650.287	biancoV · bianco	casambi	3000K	70°	2		

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	350	27.0	1004	9.5	106
mn3097i2	vita media · average life 70000 h L90 B10								

Vb7.650.060	nero55 · nero	on-off	3500K	70°	2		
Vb7.650.066	argento hacca · nero	on-off	3500K	70°	2		
Vb7.650.072	biancoV · bianco	on-off	3500K	70°	2		
Vb7.650.168	nero55 · nero	dali	3500K	70°	2		
Vb7.650.174	argento hacca · nero	dali	3500K	70°	2		
Vb7.650.180	biancoV · bianco	dali	3500K	70°	2		
Vb7.650.276	nero55 · nero	casambi	3500K	70°	2		
Vb7.650.282	argento hacca · nero	casambi	3500K	70°	2		
Vb7.650.288	biancoV · bianco	casambi	3500K	70°	2		

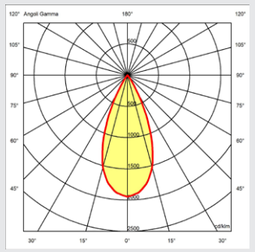
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	350	27.0	1032	9.5	109
mn3597i2	vita media · average life 70000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

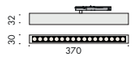


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ>65° < 1000cd/m²
Lmγ>45° < 6000cd/m²



mn adattatore traccia sistema 30X370 h.32	24Vdc	IP40				
Vb7.650.587	nero55 · nero	pwm	2700K	44°	2	
Vb7.650.593	argento hacca · nero	pwm	2700K	44°	2	
Vb7.650.599	my bianco · nero	pwm	2700K	44°	2	
Vb7.650.659	nero55 · nero	casambi	2700K	44°	2	
Vb7.650.665	argento hacca · nero	casambi	2700K	44°	2	
Vb7.650.671	my bianco · nero	casambi	2700K	44°	2	

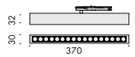
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	500	18.0	902	9.0	100
mn2797ilv2	vita media · average life 70000 h L90 B10								

Vb7.650.588	nero55 · nero	pwm	3000K	44°	2	
Vb7.650.594	argento hacca · nero	pwm	3000K	44°	2	
Vb7.650.600	my bianco · nero	pwm	3000K	44°	2	
Vb7.650.660	nero55 · nero	casambi	3000K	44°	2	
Vb7.650.666	argento hacca · nero	casambi	3000K	44°	2	
Vb7.650.672	my bianco · nero	casambi	3000K	44°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	18.0	956	9.0	106
mn3097ilv2	vita media · average life 70000 h L90 B10								

Vb7.650.589	nero55 · nero	pwm	3500K	44°	2	
Vb7.650.595	argento hacca · nero	pwm	3500K	44°	2	
Vb7.650.601	my bianco · nero	pwm	3500K	44°	2	
Vb7.650.661	nero55 · nero	casambi	3500K	44°	2	
Vb7.650.667	argento hacca · nero	casambi	3500K	44°	2	
Vb7.650.673	my bianco · nero	casambi	3500K	44°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	18.0	983	9.0	109
mn3597ilv2	vita media · average life 70000 h L90 B10								



mn adattatore traccia sistema 30X370 h.32	24Vdc	IP40				
Vb7.650.590	nero55 · nero	pwm	2700K	70°	2	
Vb7.650.596	argento hacca · nero	pwm	2700K	70°	2	
Vb7.650.602	my bianco · nero	pwm	2700K	70°	2	
Vb7.650.662	nero55 · nero	casambi	2700K	70°	2	
Vb7.650.668	argento hacca · nero	casambi	2700K	70°	2	
Vb7.650.674	my bianco · nero	casambi	2700K	70°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	500	18.0	902	9.0	100
mn2797ilv2	vita media · average life 70000 h L90 B10								

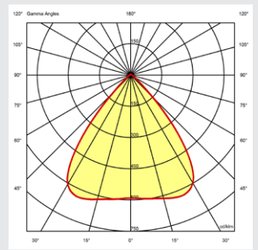
Vb7.650.591	nero55 · nero	pwm	3000K	70°	2	
Vb7.650.597	argento hacca · nero	pwm	3000K	70°	2	
Vb7.650.603	my bianco · nero	pwm	3000K	70°	2	
Vb7.650.663	nero55 · nero	casambi	3000K	70°	2	
Vb7.650.669	argento hacca · nero	casambi	3000K	70°	2	
Vb7.650.675	my bianco · nero	casambi	3000K	70°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	18.0	956	9.0	106
mn3097ilv2	vita media · average life 70000 h L90 B10								

Vb7.650.592	nero55 · nero	pwm	3500K	70°	2	
Vb7.650.598	argento hacca · nero	pwm	3500K	70°	2	
Vb7.650.604	my bianco · nero	pwm	3500K	70°	2	
Vb7.650.664	nero55 · nero	casambi	3500K	70°	2	
Vb7.650.670	argento hacca · nero	casambi	3500K	70°	2	
Vb7.650.676	my bianco · nero	casambi	3500K	70°	2	

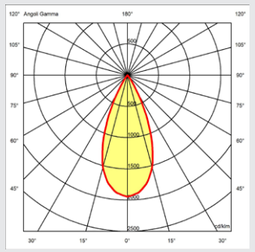
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	500	18.0	983	9.0	109
mn3597ilv2	vita media · average life 70000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

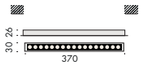


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ>65° < 1000cd/m²
Lmγ>45° < 6000cd/m²



mn incasso 30x370 h.26 IP40

Vb6.650.073	nero55	2700K	44°	2
Vb6.650.079	argento hacca	2700K	44°	2
Vb6.650.085	biancoV	2700K	44°	2

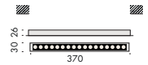
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	175	25.5	535	4.5	119
					250	26.0	724	6.5	111
					350	27.0	948	9.5	100
mn2797i2	vita media · average life 70000 h L90 B10								

Vb6.650.074	nero55	3000K	44°	2
Vb6.650.080	argento hacca	3000K	44°	2
Vb6.650.086	biancoV	3000K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	175	25.5	567	4.5	126
					250	26.0	767	6.5	118
					350	27.0	1004	9.5	106
mn3097i2	vita media · average life 70000 h L90 B10								

Vb6.650.075	nero55	3500K	44°	2
Vb6.650.081	argento hacca	3500K	44°	2
Vb6.650.087	biancoV	3500K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	175	25.5	583	4.5	130
					250	26.0	788	6.5	121
					350	27.0	1032	9.5	109
mn3597i2	vita media · average life 70000 h L90 B10								



mn incasso 30x370 h.26 IP40

Vb6.650.076	nero55	2700K	70°	2
Vb6.650.082	argento hacca	2700K	70°	2
Vb6.650.088	biancoV	2700K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	175	25.5	535	4.5	119
					250	26.0	724	6.5	111
					350	27.0	948	9.5	100
mn2797i2	vita media · average life 70000 h L90 B10								

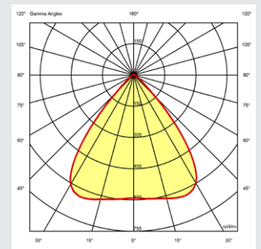
Vb6.650.077	nero55	3000K	70°	2
Vb6.650.083	argento hacca	3000K	70°	2
Vb6.650.089	biancoV	3000K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	175	25.5	567	4.5	126
					250	26.0	767	6.5	118
					350	27.0	1004	9.5	106
mn3097i2	vita media · average life 70000 h L90 B10								

Vb6.650.078	nero55	3500K	70°	2
Vb6.650.084	argento hacca	3500K	70°	2
Vb6.650.090	biancoV	3500K	70°	2

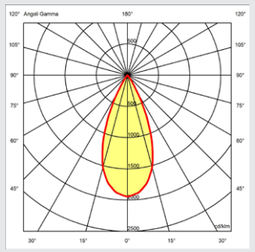
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	175	25.5	583	4.5	130
					250	26.0	788	6.5	121
					350	27.0	1032	9.5	109
mn3597i2	vita media · average life 70000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

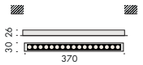


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ>65° < 1000cd/m²
Lmγ>45° < 6000cd/m²



mn incasso 30X370 a.i. h.26		240V 50/60Hz				
Vb6.650.199	nero55	on-off	2700K	44°	2	
Vb6.650.205	argento hacca	on-off	2700K	44°	2	
Vb6.650.211	biancoV	on-off	2700K	44°	2	
Vb6.650.325	nero55	dali	2700K	44°	2	
Vb6.650.331	argento hacca	dali	2700K	44°	2	
Vb6.650.337	biancoV	dali	2700K	44°	2	
Vb6.650.451	nero55	casambi	2700K	44°	2	
Vb6.650.457	argento hacca	casambi	2700K	44°	2	
Vb6.650.463	biancoV	casambi	2700K	44°	2	

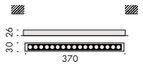
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	350	27.0	948	9.5	100
mn2797i2	vita media · average life 70000 h L90 B10								

Vb6.650.200	nero55	on-off	3000K	44°	2
Vb6.650.206	argento hacca	on-off	3000K	44°	2
Vb6.650.212	biancoV	on-off	3000K	44°	2
Vb6.650.326	nero55	dali	3000K	44°	2
Vb6.650.332	argento hacca	dali	3000K	44°	2
Vb6.650.338	biancoV	dali	3000K	44°	2
Vb6.650.452	nero55	casambi	3000K	44°	2
Vb6.650.458	argento hacca	casambi	3000K	44°	2
Vb6.650.464	biancoV	casambi	3000K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	350	27.0	1004	9.5	106
mn3097i2	vita media · average life 70000 h L90 B10								

Vb6.650.201	nero55	on-off	3500K	44°	2
Vb6.650.207	argento hacca	on-off	3500K	44°	2
Vb6.650.213	biancoV	on-off	3500K	44°	2
Vb6.650.327	nero55	dali	3500K	44°	2
Vb6.650.333	argento hacca	dali	3500K	44°	2
Vb6.650.339	biancoV	dali	3500K	44°	2
Vb6.650.453	nero55	casambi	3500K	44°	2
Vb6.650.459	argento hacca	casambi	3500K	44°	2
Vb6.650.465	biancoV	casambi	3500K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	350	27.0	1032	9.5	109
mn3597i2	vita media · average life 70000 h L90 B10								



mn incasso 30X370 a.i. h.26		240V 50/60Hz				
Vb6.650.202	nero55	on-off	2700K	70°	2	
Vb6.650.208	argento hacca	on-off	2700K	70°	2	
Vb6.650.214	biancoV	on-off	2700K	70°	2	
Vb6.650.328	nero55	dali	2700K	70°	2	
Vb6.650.334	argento hacca	dali	2700K	70°	2	
Vb6.650.340	biancoV	dali	2700K	70°	2	
Vb6.650.454	nero55	casambi	2700K	70°	2	
Vb6.650.460	argento hacca	casambi	2700K	70°	2	
Vb6.650.466	biancoV	casambi	2700K	70°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	350	27.0	948	9.5	100
mn2797i2	vita media · average life 70000 h L90 B10								

