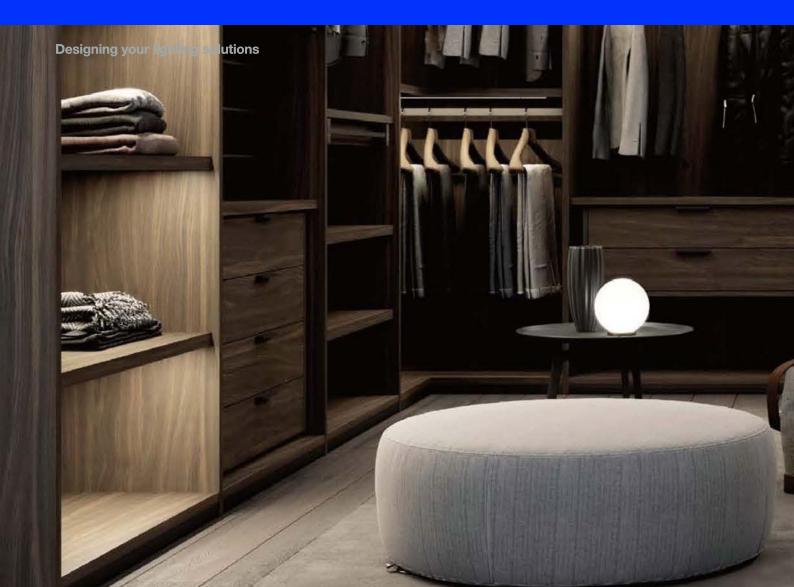


LED Furniture & cabinets & displays



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LED LIGHT SOURCE



LED Strip Light Source



SENSOR SWITCH



Wired Intelligent Switch

CONNECTING ACCESSORY



DC Power Wiring Systen

WIRING ACCESSORY



Wiring Kit

WIDE VARIETY OF INSTALLATION AND LIGHTING EMITTING METHODS

Recessed Mounting





Surface Mounting











Embed To The Front Of Shelf





Embed To The Rear Of Shelf









Clip To The Class Shelf

Lighting Mode































ERP AND ECODESIGN FOR EU



Regulation 2019/2020 & 2019/2015

Regulation (EU) No. 2019/2020 on Ecodesign outlines the required energy performance and environment levels

Regulation (EU) No. 2019/2015 on Energy labelling Labels outlining the efficiency band for lighting products

New ERP compliant products

The latest stage of the Energy related Products (ErP) directive that covers lighting products came into effect on the 30th September 2021

"Customer support for products compliant with the new EU directive"

ENERGY EFFICIENCY CLASSES AND CALCULATION METHOD

The energy efficiency class of light sources shall be determined as set out in Table 1, on the basis of the total mains efficacy ηTM , which is calculated by dividing the declared useful luminous flux Φ use (expressed in lm) by the declared on-mode power consumption Pon(expressed in W) and multiplying by the applicable factor FTM of Table 2, as follows: $\eta TM = (\Phi use / Pon) \times FTM$ (lm/W).

Table 1 - Energy efficiency classes of light sources

Energy efficiency class	Total mains efficacy ηTM (lm / W)	
A	210 ≤η _{tm}	
В	185 ≤η _{tm} <210	
С	160 ≤η _{tm} <185	
D	135 ≤η _{tm} <160	
E	110 ≤n _{tm} <135	
F	85 ≤η _{tm} <110	
G	η _{tm} <85	

Table 2 - Factors FTM by light source type

Light source type	Factor F _{TM}	
Non-directional (NDLS) operating on mains (MLS)	1.000	
Non-directional (NDLS) not operating on mains (NMLS)	0.926	
Directional (DLS) operating on mains (MLS)	1.176	
Directional (DLS) not operating on mains (NMLS)	1.089	

ECODESIGN REQUIREMENTS

For the purposes of compliance and verification of compliance with the requirements of this Regulation, measurements and calculations shall be made using harmonised standards the reference numbers of which have been published for this purpose in the Official Journal of the European Union, or other reliable, accurate and reproducible methods, which take into account the generally recognised state-of-the-art.