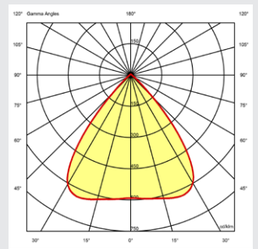
Vb6.650.203	nero55	on-off	3000K	70°	2
Vb6.650.209	argento hacca	on-off	3000K	70°	2
Vb6.650.215	biancoV	on-off	3000K	70°	2
Vb6.650.329	nero55	dali	3000K	70°	2
Vb6.650.335	argento hacca	dali	3000K	70°	2
Vb6.650.341	biancoV	dali	3000K	70°	2
Vb6.650.455	nero55	casambi	3000K	70°	2
Vb6.650.461	argento hacca	casambi	3000K	70°	2
Vb6.650.467	biancoV	casambi	3000K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	350	27.0	1004	9.5	106
mn3097i2	vita media · average life 70000 h L90 B10								

Vb6.650.204	nero55	on-off	3500K	70°	2
Vb6.650.210	argento hacca	on-off	3500K	70°	2
Vb6.650.216	biancoV	on-off	3500K	70°	2
Vb6.650.330	nero55	dali	3500K	70°	2
Vb6.650.336	argento hacca	dali	3500K	70°	2
Vb6.650.342	biancoV	dali	3500K	70°	2
Vb6.650.456	nero55	casambi	3500K	70°	2
Vb6.650.462	argento hacca	casambi	3500K	70°	2
Vb6.650.468	biancoV	casambi	3500K	70°	2

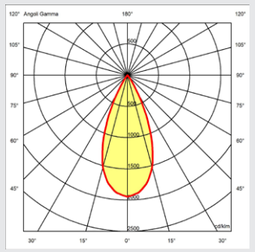
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	350	27.0	1032	9.5	109
mn3597i2	vita media · average life 70000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

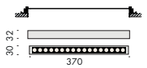


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ >65° < 1000cd/m²
Lmγ >45° < 6000cd/m²



mn scomparsa totale 30x370 h.32 IP40

Vb6.650.691	nero55	2700K	44°	2
Vb6.650.697	argento hacca	2700K	44°	2
Vb6.650.703	biancoV	2700K	44°	2

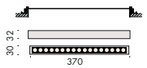
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	175	25.5	535	4.5	119
					250	26.0	724	6.5	111
					350	27.0	948	9.5	100
mn2797i2	vita media · average life 70000 h L90 B10								

Vb6.650.692	nero55	3000K	44°	2
Vb6.650.698	argento hacca	3000K	44°	2
Vb6.650.704	biancoV	3000K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	175	25.5	567	4.5	126
					250	26.0	767	6.5	118
					350	27.0	1004	9.5	106
mn3097i2	vita media · average life 70000 h L90 B10								

Vb6.650.693	nero55	3500K	44°	2
Vb6.650.699	argento hacca	3500K	44°	2
Vb6.650.705	biancoV	3500K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	175	25.5	583	4.5	130
					250	26.0	788	6.5	121
					350	27.0	1032	9.5	109
mn3597i2	vita media · average life 70000 h L90 B10								



mn scomparsa totale 30x370 h.32 IP40

Vb6.650.694	nero55	2700K	70°	2
Vb6.650.700	argento hacca	2700K	70°	2
Vb6.650.706	biancoV	2700K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	175	25.5	535	4.5	119
					250	26.0	724	6.5	111
					350	27.0	948	9.5	100
mn2797i2	vita media · average life 70000 h L90 B10								

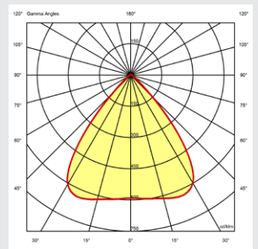
Vb6.650.695	nero55	3000K	70°	2
Vb6.650.701	argento hacca	3000K	70°	2
Vb6.650.707	biancoV	3000K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	175	25.5	567	4.5	126
					250	26.0	767	6.5	118
					350	27.0	1004	9.5	106
mn3097i2	vita media · average life 70000 h L90 B10								

Vb6.650.696	nero55	3500K	70°	2
Vb6.650.702	argento hacca	3500K	70°	2
Vb6.650.708	biancoV	3500K	70°	2

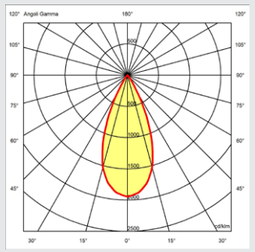
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	175	25.5	583	4.5	130
					250	26.0	788	6.5	121
					350	27.0	1032	9.5	109
mn3597i2	vita media · average life 70000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

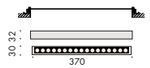


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ>65° < 1000cd/m²
Lmγ>45° < 6000cd/m²



mn scomparsa totale 30x370 a.i. h.32		240V 50/60Hz		IP40			
Vb6.650.835	nero55	on-off			2700K	44°	2
Vb6.650.841	argento hacca	on-off			2700K	44°	2
Vb6.650.847	biancoV	on-off			2700K	44°	2
Vb6.650.979	nero55	dali			2700K	44°	2
Vb6.650.985	argento hacca	dali			2700K	44°	2
Vb6.650.991	biancoV	dali			2700K	44°	2
Vb6.650.1123	nero55	casambi			2700K	44°	2
Vb6.650.1129	argento hacca	casambi			2700K	44°	2
Vb6.650.1135	biancoV	casambi			2700K	44°	2

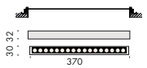
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	350	27.0	948	9.5	100
mn2797i2	vita media · average life 70000 h L90 B10								

Vb6.650.836	nero55	on-off		3000K	44°	2
Vb6.650.842	argento hacca	on-off		3000K	44°	2
Vb6.650.848	biancoV	on-off		3000K	44°	2
Vb6.650.980	nero55	dali		3000K	44°	2
Vb6.650.986	argento hacca	dali		3000K	44°	2
Vb6.650.992	biancoV	dali		3000K	44°	2
Vb6.650.1124	nero55	casambi		3000K	44°	2
Vb6.650.1130	argento hacca	casambi		3000K	44°	2
Vb6.650.1136	biancoV	casambi		3000K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	350	27.0	1004	9.5	106
mn3097i2	vita media · average life 70000 h L90 B10								

Vb6.650.837	nero55	on-off		3500K	44°	2
Vb6.650.843	argento hacca	on-off		3500K	44°	2
Vb6.650.849	biancoV	on-off		3500K	44°	2
Vb6.650.981	nero55	dali		3500K	44°	2
Vb6.650.987	argento hacca	dali		3500K	44°	2
Vb6.650.993	biancoV	dali		3500K	44°	2
Vb6.650.1125	nero55	casambi		3500K	44°	2
Vb6.650.1131	argento hacca	casambi		3500K	44°	2
Vb6.650.1137	biancoV	casambi		3500K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	350	27.0	1032	9.5	109
mn3597i2	vita media · average life 70000 h L90 B10								



mn scomparsa totale 30x370 a.i. h.32		240V 50/60Hz		IP40			
Vb6.650.838	nero55	on-off			2700K	70°	2
Vb6.650.844	argento hacca	on-off			2700K	70°	2
Vb6.650.850	biancoV	on-off			2700K	70°	2
Vb6.650.982	nero55	dali			2700K	70°	2
Vb6.650.988	argento hacca	dali			2700K	70°	2
Vb6.650.994	biancoV	dali			2700K	70°	2
Vb6.650.1126	nero55	casambi			2700K	70°	2
Vb6.650.1132	argento hacca	casambi			2700K	70°	2
Vb6.650.1138	biancoV	casambi			2700K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	350	27.0	948	9.5	100
mn2797i2	vita media · average life 70000 h L90 B10								

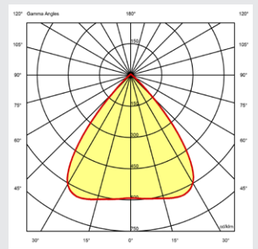
Vb6.650.839	nero55	on-off		3000K	70°	2
Vb6.650.845	argento hacca	on-off		3000K	70°	2
Vb6.650.851	biancoV	on-off		3000K	70°	2
Vb6.650.983	nero55	dali		3000K	70°	2
Vb6.650.989	argento hacca	dali		3000K	70°	2
Vb6.650.995	biancoV	dali		3000K	70°	2
Vb6.650.1127	nero55	casambi		3000K	70°	2
Vb6.650.1133	argento hacca	casambi		3000K	70°	2
Vb6.650.1139	biancoV	casambi		3000K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	350	27.0	1004	9.5	106
mn3097i2	vita media · average life 70000 h L90 B10								

Vb6.650.840	nero55	on-off		3500K	70°	2
Vb6.650.846	argento hacca	on-off		3500K	70°	2
Vb6.650.852	biancoV	on-off		3500K	70°	2
Vb6.650.984	nero55	dali		3500K	70°	2
Vb6.650.990	argento hacca	dali		3500K	70°	2
Vb6.650.996	biancoV	dali		3500K	70°	2
Vb6.650.1128	nero55	casambi		3500K	70°	2
Vb6.650.1134	argento hacca	casambi		3500K	70°	2
Vb6.650.1140	biancoV	casambi		3500K	70°	2

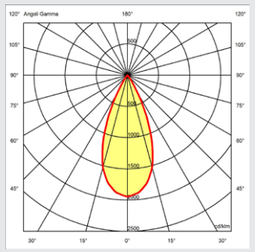
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	350	27.0	1032	9.5	109
mn3597i2	vita media · average life 70000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

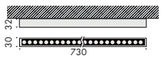


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ>65° < 1000cd/m²
Lmγ>45° < 6000cd/m²



mn soffitto 30x730 h.32 IP40

Vb5.650.109	nero55	2700K	44°	2
Vb5.650.115	argento hacca	2700K	44°	2
Vb5.650.121	biancoV	2700K	44°	2

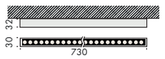
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	350	25.5	1070	8.9	120
					500	26.0	1448	13.0	111
					700	27.0	1896	18.9	100
mn2797i4	vita media · average life 70000 h L90 B10								

Vb5.650.110	nero55	3000K	44°	2
Vb5.650.116	argento hacca	3000K	44°	2
Vb5.650.122	biancoV	3000K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	350	25.5	1134	8.9	127
					500	26.0	1534	13.0	118
					700	27.0	2008	18.9	106
mn3097i4	vita media · average life 70000 h L90 B10								

Vb5.650.111	nero55	3500K	44°	2
Vb5.650.117	argento hacca	3500K	44°	2
Vb5.650.123	biancoV	3500K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	350	25.5	1166	4.0	292
					500	26.0	1576	13.0	121
					700	27.0	2064	18.9	109
mn3597i4	vita media · average life 70000 h L90 B10								



mn soffitto 30x730 h.32 IP40

Vb5.650.112	nero55	2700K	70°	2
Vb5.650.118	argento hacca	2700K	70°	2
Vb5.650.124	biancoV	2700K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	350	25.5	1070	8.9	120
					500	26.0	1448	13.0	111
					700	27.0	1896	18.9	100
mn2797i4	vita media · average life 70000 h L90 B10								

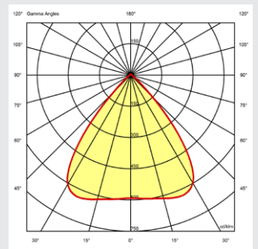
Vb5.650.113	nero55	3000K	70°	2
Vb5.650.119	argento hacca	3000K	70°	2
Vb5.650.125	biancoV	3000K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	350	25.5	1134	8.9	127
					500	26.0	1534	13.0	118
					700	27.0	2008	18.9	106
mn3097i4	vita media · average life 70000 h L90 B10								

Vb5.650.114	nero55	3500K	70°	2
Vb5.650.120	argento hacca	3500K	70°	2
Vb5.650.126	biancoV	3500K	70°	2

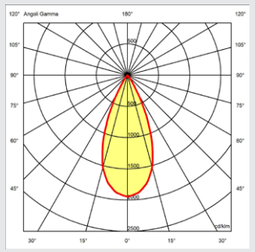
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	350	25.5	1166	4.0	292
					500	26.0	1576	13.0	121
					700	27.0	2064	18.9	109
mn3597i4	vita media · average life 70000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

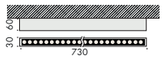


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ >65° < 1000cd/m²
Lmγ >45° < 6000cd/m²



mn soffitto 30x730 a.i. h.60		240V 50/60Hz		IP40		
Vb5.650.253	nero55	on-off	2700K	44°	2	
Vb5.650.259	argento hacca	on-off	2700K	44°	2	
Vb5.650.265	biancoV	on-off	2700K	44°	2	
Vb5.650.397	nero55	dali	2700K	44°	2	
Vb5.650.403	argento hacca	dali	2700K	44°	2	
Vb5.650.409	biancoV	dali	2700K	44°	2	
Vb5.650.541	nero55	casambi	2700K	44°	2	
Vb5.650.547	argento hacca	casambi	2700K	44°	2	
Vb5.650.553	biancoV	casambi	2700K	44°	2	

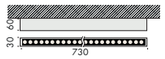
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	700	27.0	1896	18.9	100
mn2797i4	vita media · average life 70000 h L90 B10								

Vb5.650.254	nero55	on-off	3000K	44°	2	
Vb5.650.260	argento hacca	on-off	3000K	44°	2	
Vb5.650.266	biancoV	on-off	3000K	44°	2	
Vb5.650.398	nero55	dali	3000K	44°	2	
Vb5.650.404	argento hacca	dali	3000K	44°	2	
Vb5.650.410	biancoV	dali	3000K	44°	2	
Vb5.650.542	nero55	casambi	3000K	44°	2	
Vb5.650.548	argento hacca	casambi	3000K	44°	2	
Vb5.650.554	biancoV	casambi	3000K	44°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	27.0	2008	18.9	106
mn3097i4	vita media · average life 70000 h L90 B10								

Vb5.650.255	nero55	on-off	3500K	44°	2	
Vb5.650.261	argento hacca	on-off	3500K	44°	2	
Vb5.650.267	biancoV	on-off	3500K	44°	2	
Vb5.650.399	nero55	dali	3500K	44°	2	
Vb5.650.405	argento hacca	dali	3500K	44°	2	
Vb5.650.411	biancoV	dali	3500K	44°	2	
Vb5.650.543	nero55	casambi	3500K	44°	2	
Vb5.650.549	argento hacca	casambi	3500K	44°	2	
Vb5.650.555	biancoV	casambi	3500K	44°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	27.0	2064	18.9	109
mn3597i4	vita media · average life 70000 h L90 B10								



mn soffitto 30x730 a.i. h.60		240V 50/60Hz		IP40		
Vb5.650.256	nero55	on-off	2700K	70°	2	
Vb5.650.262	argento hacca	on-off	2700K	70°	2	
Vb5.650.268	biancoV	on-off	2700K	70°	2	
Vb5.650.400	nero55	dali	2700K	70°	2	
Vb5.650.406	argento hacca	dali	2700K	70°	2	
Vb5.650.412	biancoV	dali	2700K	70°	2	
Vb5.650.544	nero55	casambi	2700K	70°	2	
Vb5.650.550	argento hacca	casambi	2700K	70°	2	
Vb5.650.556	biancoV	casambi	2700K	70°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	700	27.0	1896	18.9	100
mn2797i4	vita media · average life 70000 h L90 B10								

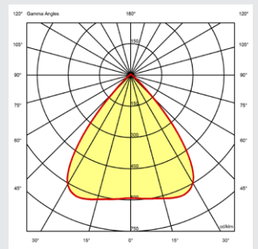
Vb5.650.257	nero55	on-off	3000K	70°	2	
Vb5.650.263	argento hacca	on-off	3000K	70°	2	
Vb5.650.269	biancoV	on-off	3000K	70°	2	
Vb5.650.401	nero55	dali	3000K	70°	2	
Vb5.650.407	argento hacca	dali	3000K	70°	2	
Vb5.650.413	biancoV	dali	3000K	70°	2	
Vb5.650.545	nero55	casambi	3000K	70°	2	
Vb5.650.551	argento hacca	casambi	3000K	70°	2	
Vb5.650.557	biancoV	casambi	3000K	70°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	27.0	2008	18.9	106
mn3097i4	vita media · average life 70000 h L90 B10								

Vb5.650.258	nero55	on-off	3500K	70°	2	
Vb5.650.264	argento hacca	on-off	3500K	70°	2	
Vb5.650.270	biancoV	on-off	3500K	70°	2	
Vb5.650.402	nero55	dali	3500K	70°	2	
Vb5.650.408	argento hacca	dali	3500K	70°	2	
Vb5.650.414	biancoV	dali	3500K	70°	2	
Vb5.650.546	nero55	casambi	3500K	70°	2	
Vb5.650.552	argento hacca	casambi	3500K	70°	2	
Vb5.650.558	biancoV	casambi	3500K	70°	2	

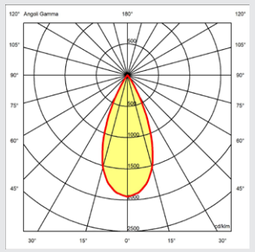
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	27.0	2064	18.9	109
mn3597i4	vita media · average life 70000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

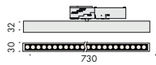


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ >65° < 1000cd/m²
Lmγ >45° < 6000cd/m²



mn adattatore A1 30x730 h.32			48Vdc	IP40		
Vb7.650.403	nero55 · nero	on-off	2700K	44°	2	
Vb7.650.409	argento hacca · nero	on-off	2700K	44°	2	
Vb7.650.415	biancoV · nero	on-off	2700K	44°	2	
Vb7.650.511	nero55 · nero	casambi	2700K	44°	2	
Vb7.650.517	argento hacca · nero	casambi	2700K	44°	2	
Vb7.650.523	biancoV · nero	casambi	2700K	44°	2	

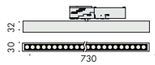
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	700	27.0	1896	18.9	100
mn2797i4	vita media · average life 70000 h L90 B10								

Vb7.650.404	nero55 · nero	on-off	3000K	44°	2	
Vb7.650.410	argento hacca · nero	on-off	3000K	44°	2	
Vb7.650.416	biancoV · nero	on-off	3000K	44°	2	
Vb7.650.512	nero55 · nero	casambi	3000K	44°	2	
Vb7.650.518	argento hacca · nero	casambi	3000K	44°	2	
Vb7.650.524	biancoV · nero	casambi	3000K	44°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	27.0	2008	18.9	106
mn3097i4	vita media · average life 70000 h L90 B10								

Vb7.650.405	nero55 · nero	on-off	3500K	44°	2	
Vb7.650.411	argento hacca · nero	on-off	3500K	44°	2	
Vb7.650.417	biancoV · nero	on-off	3500K	44°	2	
Vb7.650.513	nero55 · nero	casambi	3500K	44°	2	
Vb7.650.519	argento hacca · nero	casambi	3500K	44°	2	
Vb7.650.525	biancoV · nero	casambi	3500K	44°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	27.0	2064	18.9	109
mn3597i4	vita media · average life 70000 h L90 B10								



mn adattatore A1 30x730 h.32			48Vdc	IP40		
Vb7.650.406	nero55 · nero	on-off	2700K	70°	2	
Vb7.650.412	argento hacca · nero	on-off	2700K	70°	2	
Vb7.650.418	biancoV · nero	on-off	2700K	70°	2	
Vb7.650.514	nero55 · nero	casambi	2700K	70°	2	
Vb7.650.520	argento hacca · nero	casambi	2700K	70°	2	
Vb7.650.526	biancoV · nero	casambi	2700K	70°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	700	27.0	1896	18.9	100
mn2797i4	vita media · average life 70000 h L90 B10								

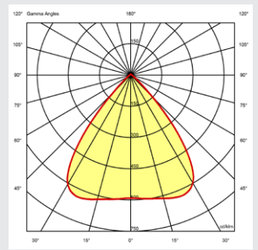
Vb7.650.407	nero55 · nero	on-off	3000K	70°	2	
Vb7.650.413	argento hacca · nero	on-off	3000K	70°	2	
Vb7.650.419	biancoV · nero	on-off	3000K	70°	2	
Vb7.650.515	nero55 · nero	casambi	3000K	70°	2	
Vb7.650.521	argento hacca · nero	casambi	3000K	70°	2	
Vb7.650.527	biancoV · nero	casambi	3000K	70°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	27.0	2008	18.9	106
mn3097i4	vita media · average life 70000 h L90 B10								

Vb7.650.408	nero55 · nero	on-off	3500K	70°	2	
Vb7.650.414	argento hacca · nero	on-off	3500K	70°	2	
Vb7.650.420	biancoV · nero	on-off	3500K	70°	2	
Vb7.650.516	nero55 · nero	casambi	3500K	70°	2	
Vb7.650.522	argento hacca · nero	casambi	3500K	70°	2	
Vb7.650.528	biancoV · nero	casambi	3500K	70°	2	

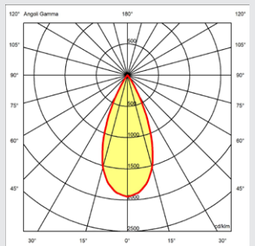
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	27.0	2064	18.9	109
mn3597i4	vita media · average life 70000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