1. Energy efficiency requirements:

- a. From 1 September 2021, the declared power consumption of a light source Pon shall not exceed the maximum allowed power Ponmax (in W), defined as a function of the declared useful luminous flux Φ use (in lm) and the declared colour rendering index CRI (-) as follows: Ponmax = C x (L + Φ use / (F x η)) · R; where:
- The values for threshold efficacy (η in lm/W) and end loss factor (L in W) are specified in Table 1, depending on the light source type. They are constants used for computations and do not reflect true parameters of light sources. The threshold efficacy is not the minimum required efficacy; the latter can be computed by dividing the useful luminous flux by the computed maximum allowed power.
- · Basic values for correction factor (C) depending on light source type, and additions to C for special light source features are specified in Table 2.
- Efficacy factor (F) is:
- 1,00 for non-directional light sources (NDLS, using total flux)
- 0.85 for directional light sources (DLS, using flux in a cone)
- CRI factor (R) is:
- 0.65 for CRI ≤25;

Table 1 - Thres hold efficacy (η) and end loss factor (L)

Light source description	η [lm / W]	l [W]
LFL T5-HE	98.8	1.9
LFL T5-HO, 4000≪Φ≪5000 lm	83.0	1.9
LFL T5-HO, other lm output	79.0	1.9
FL T5 circular	79.0	1.9
FL T8 (including FL T8 U-shaped)	89.7	4.5
From 1 September 2023, for FL T8 of 2-, 4-and 5-foot	120.0	1.5
Magnetic induction light source, any length/flux	70.2	2.3
FL T9 circular	71.5	6.2
HPS single-ended	88.0	50.0
HPS double-ended	78.0	47.7
MH ≤ 405 W single-ended	84.5	7.7
MH > 405 W single-ended	79.3	12.3
MH ceramic double-ended	84.5	7.7
MH quartz double-ended	79.3	12.3
Organic light-emitting diode (OLED)	65.0	1.5
Until 1 September 2023: HL G9, G4 and GY6.35	19.5	7.7
HL R7s ≤ 2700 lm	26.0	13.0
Other light sources in scope not mentioned above	120.0	1.5*

^{*}For connected light sources (GLS) a factor L=2.0 shall be applied

ECODESIGN REQUIREMENTS

Table 2 - Correction factor C depending on light source characteristics

Light source type	Basic C value	Special light source feature	Bonus on C
Non-directional (NDLS) not operating on mains (NMLS)	1.0	FL or HID with CCT >5000 K	+0.10
Non-directional (NDLS) operating on mains (MLS)	1.08	FL with CRI > 90	+0.10
Directional (DLS) not operating on mains (NMLS)	1.15	HID with second envelope	+0.10
Directional (DLS) operating on mains (MLS)	1.23	MH NDLS >405 W with non-clear envelope	+0.10
		DLS with anti-glare shield	+0.20
		Colour-tuneable light source (CTLS)	+0.10
		High luminance light sources (HLLS)	+0.0058 x luminance- HLLS - 0.0167

Where applicable, bonuses on correction factor C are cumulative.

The bonus for HLLS shall not be combined with the basic C-value for DLS (basic C-value for NDLS shall be used for HLLS).

Light sources that allow the end-user to adapt the spectrum and/or the beam angle of the emitted light, thus changing the values for useful luminous flux, colour rendering index (CRI) and/or correlated colour temperature (CCT), and/or changing the directional/non-directional status of the light source, shall be evaluated using the reference control settings.

The standby power Psb of a light source shall not exceed 0.5 W.

The networked standby power Pnet of a connected light source shall not exceed 0.5 W.

The allowable values for Psb and Pnet shall not be added together.