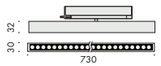


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ >65° < 1000cd/m²
Lmγ >45° < 6000cd/m²



mn adattatore VbB 30x730 h.32		240V 50/60Hz		IP40			
Vb7.650.073	nero55 · nero	on-off	2700K	44°	2		
Vb7.650.079	argento hacca · nero	on-off	2700K	44°	2		
Vb7.650.085	biancoV · bianco	on-off	2700K	44°	2		
Vb7.650.181	nero55 · nero	dali	2700K	44°	2		
Vb7.650.187	argento hacca · nero	dali	2700K	44°	2		
Vb7.650.193	biancoV · bianco	dali	2700K	44°	2		
Vb7.650.289	nero55 · nero	casambi	2700K	44°	2		
Vb7.650.295	argento hacca · nero	casambi	2700K	44°	2		
Vb7.650.301	biancoV · bianco	casambi	2700K	44°	2		

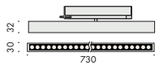
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	700	27.0	1896	18.9	100
mn2797i4	vita media · average life 70000 h L90 B10								

Vb7.650.074	nero55 · nero	on-off	3000K	44°	2		
Vb7.650.080	argento hacca · nero	on-off	3000K	44°	2		
Vb7.650.086	biancoV · bianco	on-off	3000K	44°	2		
Vb7.650.182	nero55 · nero	dali	3000K	44°	2		
Vb7.650.188	argento hacca · nero	dali	3000K	44°	2		
Vb7.650.194	biancoV · bianco	dali	3000K	44°	2		
Vb7.650.290	nero55 · nero	casambi	3000K	44°	2		
Vb7.650.296	argento hacca · nero	casambi	3000K	44°	2		
Vb7.650.302	biancoV · bianco	casambi	3000K	44°	2		

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	27.0	2008	18.9	106
mn3097i4	vita media · average life 70000 h L90 B10								

Vb7.650.075	nero55 · nero	on-off	3500K	44°	2		
Vb7.650.081	argento hacca · nero	on-off	3500K	44°	2		
Vb7.650.087	biancoV · bianco	on-off	3500K	44°	2		
Vb7.650.183	nero55 · nero	dali	3500K	44°	2		
Vb7.650.189	argento hacca · nero	dali	3500K	44°	2		
Vb7.650.195	biancoV · bianco	dali	3500K	44°	2		
Vb7.650.291	nero55 · nero	casambi	3500K	44°	2		
Vb7.650.297	argento hacca · nero	casambi	3500K	44°	2		
Vb7.650.303	biancoV · bianco	casambi	3500K	44°	2		

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	27.0	2064	18.9	109
mn3597i4	vita media · average life 70000 h L90 B10								



mn adattatore VbB 30x730 h.32		240V 50/60Hz		IP40			
Vb7.650.076	nero55 · nero	on-off	2700K	70°	2		
Vb7.650.082	argento hacca · nero	on-off	2700K	70°	2		
Vb7.650.088	biancoV · bianco	on-off	2700K	70°	2		
Vb7.650.184	nero55 · nero	dali	2700K	70°	2		
Vb7.650.190	argento hacca · nero	dali	2700K	70°	2		
Vb7.650.196	biancoV · bianco	dali	2700K	70°	2		
Vb7.650.292	nero55 · nero	casambi	2700K	70°	2		
Vb7.650.298	argento hacca · nero	casambi	2700K	70°	2		
Vb7.650.304	biancoV · bianco	casambi	2700K	70°	2		

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	700	27.0	1896	18.9	100
mn2797i4	vita media · average life 70000 h L90 B10								

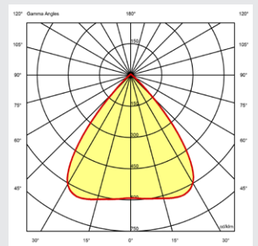
Vb7.650.077	nero55 · nero	on-off	3000K	70°	2		
Vb7.650.083	argento hacca · nero	on-off	3000K	70°	2		
Vb7.650.089	biancoV · bianco	on-off	3000K	70°	2		
Vb7.650.185	nero55 · nero	dali	3000K	70°	2		
Vb7.650.191	argento hacca · nero	dali	3000K	70°	2		
Vb7.650.197	biancoV · bianco	dali	3000K	70°	2		
Vb7.650.293	nero55 · nero	casambi	3000K	70°	2		
Vb7.650.299	argento hacca · nero	casambi	3000K	70°	2		
Vb7.650.305	biancoV · bianco	casambi	3000K	70°	2		

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	27.0	2008	18.9	106
mn3097i4	vita media · average life 70000 h L90 B10								

Vb7.650.078	nero55 · nero	on-off	3500K	70°	2		
Vb7.650.084	argento hacca · nero	on-off	3500K	70°	2		
Vb7.650.090	biancoV · bianco	on-off	3500K	70°	2		
Vb7.650.186	nero55 · nero	dali	3500K	70°	2		
Vb7.650.192	argento hacca · nero	dali	3500K	70°	2		
Vb7.650.198	biancoV · bianco	dali	3500K	70°	2		
Vb7.650.294	nero55 · nero	casambi	3500K	70°	2		
Vb7.650.300	argento hacca · nero	casambi	3500K	70°	2		
Vb7.650.306	biancoV · bianco	casambi	3500K	70°	2		

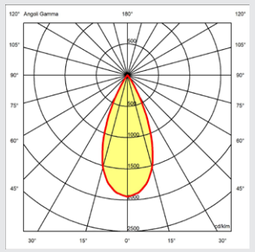
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	27.0	2064	18.9	109
mn3597i4	vita media · average life 70000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

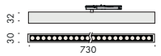


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ>65° < 1000cd/m²
Lmγ>45° < 6000cd/m²



mn adattatore traccia sistema 30X730 h.32			24Vdc	IP40		
Vb7.650.605	nero55 · nero	pwm	2700K	44°	2	
Vb7.650.611	argento hacca · nero	pwm	2700K	44°	2	
Vb7.650.617	my bianco · nero	pwm	2700K	44°	2	
Vb7.650.677	nero55 · nero	casambi	2700K	44°	2	
Vb7.650.683	argento hacca · nero	casambi	2700K	44°	2	
Vb7.650.689	my bianco · nero	casambi	2700K	44°	2	

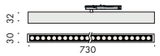
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	700	17.5	1351	12.3	111
mn2797ilv4	vita media · average life 70000 h L90 B10								

Vb7.650.606	nero55 · nero	pwm	3000K	44°	2	
Vb7.650.612	argento hacca · nero	pwm	3000K	44°	2	
Vb7.650.618	my bianco · nero	pwm	3000K	44°	2	
Vb7.650.678	nero55 · nero	casambi	3000K	44°	2	
Vb7.650.684	argento hacca · nero	casambi	3000K	44°	2	
Vb7.650.690	my bianco · nero	casambi	3000K	44°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	17.5	1432	12.3	117
mn3097ilv4	vita media · average life 70000 h L90 B10								

Vb7.650.607	nero55 · nero	pwm	3500K	44°	2	
Vb7.650.613	argento hacca · nero	pwm	3500K	44°	2	
Vb7.650.619	my bianco · nero	pwm	3500K	44°	2	
Vb7.650.679	nero55 · nero	casambi	3500K	44°	2	
Vb7.650.685	argento hacca · nero	casambi	3500K	44°	2	
Vb7.650.691	my bianco · nero	casambi	3500K	44°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	17.5	1472	12.3	121
mn3597ilv4	vita media · average life 70000 h L90 B10								



mn adattatore traccia sistema 30X730 h.32			24Vdc	IP40		
Vb7.650.608	nero55 · nero	pwm	2700K	70°	2	
Vb7.650.614	argento hacca · nero	pwm	2700K	70°	2	
Vb7.650.620	my bianco · nero	pwm	2700K	70°	2	
Vb7.650.680	nero55 · nero	casambi	2700K	70°	2	
Vb7.650.686	argento hacca · nero	casambi	2700K	70°	2	
Vb7.650.692	my bianco · nero	casambi	2700K	70°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	700	17.5	1351	12.3	111
mn2797ilv4	vita media · average life 70000 h L90 B10								

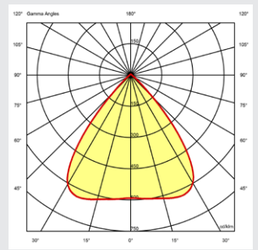
Vb7.650.609	nero55 · nero	pwm	3000K	70°	2	
Vb7.650.615	argento hacca · nero	pwm	3000K	70°	2	
Vb7.650.621	my bianco · nero	pwm	3000K	70°	2	
Vb7.650.681	nero55 · nero	casambi	3000K	70°	2	
Vb7.650.687	argento hacca · nero	casambi	3000K	70°	2	
Vb7.650.693	my bianco · nero	casambi	3000K	70°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	17.5	1432	12.3	117
mn3097ilv4	vita media · average life 70000 h L90 B10								

Vb7.650.610	nero55 · nero	pwm	3500K	70°	2	
Vb7.650.616	argento hacca · nero	pwm	3500K	70°	2	
Vb7.650.622	my bianco · nero	pwm	3500K	70°	2	
Vb7.650.682	nero55 · nero	casambi	3500K	70°	2	
Vb7.650.688	argento hacca · nero	casambi	3500K	70°	2	
Vb7.650.694	my bianco · nero	casambi	3500K	70°	2	

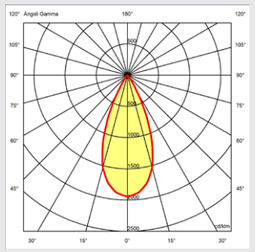
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	17.5	1472	12.3	121
mn3597ilv4	vita media · average life 70000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

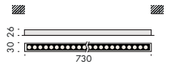


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ>65° < 1000cd/m²
Lmγ>45° < 6000cd/m²



mn incasso 30x730 h.26 IP40

Vb6.650.091	nero55	2700K	44°	2
Vb6.650.097	argento hacca	2700K	44°	2
Vb6.650.103	biancoV	2700K	44°	2

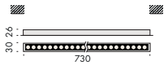
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	350	25.5	1070	8.9	120
					500	26.0	1448	13.0	111
					700	27.0	1896	18.9	100
mn2797i4	vita media · average life 70000 h L90 B10								

Vb6.650.092	nero55	3000K	44°	2
Vb6.650.098	argento hacca	3000K	44°	2
Vb6.650.104	biancoV	3000K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	25.4	2268	17.8	127
					1050	26.0	3220	27.4	118
					1400	27.0	4014	37.8	106
mn3097i8	vita media · average life 70000 h L90 B10								

Vb6.650.093	nero55	3500K	44°	2
Vb6.650.099	argento hacca	3500K	44°	2
Vb6.650.105	biancoV	3500K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	350	25.5	1166	4.0	292
					500	26.0	1576	13.0	121
					700	27.0	2064	18.9	109
mn3597i4	vita media · average life 70000 h L90 B10								



mn incasso 30x730 h.26 IP40

Vb6.650.094	nero55	2700K	70°	2
Vb6.650.100	argento hacca	2700K	70°	2
Vb6.650.106	biancoV	2700K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	350	25.5	1070	8.9	120
					500	26.0	1448	13.0	111
					700	27.0	1896	18.9	100
mn2797i4	vita media · average life 70000 h L90 B10								

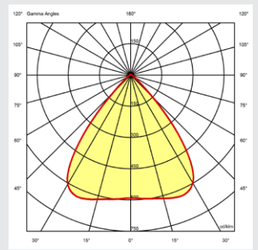
Vb6.650.095	nero55	3000K	70°	2
Vb6.650.101	argento hacca	3000K	70°	2
Vb6.650.107	biancoV	3000K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	25.4	2268	17.8	127
					1050	26.0	3220	27.4	118
					1400	27.0	4014	37.8	106
mn3097i8	vita media · average life 70000 h L90 B10								

Vb6.650.096	nero55	3500K	70°	2
Vb6.650.102	argento hacca	3500K	70°	2
Vb6.650.108	biancoV	3500K	70°	2

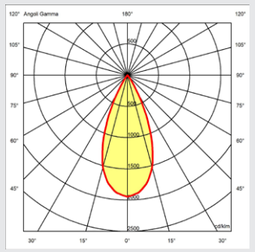
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	350	25.5	1166	4.0	292
					500	26.0	1576	13.0	121
					700	27.0	2064	18.9	109
mn3597i4	vita media · average life 70000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

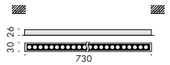


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ >65° < 1000cd/m²
Lmγ >45° < 6000cd/m²



mn incasso 30X730 a.i. h.26		240V 50/60Hz				
Vb6.650.217	nero55	on-off	2700K	44°	2	
Vb6.650.223	argento hacca	on-off	2700K	44°	2	
Vb6.650.229	biancoV	on-off	2700K	44°	2	
Vb6.650.343	nero55	dali	2700K	44°	2	
Vb6.650.349	argento hacca	dali	2700K	44°	2	
Vb6.650.355	biancoV	dali	2700K	44°	2	
Vb6.650.469	nero55	casambi	2700K	44°	2	
Vb6.650.475	argento hacca	casambi	2700K	44°	2	
Vb6.650.481	biancoV	casambi	2700K	44°	2	

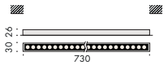
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	700	27.0	1896	18.9	100
mn2797i4	vita media · average life 70000 h L90 B10								

Vb6.650.218	nero55	on-off	3000K	44°	2
Vb6.650.224	argento hacca	on-off	3000K	44°	2
Vb6.650.230	biancoV	on-off	3000K	44°	2
Vb6.650.344	nero55	dali	3000K	44°	2
Vb6.650.350	argento hacca	dali	3000K	44°	2
Vb6.650.356	biancoV	dali	3000K	44°	2
Vb6.650.470	nero55	casambi	3000K	44°	2
Vb6.650.476	argento hacca	casambi	3000K	44°	2
Vb6.650.482	biancoV	casambi	3000K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	27.0	2008	18.9	106
mn3097i4	vita media · average life 70000 h L90 B10								

Vb6.650.219	nero55	on-off	3500K	44°	2
Vb6.650.225	argento hacca	on-off	3500K	44°	2
Vb6.650.231	biancoV	on-off	3500K	44°	2
Vb6.650.345	nero55	dali	3500K	44°	2
Vb6.650.351	argento hacca	dali	3500K	44°	2
Vb6.650.357	biancoV	dali	3500K	44°	2
Vb6.650.471	nero55	casambi	3500K	44°	2
Vb6.650.477	argento hacca	casambi	3500K	44°	2
Vb6.650.483	biancoV	casambi	3500K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	27.0	2064	18.9	109
mn3597i4	vita media · average life 70000 h L90 B10								



mn incasso 30X730 a.i. h.26		240V 50/60Hz				
Vb6.650.220	nero55	on-off	2700K	70°	2	
Vb6.650.226	argento hacca	on-off	2700K	70°	2	
Vb6.650.232	biancoV	on-off	2700K	70°	2	
Vb6.650.346	nero55	dali	2700K	70°	2	
Vb6.650.352	argento hacca	dali	2700K	70°	2	
Vb6.650.358	biancoV	dali	2700K	70°	2	
Vb6.650.472	nero55	casambi	2700K	70°	2	
Vb6.650.478	argento hacca	casambi	2700K	70°	2	
Vb6.650.484	biancoV	casambi	2700K	70°	2	

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	700	27.0	1896	18.9	100
mn2797i4	vita media · average life 70000 h L90 B10								

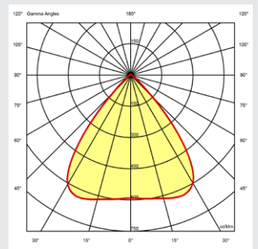
Vb6.650.221	nero55	on-off	3000K	70°	2
Vb6.650.227	argento hacca	on-off	3000K	70°	2
Vb6.650.233	biancoV	on-off	3000K	70°	2
Vb6.650.347	nero55	dali	3000K	70°	2
Vb6.650.353	argento hacca	dali	3000K	70°	2
Vb6.650.359	biancoV	dali	3000K	70°	2
Vb6.650.473	nero55	casambi	3000K	70°	2
Vb6.650.479	argento hacca	casambi	3000K	70°	2
Vb6.650.485	biancoV	casambi	3000K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	27.0	2008	18.9	106
mn3097i4	vita media · average life 70000 h L90 B10								

Vb6.650.222	nero55	on-off	3500K	70°	2
Vb6.650.228	argento hacca	on-off	3500K	70°	2
Vb6.650.234	biancoV	on-off	3500K	70°	2
Vb6.650.348	nero55	dali	3500K	70°	2
Vb6.650.354	argento hacca	dali	3500K	70°	2
Vb6.650.360	biancoV	dali	3500K	70°	2
Vb6.650.474	nero55	casambi	3500K	70°	2
Vb6.650.480	argento hacca	casambi	3500K	70°	2
Vb6.650.486	biancoV	casambi	3500K	70°	2

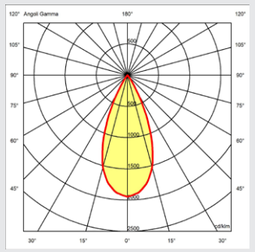
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	27.0	2064	18.9	109
mn3597i4	vita media · average life 70000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

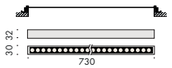


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ >65° < 1000cd/m²
Lmγ >45° < 6000cd/m²



mn scomparsa totale 30x730 h.32 IP40

Vb6.650.709	nero55	2700K	44°	2
Vb6.650.715	argento hacca	2700K	44°	2
Vb6.650.721	biancoV	2700K	44°	2

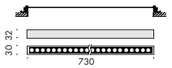
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	350	25.5	1070	8.9	120
					500	26.0	1448	13.0	111
					700	27.0	1896	18.9	100
mn2797i4	vita media · average life 70000 h L90 B10								

Vb6.650.710	nero55	3000K	44°	2
Vb6.650.716	argento hacca	3000K	44°	2
Vb6.650.722	biancoV	3000K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	350	25.5	1134	8.9	127
					500	26.0	1534	13.0	118
					700	27.0	2008	18.9	106
mn3097i4	vita media · average life 70000 h L90 B10								

Vb6.650.711	nero55	3500K	44°	2
Vb6.650.717	argento hacca	3500K	44°	2
Vb6.650.723	biancoV	3500K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	350	25.5	1166	4.0	292
					500	26.0	1576	13.0	121
					700	27.0	2064	18.9	109
mn3597i4	vita media · average life 70000 h L90 B10								



mn scomparsa totale 30x730 h.32 IP40

Vb6.650.712	nero55	2700K	70°	2
Vb6.650.718	argento hacca	2700K	70°	2
Vb6.650.724	biancoV	2700K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	350	25.5	1070	8.9	120
					500	26.0	1448	13.0	111
					700	27.0	1896	18.9	100
mn2797i4	vita media · average life 70000 h L90 B10								

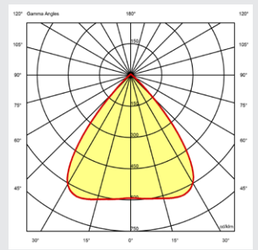
Vb6.650.713	nero55	3000K	70°	2
Vb6.650.719	argento hacca	3000K	70°	2
Vb6.650.725	biancoV	3000K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	350	25.5	1134	8.9	127
					500	26.0	1534	13.0	118
					700	27.0	2008	18.9	106
mn3097i4	vita media · average life 70000 h L90 B10								

Vb6.650.714	nero55	3500K	70°	2
Vb6.650.720	argento hacca	3500K	70°	2
Vb6.650.726	biancoV	3500K	70°	2

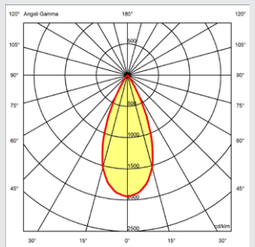
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	350	25.5	1166	4.0	292
					500	26.0	1576	13.0	121
					700	27.0	2064	18.9	109
mn3597i4	vita media · average life 70000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

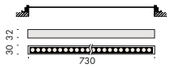


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ >65° < 1000cd/m²
Lmγ >45° < 6000cd/m²



mn scomparsa totale 30x730 a.i. h.32	240V 50/60Hz		IP40		
Vb6.650.853	nero55	on-off	2700K	44°	2
Vb6.650.859	argento hacca	on-off	2700K	44°	2
Vb6.650.865	biancoV	on-off	2700K	44°	2
Vb6.650.997	nero55	dali	2700K	44°	2
Vb6.650.1003	argento hacca	dali	2700K	44°	2
Vb6.650.1009	biancoV	dali	2700K	44°	2
Vb6.650.1141	nero55	casambi	2700K	44°	2
Vb6.650.1147	argento hacca	casambi	2700K	44°	2
Vb6.650.1153	biancoV	casambi	2700K	44°	2

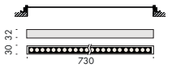
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	700	27.0	1896	18.9	100
mn2797i4	vita media · average life 70000 h L90 B10								

Vb6.650.854	nero55	on-off	3000K	44°	2
Vb6.650.860	argento hacca	on-off	3000K	44°	2
Vb6.650.866	biancoV	on-off	3000K	44°	2
Vb6.650.998	nero55	dali	3000K	44°	2
Vb6.650.1004	argento hacca	dali	3000K	44°	2
Vb6.650.1010	biancoV	dali	3000K	44°	2
Vb6.650.1142	nero55	casambi	3000K	44°	2
Vb6.650.1148	argento hacca	casambi	3000K	44°	2
Vb6.650.1154	biancoV	casambi	3000K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	27.0	2008	18.9	106
mn3097i4	vita media · average life 70000 h L90 B10								