Table 3 - Minimum energy efficiency for separate control gear at full-load

Declared output power of the control gear (Pcg) or declared power of the light source (Pls) in W, as applicable	Minimum energy efficiency
Control gear for HL light sources	
All wattages Pcg	0.91
Control gear for FL light sources	
Pis ≤ 5	0.71
5 < Pls ≤ 100	$P_{ls}/(2 \times \sqrt{(P_{ls}/36)+38/36 \times P_{ls}+1)}$
100 < Pls	0.91
Control gear for HID light sources	
$P_{ls} \leqslant 30$	0.78
30 < Pls ≤ 75	0.85
75 < Pls ≤ 105	0.87
105 < Pls ≤ 405	0.90
405 < Pls	0.92
Control gear for LED or OLED light sources	
all wattages P _{cg}	$P_{cg}^{0.81}$ / (1.09 x $P_{cg}^{0.81}$ + 2.10)

Multi-wattage separate control gears shall comply with the requirements in Table 3 according to the maximum declared power on which they can operate. The no-load power Pno of a separate control gear shall not exceed 0.5 W. This applies only to separate control gear for which the manufacturer or importer has declared in the technical documentation that it has been designed for noload mode.

The standby power P_{sb} of a separate control gear shall not exceed 0.5 W.

The networked standby power Pnet of a connected separate control gear shall not exceed 0.5 W. The allowable values for Psb and Pnet shall not be added together.

ECODESIGN REQUIREMENTS

2. Functional requirements

From 1 September 2021, the functional requirements specified in Table 4 shall apply for light sources:

Table 4 - Functional requirements for light sources

Colour rendering	CRI \geq 80 (except for HID with $\Phi_{use} > 4$ klm and for light sources intended for use in outdoor applications, industrial applications or other applications where lighting standards allow a CRI<80, when a clear indication to this effect is shown on the light source packaging and in all relevant printed and electronic documentation)
Displacement factor (DF, cos Ф1) at power input Pon for LED and OLED MLS	No limit at $P_{on} \le 5$ W, DF ≥ 0.5 at 5 W < $P_{on} \le 10$ W, DF ≥ 0.7 at 10 W < $P_{on} \le 25$ W DF ≥ 0.9 at 25 W < P_{on}
Lumen maintenance factor (for LED and OLED)	The lumen maintenance factor XLMF% after endurance testing according to Annex V shall be at least XLMF,MIN % calculated as follows:
Survival factor (for LED and OLED)	Light sources should be operational as specified in row "Survival factor (for LED and OLED)" of Annex IV, Table 6, following the endurance testing given in Annex V.
Colour consistency for LED and OLED light sources	Variation of chromaticity coordinates within a six-step MacAdam ellipse or less.
Flicker for LED and OLED MLS	$P_{st}^{LM}\leqslant~1.0$ at full-load
Stroboscopic effect for LED and OLED MLS	SVM \leq 0.4 at full-load (except for HID with Φ_{use} > 4 klm and for light sources intended for use in outdoor applications, industrial applications or other applications where lighting standards allow a CRI<80)

QUALITY OF LIGHT

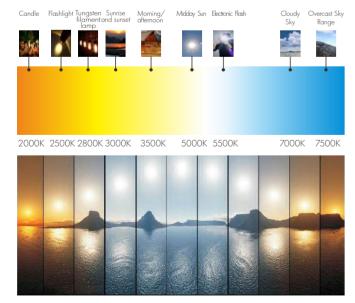
Without light, it would be impossible to view the world around us. Light illuminates objects for us to see and the spectrum emitted by a light source provides the colour in these objects. Variants of color offers advantages for different lighting applications. The lighting industry uses several tools-Kelvin, CCT, CRI, R-values and TM-30-to describe colour characteristics and light quality. With the development of LED technology the quality of electric light has been changed forever. LED sources illuminate objects for us to see and now feel the full range of colours within these objects. New lighting technology takes advantage of a wide variety of colours to meet your and your customers application needs.