Vb6.650.855	nero55	on-off	3500K	44°	2
Vb6.650.861	argento hacca	on-off	3500K	44°	2
Vb6.650.867	biancoV	on-off	3500K	44°	2
Vb6.650.999	nero55	dali	3500K	44°	2
Vb6.650.1005	argento hacca	dali	3500K	44°	2
Vb6.650.1011	biancoV	dali	3500K	44°	2
Vb6.650.1143	nero55	casambi	3500K	44°	2
Vb6.650.1149	argento hacca	casambi	3500K	44°	2
Vb6.650.1155	biancoV	casambi	3500K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	27.0	2064	18.9	109
mn3597i4	vita media · average life 70000 h L90 B10								



mn scomparsa totale 30x730 a.i. h.32	240V 50/60Hz		IP40		
Vb6.650.856	nero55	on-off	2700K	70°	2
Vb6.650.862	argento hacca	on-off	2700K	70°	2
Vb6.650.868	biancoV	on-off	2700K	70°	2
Vb6.650.1000	nero55	dali	2700K	70°	2
Vb6.650.1006	argento hacca	dali	2700K	70°	2
Vb6.650.1012	biancoV	dali	2700K	70°	2
Vb6.650.1144	nero55	casambi	2700K	70°	2
Vb6.650.1150	argento hacca	casambi	2700K	70°	2
Vb6.650.1156	biancoV	casambi	2700K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	700	27.0	1896	18.9	100
mn2797i4	vita media · average life 70000 h L90 B10								

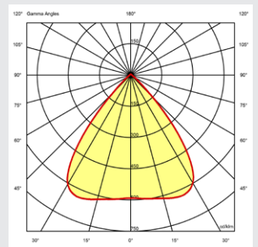
Vb6.650.857	nero55	on-off	3000K	70°	2
Vb6.650.863	argento hacca	on-off	3000K	70°	2
Vb6.650.869	biancoV	on-off	3000K	70°	2
Vb6.650.1001	nero55	dali	3000K	70°	2
Vb6.650.1007	argento hacca	dali	3000K	70°	2
Vb6.650.1013	biancoV	dali	3000K	70°	2
Vb6.650.1145	nero55	casambi	3000K	70°	2
Vb6.650.1151	argento hacca	casambi	3000K	70°	2
Vb6.650.1157	biancoV	casambi	3000K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	27.0	2008	18.9	106
mn3097i4	vita media · average life 70000 h L90 B10								

Vb6.650.858	nero55	on-off	3500K	70°	2
Vb6.650.864	argento hacca	on-off	3500K	70°	2
Vb6.650.870	biancoV	on-off	3500K	70°	2
Vb6.650.1002	nero55	dali	3500K	70°	2
Vb6.650.1008	argento hacca	dali	3500K	70°	2
Vb6.650.1014	biancoV	dali	3500K	70°	2
Vb6.650.1146	nero55	casambi	3500K	70°	2
Vb6.650.1152	argento hacca	casambi	3500K	70°	2
Vb6.650.1158	biancoV	casambi	3500K	70°	2

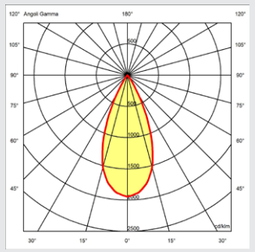
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	27.0	2064	18.9	109
mn3597i4	vita media · average life 70000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

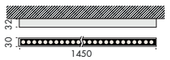


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ>65° < 1000cd/m²
Lmγ>45° < 6000cd/m²



mn soffitto 30x1450 h.32 IP40

Vb5.650.127	nero55	2700K	44°	2
Vb5.650.133	argento hacca	2700K	44°	2
Vb5.650.139	biancoV	2700K	44°	2

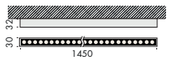
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	700	25.4	2141	17.8	120
					1050	26.0	3040	27.4	111
					1400	27.0	3789	37.8	100
mn2797i8	vita media · average life 70000 h L90 B10								

Vb5.650.128	nero55	3000K	44°	2
Vb5.650.134	argento hacca	3000K	44°	2
Vb5.650.140	biancoV	3000K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	25.4	2268	17.8	127
					1050	26.0	3220	27.4	118
					1400	27.0	4014	37.8	106
mn3097i8	vita media · average life 70000 h L90 B10								

Vb5.650.129	nero55	3500K	44°	2
Vb5.650.135	argento hacca	3500K	44°	2
Vb5.650.141	biancoV	3500K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	25.4	2331	17.8	131
					1050	26.0	3310	27.4	121
					1400	27.0	4126	37.8	109
mn3597i8	vita media · average life 70000 h L90 B10								



mn soffitto 30x1450 h.32 IP40

Vb5.650.130	nero55	2700K	70°	2
Vb5.650.136	argento hacca	2700K	70°	2
Vb5.650.142	biancoV	2700K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	700	25.4	2141	17.8	120
					1050	26.0	3040	27.4	111
					1400	27.0	3789	37.8	100
mn2797i8	vita media · average life 70000 h L90 B10								

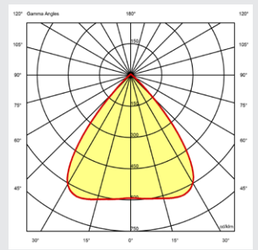
Vb5.650.131	nero55	3000K	70°	2
Vb5.650.137	argento hacca	3000K	70°	2
Vb5.650.143	biancoV	3000K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	25.4	2268	17.8	127
					1050	26.0	3220	27.4	118
					1400	27.0	4014	37.8	106
mn3097i8	vita media · average life 70000 h L90 B10								

Vb5.650.132	nero55	3500K	70°	2
Vb5.650.138	argento hacca	3500K	70°	2
Vb5.650.144	biancoV	3500K	70°	2

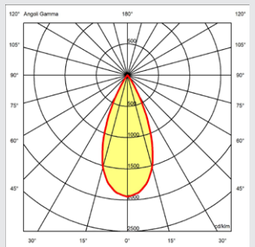
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	25.4	2331	17.8	131
					1050	26.0	3310	27.4	121
					1400	27.0	4126	37.8	109
mn3597i8	vita media · average life 70000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

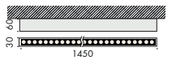


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ>65° < 1000cd/m²
Lmγ>45° < 6000cd/m²



mn soffitto 30x1450 a.i. h.60			240V 50/60Hz		IP40		
Vb5.650.271	nero55	on-off	2700K	44°	2		
Vb5.650.277	argento hacca	on-off	2700K	44°	2		
Vb5.650.283	biancoV	on-off	2700K	44°	2		
Vb5.650.415	nero55	dali	2700K	44°	2		
Vb5.650.421	argento hacca	dali	2700K	44°	2		
Vb5.650.427	biancoV	dali	2700K	44°	2		
Vb5.650.559	nero55	casambi	2700K	44°	2		
Vb5.650.565	argento hacca	casambi	2700K	44°	2		
Vb5.650.571	biancoV	casambi	2700K	44°	2		

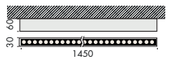
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	1050	26.0	3040	27.4	111
mn2797i8	vita media · average life 70000 h L90 B10								

Vb5.650.272	nero55	on-off	3000K	44°	2		
Vb5.650.278	argento hacca	on-off	3000K	44°	2		
Vb5.650.284	biancoV	on-off	3000K	44°	2		
Vb5.650.416	nero55	dali	3000K	44°	2		
Vb5.650.422	argento hacca	dali	3000K	44°	2		
Vb5.650.428	biancoV	dali	3000K	44°	2		
Vb5.650.560	nero55	casambi	3000K	44°	2		
Vb5.650.566	argento hacca	casambi	3000K	44°	2		
Vb5.650.572	biancoV	casambi	3000K	44°	2		

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	26.0	3220	27.4	118
mn3097i8	vita media · average life 70000 h L90 B10								

Vb5.650.273	nero55	on-off	3500K	44°	2		
Vb5.650.279	argento hacca	on-off	3500K	44°	2		
Vb5.650.285	biancoV	on-off	3500K	44°	2		
Vb5.650.417	nero55	dali	3500K	44°	2		
Vb5.650.423	argento hacca	dali	3500K	44°	2		
Vb5.650.429	biancoV	dali	3500K	44°	2		
Vb5.650.561	nero55	casambi	3500K	44°	2		
Vb5.650.567	argento hacca	casambi	3500K	44°	2		
Vb5.650.573	biancoV	casambi	3500K	44°	2		

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	26.0	3310	27.4	121
mn3597i8	vita media · average life 70000 h L90 B10								



mn soffitto 30x1450 a.i. h.60			240V 50/60Hz		IP40		
Vb5.650.274	nero55	on-off	2700K	70°	2		
Vb5.650.280	argento hacca	on-off	2700K	70°	2		
Vb5.650.286	biancoV	on-off	2700K	70°	2		
Vb5.650.418	nero55	dali	2700K	70°	2		
Vb5.650.424	argento hacca	dali	2700K	70°	2		
Vb5.650.430	biancoV	dali	2700K	70°	2		
Vb5.650.562	nero55	casambi	2700K	70°	2		
Vb5.650.568	argento hacca	casambi	2700K	70°	2		
Vb5.650.574	biancoV	casambi	2700K	70°	2		

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	1050	26.0	3040	27.4	111
mn2797i8	vita media · average life 70000 h L90 B10								

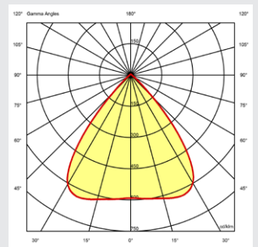
Vb5.650.275	nero55	on-off	3000K	70°	2		
Vb5.650.281	argento hacca	on-off	3000K	70°	2		
Vb5.650.287	biancoV	on-off	3000K	70°	2		
Vb5.650.419	nero55	dali	3000K	70°	2		
Vb5.650.425	argento hacca	dali	3000K	70°	2		
Vb5.650.431	biancoV	dali	3000K	70°	2		
Vb5.650.563	nero55	casambi	3000K	70°	2		
Vb5.650.569	argento hacca	casambi	3000K	70°	2		
Vb5.650.575	biancoV	casambi	3000K	70°	2		

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	26.0	3220	27.4	118
mn3097i8	vita media · average life 70000 h L90 B10								

Vb5.650.276	nero55	on-off	3500K	70°	2		
Vb5.650.282	argento hacca	on-off	3500K	70°	2		
Vb5.650.288	biancoV	on-off	3500K	70°	2		
Vb5.650.420	nero55	dali	3500K	70°	2		
Vb5.650.426	argento hacca	dali	3500K	70°	2		
Vb5.650.432	biancoV	dali	3500K	70°	2		
Vb5.650.564	nero55	casambi	3500K	70°	2		
Vb5.650.570	argento hacca	casambi	3500K	70°	2		
Vb5.650.576	biancoV	casambi	3500K	70°	2		

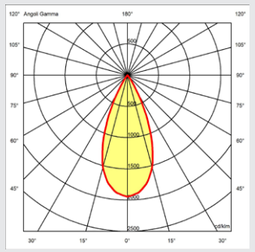
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	26.0	3310	27.4	121
mn3597i8	vita media · average life 70000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

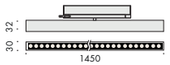


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ >65° < 1000cd/m²
Lmγ >45° < 6000cd/m²



mn adattatore VbB 30x1450 h.32		240V 50/60Hz		IP40			
Vb7.650.091	nero55 · nero	on-off	2700K	44°	2		
Vb7.650.097	argento hacca · nero	on-off	2700K	44°	2		
Vb7.650.103	biancoV · bianco	on-off	2700K	44°	2		
Vb7.650.199	nero55 · nero	dali	2700K	44°	2		
Vb7.650.205	argento hacca · nero	dali	2700K	44°	2		
Vb7.650.211	biancoV · bianco	dali	2700K	44°	2		
Vb7.650.307	nero55 · nero	casambi	2700K	44°	2		
Vb7.650.313	argento hacca · nero	casambi	2700K	44°	2		
Vb7.650.319	biancoV · bianco	casambi	2700K	44°	2		

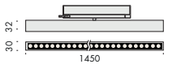
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	1050	26.0	3040	27.4	111
mn2797i8	vita media · average life 70000 h L90 B10								

Vb7.650.092	nero55 · nero	on-off	3000K	44°	2				
Vb7.650.098	argento hacca · nero	on-off	3000K	44°	2				
Vb7.650.104	biancoV · bianco	on-off	3000K	44°	2				
Vb7.650.200	nero55 · nero	dali	3000K	44°	2				
Vb7.650.206	argento hacca · nero	dali	3000K	44°	2				
Vb7.650.212	biancoV · bianco	dali	3000K	44°	2				
Vb7.650.308	nero55 · nero	casambi	3000K	44°	2				
Vb7.650.314	argento hacca · nero	casambi	3000K	44°	2				
Vb7.650.320	biancoV · bianco	casambi	3000K	44°	2				

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	26.0	3220	27.4	118
mn3097i8	vita media · average life 70000 h L90 B10								

Vb7.650.093	nero55 · nero	on-off	3500K	44°	2				
Vb7.650.099	argento hacca · nero	on-off	3500K	44°	2				
Vb7.650.105	biancoV · bianco	on-off	3500K	44°	2				
Vb7.650.201	nero55 · nero	dali	3500K	44°	2				
Vb7.650.207	argento hacca · nero	dali	3500K	44°	2				
Vb7.650.213	biancoV · bianco	dali	3500K	44°	2				
Vb7.650.309	nero55 · nero	casambi	3500K	44°	2				
Vb7.650.315	argento hacca · nero	casambi	3500K	44°	2				
Vb7.650.321	biancoV · bianco	casambi	3500K	44°	2				

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	26.0	3310	27.4	121
mn3597i8	vita media · average life 70000 h L90 B10								



mn adattatore VbB 30x1450 h.32		240V 50/60Hz		IP40			
Vb7.650.094	nero55 · nero	on-off	2700K	70°	2		
Vb7.650.100	argento hacca · nero	on-off	2700K	70°	2		
Vb7.650.106	biancoV · bianco	on-off	2700K	70°	2		
Vb7.650.202	nero55 · nero	dali	2700K	70°	2		
Vb7.650.208	argento hacca · nero	dali	2700K	70°	2		
Vb7.650.214	biancoV · bianco	dali	2700K	70°	2		
Vb7.650.310	nero55 · nero	casambi	2700K	70°	2		
Vb7.650.316	argento hacca · nero	casambi	2700K	70°	2		
Vb7.650.322	biancoV · bianco	casambi	2700K	70°	2		

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	1050	26.0	3040	27.4	111
mn2797i8	vita media · average life 70000 h L90 B10								

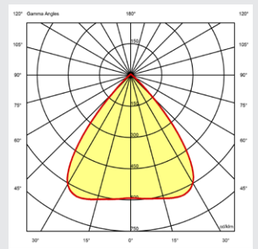
Vb7.650.095	nero55 · nero	on-off	3000K	70°	2				
Vb7.650.101	argento hacca · nero	on-off	3000K	70°	2				
Vb7.650.107	biancoV · bianco	on-off	3000K	70°	2				
Vb7.650.203	nero55 · nero	dali	3000K	70°	2				
Vb7.650.209	argento hacca · nero	dali	3000K	70°	2				
Vb7.650.215	biancoV · bianco	dali	3000K	70°	2				
Vb7.650.311	nero55 · nero	casambi	3000K	70°	2				
Vb7.650.317	argento hacca · nero	casambi	3000K	70°	2				
Vb7.650.323	biancoV · bianco	casambi	3000K	70°	2				

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	26.0	3220	27.4	118
mn3097i8	vita media · average life 70000 h L90 B10								

Vb7.650.096	nero55 · nero	on-off	3500K	70°	2				
Vb7.650.102	argento hacca · nero	on-off	3500K	70°	2				
Vb7.650.108	biancoV · bianco	on-off	3500K	70°	2				
Vb7.650.204	nero55 · nero	dali	3500K	70°	2				
Vb7.650.210	argento hacca · nero	dali	3500K	70°	2				
Vb7.650.216	biancoV · bianco	dali	3500K	70°	2				
Vb7.650.312	nero55 · nero	casambi	3500K	70°	2				
Vb7.650.318	argento hacca · nero	casambi	3500K	70°	2				
Vb7.650.324	biancoV · bianco	casambi	3500K	70°	2				

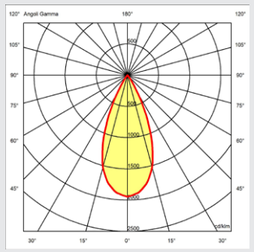
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	26.0	3310	27.4	121
mn3597i8	vita media · average life 70000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

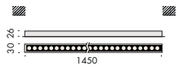


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ>65° < 1000cd/m²
Lmγ>45° < 6000cd/m²



mn incasso 30x1450 h.26 IP40

Vb6.650.109	nero55	2700K	44°	2
Vb6.650.115	argento hacca	2700K	44°	2
Vb6.650.121	biancoV	2700K	44°	2

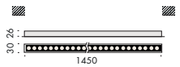
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	700	25.4	2141	17.8	120
					1050	26.0	3040	27.4	111
					1400	27.0	3789	37.8	100
mn2797i8	vita media · average life 70000 h L90 B10								

Vb6.650.110	nero55	3000K	44°	2
Vb6.650.116	argento hacca	3000K	44°	2
Vb6.650.122	biancoV	3000K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	25.4	2268	17.8	127
					1050	26.0	3220	27.4	118
					1400	27.0	4014	37.8	106
mn3097i8	vita media · average life 70000 h L90 B10								

Vb6.650.111	nero55	3500K	44°	2
Vb6.650.117	argento hacca	3500K	44°	2
Vb6.650.123	biancoV	3500K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	25.4	2331	17.8	131
					1050	26.0	3310	27.4	121
					1400	27.0	4126	37.8	109
mn3597i8	vita media · average life 70000 h L90 B10								



mn incasso 30x1450 h.26 IP40

Vb6.650.112	nero55	2700K	70°	2
Vb6.650.118	argento hacca	2700K	70°	2
Vb6.650.124	biancoV	2700K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	700	25.4	2141	17.8	120
					1050	26.0	3040	27.4	111
					1400	27.0	3789	37.8	100
mn2797i8	vita media · average life 70000 h L90 B10								

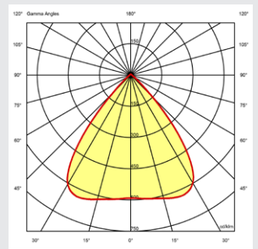
Vb6.650.113	nero55	3000K	70°	2
Vb6.650.119	argento hacca	3000K	70°	2
Vb6.650.125	biancoV	3000K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	25.4	2268	17.8	127
					1050	26.0	3220	27.4	118
					1400	27.0	4014	37.8	106
mn3097i8	vita media · average life 70000 h L90 B10								

Vb6.650.114	nero55	3500K	70°	2
Vb6.650.120	argento hacca	3500K	70°	2
Vb6.650.126	biancoV	3500K	70°	2

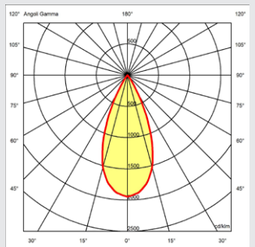
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	25.4	2331	17.8	131
					1050	26.0	3310	27.4	121
					1400	27.0	4126	37.8	109
mn3597i8	vita media · average life 70000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

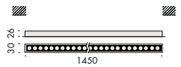


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ>65° < 1000cd/m²
Lmγ>45° < 6000cd/m²



mn incasso 30X1450 a.i. h.26		240V 50/60Hz		IP40			
Vb6.650.235	nero55	on-off	2700K	44°	2		
Vb6.650.241	argento hacca	on-off	2700K	44°	2		
Vb6.650.247	biancoV	on-off	2700K	44°	2		
Vb6.650.361	nero55	dali	2700K	44°	2		
Vb6.650.367	argento hacca	dali	2700K	44°	2		
Vb6.650.373	biancoV	dali	2700K	44°	2		
Vb6.650.487	nero55	casambi	2700K	44°	2		
Vb6.650.493	argento hacca	casambi	2700K	44°	2		
Vb6.650.499	biancoV	casambi	2700K	44°	2		

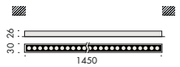
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	1050	26.0	3040	27.4	111
mn2797i8	vita media · average life 70000 h L90 B10								

Vb6.650.236	nero55	on-off	3000K	44°	2		
Vb6.650.242	argento hacca	on-off	3000K	44°	2		
Vb6.650.248	biancoV	on-off	3000K	44°	2		
Vb6.650.362	nero55	dali	3000K	44°	2		
Vb6.650.368	argento hacca	dali	3000K	44°	2		
Vb6.650.374	biancoV	dali	3000K	44°	2		
Vb6.650.488	nero55	casambi	3000K	44°	2		
Vb6.650.494	argento hacca	casambi	3000K	44°	2		
Vb6.650.500	biancoV	casambi	3000K	44°	2		

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	26.0	3220	27.4	118
mn3097i8	vita media · average life 70000 h L90 B10								

Vb6.650.237	nero55	on-off	3500K	44°	2		
Vb6.650.243	argento hacca	on-off	3500K	44°	2		
Vb6.650.249	biancoV	on-off	3500K	44°	2		
Vb6.650.363	nero55	dali	3500K	44°	2		
Vb6.650.369	argento hacca	dali	3500K	44°	2		
Vb6.650.375	biancoV	dali	3500K	44°	2		
Vb6.650.489	nero55	casambi	3500K	44°	2		
Vb6.650.495	argento hacca	casambi	3500K	44°	2		
Vb6.650.501	biancoV	casambi	3500K	44°	2		

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	26.0	3310	27.4	121
mn3597i8	vita media · average life 70000 h L90 B10								



mn incasso 30X1450 a.i. h.26		240V 50/60Hz		IP40			
Vb6.650.238	nero55	on-off	2700K	70°	2		
Vb6.650.244	argento hacca	on-off	2700K	70°	2		
Vb6.650.250	biancoV	on-off	2700K	70°	2		
Vb6.650.364	nero55	dali	2700K	70°	2		
Vb6.650.370	argento hacca	dali	2700K	70°	2		
Vb6.650.376	biancoV	dali	2700K	70°	2		
Vb6.650.490	nero55	casambi	2700K	70°	2		
Vb6.650.496	argento hacca	casambi	2700K	70°	2		
Vb6.650.502	biancoV	casambi	2700K	70°	2		

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	1050	26.0	3040	27.4	111
mn2797i8	vita media · average life 70000 h L90 B10								

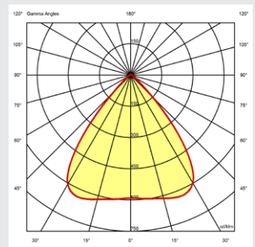
Vb6.650.239	nero55	on-off	3000K	70°	2		
Vb6.650.245	argento hacca	on-off	3000K	70°	2		
Vb6.650.251	biancoV	on-off	3000K	70°	2		
Vb6.650.365	nero55	dali	3000K	70°	2		
Vb6.650.371	argento hacca	dali	3000K	70°	2		
Vb6.650.377	biancoV	dali	3000K	70°	2		
Vb6.650.491	nero55	casambi	3000K	70°	2		
Vb6.650.497	argento hacca	casambi	3000K	70°	2		
Vb6.650.503	biancoV	casambi	3000K	70°	2		

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	26.0	3220	27.4	118
mn3097i8	vita media · average life 70000 h L90 B10								

Vb6.650.240	nero55	on-off	3500K	70°	2		
Vb6.650.246	argento hacca	on-off	3500K	70°	2		
Vb6.650.252	biancoV	on-off	3500K	70°	2		
Vb6.650.366	nero55	dali	3500K	70°	2		
Vb6.650.372	argento hacca	dali	3500K	70°	2		
Vb6.650.378	biancoV	dali	3500K	70°	2		
Vb6.650.492	nero55	casambi	3500K	70°	2		
Vb6.650.498	argento hacca	casambi	3500K	70°	2		
Vb6.650.504	biancoV	casambi	3500K	70°	2		

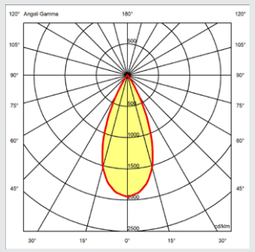
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	26.0	3310	27.4	121
mn3597i8	vita media · average life 70000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

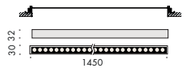


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ>65° < 1000cd/m²
Lmγ>45° < 6000cd/m²



mn scomparsa totale 30x1450 h.32 — IP40

Vb6.650.727	nero55	2700K	44°	2
Vb6.650.733	argento hacca	2700K	44°	2
Vb6.650.739	biancoV	2700K	44°	2

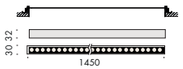
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	700	25.4	2141	17.8	120
					1050	26.0	3040	27.4	111
					1400	27.0	3789	37.8	100
mn2797i8	vita media · average life 70000 h L90 B10								

Vb6.650.728	nero55	3000K	44°	2
Vb6.650.734	argento hacca	3000K	44°	2
Vb6.650.740	biancoV	3000K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	25.4	2268	17.8	127
					1050	26.0	3220	27.4	118
					1400	27.0	4014	37.8	106
mn3097i8	vita media · average life 70000 h L90 B10								

Vb6.650.729	nero55	3500K	44°	2
Vb6.650.735	argento hacca	3500K	44°	2
Vb6.650.741	biancoV	3500K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	25.4	2331	17.8	131
					1050	26.0	3310	27.4	121
					1400	27.0	4126	37.8	109
mn3597i8	vita media · average life 70000 h L90 B10								



mn scomparsa totale 30x1450 h.32 — IP40

Vb6.650.730	nero55	2700K	70°	2
Vb6.650.736	argento hacca	2700K	70°	2
Vb6.650.742	biancoV	2700K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	700	25.4	2141	17.8	120
					1050	26.0	3040	27.4	111
					1400	27.0	3789	37.8	100
mn2797i8	vita media · average life 70000 h L90 B10								

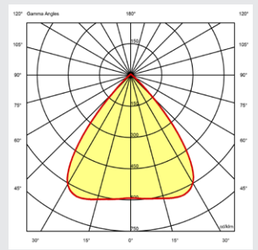
Vb6.650.731	nero55	3000K	70°	2
Vb6.650.737	argento hacca	3000K	70°	2
Vb6.650.743	biancoV	3000K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	25.4	2268	17.8	127
					1050	26.0	3220	27.4	118
					1400	27.0	4014	37.8	106
mn3097i8	vita media · average life 70000 h L90 B10								

Vb6.650.732	nero55	3500K	70°	2
Vb6.650.738	argento hacca	3500K	70°	2
Vb6.650.744	biancoV	3500K	70°	2

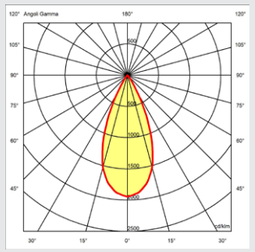
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	700	25.4	2331	17.8	131
					1050	26.0	3310	27.4	121
					1400	27.0	4126	37.8	109
mn3597i8	vita media · average life 70000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°

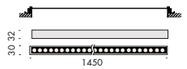


UGR<19

gradi di apertura fascio luminoso 44°
beam's angle degrees 44°



UGR<10
Lmγ >65° < 1000cd/m²
Lmγ >45° < 6000cd/m²



mn scomparsa totale 30x1450 a.i. h.32 | **240V 50/60Hz** | **IP40**

Vb6.650.871	nero55	on-off	2700K	44°	2
Vb6.650.877	argento hacca	on-off	2700K	44°	2
Vb6.650.883	biancoV	on-off	2700K	44°	2
Vb6.650.1015	nero55	dali	2700K	44°	2
Vb6.650.1021	argento hacca	dali	2700K	44°	2
Vb6.650.1027	biancoV	dali	2700K	44°	2
Vb6.650.1159	nero55	casambi	2700K	44°	2
Vb6.650.1165	argento hacca	casambi	2700K	44°	2
Vb6.650.1171	biancoV	casambi	2700K	44°	2

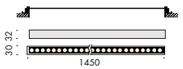
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	1050	26.0	3040	27.4	111
mn2797i8	vita media · average life 70000 h L90 B10								

Vb6.650.872	nero55	on-off	3000K	44°	2
Vb6.650.878	argento hacca	on-off	3000K	44°	2
Vb6.650.884	biancoV	on-off	3000K	44°	2
Vb6.650.1016	nero55	dali	3000K	44°	2
Vb6.650.1022	argento hacca	dali	3000K	44°	2
Vb6.650.1028	biancoV	dali	3000K	44°	2
Vb6.650.1160	nero55	casambi	3000K	44°	2
Vb6.650.1166	argento hacca	casambi	3000K	44°	2
Vb6.650.1172	biancoV	casambi	3000K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	26.0	3220	27.4	118
mn3097i8	vita media · average life 70000 h L90 B10								

Vb6.650.873	nero55	on-off	3500K	44°	2
Vb6.650.879	argento hacca	on-off	3500K	44°	2
Vb6.650.885	biancoV	on-off	3500K	44°	2
Vb6.650.1017	nero55	dali	3500K	44°	2
Vb6.650.1023	argento hacca	dali	3500K	44°	2
Vb6.650.1029	biancoV	dali	3500K	44°	2
Vb6.650.1161	nero55	casambi	3500K	44°	2
Vb6.650.1167	argento hacca	casambi	3500K	44°	2
Vb6.650.1173	biancoV	casambi	3500K	44°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	26.0	3310	27.4	121
mn3597i8	vita media · average life 70000 h L90 B10								



mn scomparsa totale 30x1450 a.i. h.32 | **240V 50/60Hz** | **IP40**

Vb6.650.874	nero55	on-off	2700K	70°	2
Vb6.650.880	argento hacca	on-off	2700K	70°	2
Vb6.650.886	biancoV	on-off	2700K	70°	2
Vb6.650.1018	nero55	dali	2700K	70°	2
Vb6.650.1024	argento hacca	dali	2700K	70°	2
Vb6.650.1030	biancoV	dali	2700K	70°	2
Vb6.650.1162	nero55	casambi	2700K	70°	2
Vb6.650.1168	argento hacca	casambi	2700K	70°	2
Vb6.650..1174	biancoV	casambi	2700K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 93	Rg 102	step 2	1050	26.0	3040	27.4	111
mn2797i8	vita media · average life 70000 h L90 B10								

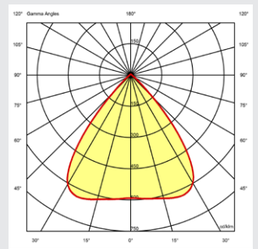
Vb6.650.875	nero55	on-off	3000K	70°	2
Vb6.650.881	argento hacca	on-off	3000K	70°	2
Vb6.650.887	biancoV	on-off	3000K	70°	2
Vb6.650.1019	nero55	dali	3000K	70°	2
Vb6.650.1025	argento hacca	dali	3000K	70°	2
Vb6.650.1031	biancoV	dali	3000K	70°	2
Vb6.650.1163	nero55	casambi	3000K	70°	2
Vb6.650.1169	argento hacca	casambi	3000K	70°	2
Vb6.650.1175	biancoV	casambi	3000K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	26.0	3220	27.4	118
mn3097i8	vita media · average life 70000 h L90 B10								

Vb6.650.876	nero55	on-off	3500K	70°	2
Vb6.650.882	argento hacca	on-off	3500K	70°	2
Vb6.650.888	biancoV	on-off	3500K	70°	2
Vb6.650.1020	nero55	dali	3500K	70°	2
Vb6.650.1026	argento hacca	dali	3500K	70°	2
Vb6.650.1032	biancoV	dali	3500K	70°	2
Vb6.650.1164	nero55	casambi	3500K	70°	2
Vb6.650.1170	argento hacca	casambi	3500K	70°	2
Vb6.650.1176	biancoV	casambi	3500K	70°	2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
97	90	Rf 95	Rg 102	step 2	1050	26.0	3310	27.4	121
mn3597i8	vita media · average life 70000 h L90 B10								

gradi di apertura fascio luminoso 70°
beam's angle degrees 70°



UGR<19