THE CORRELATED COLOR TEMPERATURE SCALE

The Kelvin based CCT (Correlated Colour Temperature), is a scale used in lighting to measure the colour temperature of a luminaire. It puts specifics to the description of the appearance of white light as "warm", "neutral" or "cool" (CCT chart, below).

The colour chosen for an application may vary based on the use of the space and the material being illuminated. For example, "warmer" light is very popular in residential applications while "cool" light is more prevalent in commercial and industrial spaces. We offer a wide variety of options to meet your needs for any lighting application.

CORRELATED COLOUR TEMPERATURE(CCT) LIGHT RANGE COMPARISON CHART



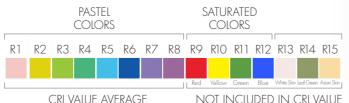
General Lighting offers a wide range of products and solution to illuminate your space.

SCALE DESCRIPTION A measurement of fidelity comparable to CIE Fidelity Index (R1) 0-100 CRI (Ra) but averages the values of 99 colour samples instead of 8. A higher value typically provides a more accurate rendition of colour in comparison to a natural light source. Gamut (Rg) measures the average hue and Gamut Index (Ra) 60-140 saturation (chroma) shift of a light source using 99 colour samples. A value of 60-99 indicates aver-age desaturation. A value of 101-160 indicates average increased saturation. The Color Vector Graphic shows the relative saturation of multiple hues. It's important as it quickly conveys what types of colors are more or less saturated. Fidelity Skin (Rf, skin) is an average of CES15 and CES18 skin tones. A higher value typically pro-vides natural looking 'skin tones'. Fidelity Red (R9) derives from a single, saturated, red color sample. A higher value is important Fidelity Red (R9) 0-100 for illuminating red surfaces, wood grains and skin tones. CRI (Ra) is a legacy measurement of Fidelity using 8 colour samples and with an undefined lower scale. A higher value typically provides CIF CRI (Ra) <0-100 more accurate average rendition of colour. Comparably, TM-30 fidelity (Rf) is a much more im-proved metric for accurate colour rendition than CRI (Ra).

COLOUR RENDERING INDEX

A Colour Rendering Index (CRI) is the most useful measure of a colour characteristic of a light source, which is the measure of the ability of a light source to reveal the colours of various objects faithfully in comparison with an ideal or natural light source like the sun (CRI 100) or an incandescent bulb. To avoid under or over saturated objects and mute colors, CRI must be in a range of 80-98 CRI, specially in retail, food and art environments, making surfaces appear colourful, vibrant and natural.

CRI is calculated using eight reference samples in CIE 1995 colour space, called R-values, the highest values are very important for illuminating skin tones, retail object and food. Our LED are made to deliver highest R-values.



A BRIEF LOOK INTO TM-30:

IES TM-30-15 is a new color rendering system that remedies flaws/limitations of CRI, providing complementary and more detailed information that benefits both specifiers and manufacturers. The much wider range of colors is a more accurate reflection of the real world – allowing you to show detailed colors for skin tones, wood grains, decorative art, furnishings, merchandising and more. While CRI isn't going anywhere soon, it's important to familiar -ize yourself with the new TM-30 metrics as they will become more common in years to come.

TM-30 COLOR CHART

TM-30 measures against 99 color samples, all used to provide Fidelity (Rf), Gamut (Rg) and Color Vector Graphics.

cts 1	CES 2	CES 3	CES 4	CES 5	CES 6	CES 7	CES B
	Type C	Type A	Type A	Type D	Type C	Type E	Type D
CES 9	CES 10	CES 11	CES 12	CES 13	CES 14	CES 15	CES 16
Type F	Type G	Type C	Type A	Type F	Type E	Type B	Type C
CES 17	CES 18	CES 19	CES 20	CE5 21	CES 22	EE533	CE5:24
Type C	Type B	Type E	Type F	Type 0	Type D	Tepes in	Type E
CES 25	CES 20	CSS 27	CES 28	CES 20	CES 30	CIS 31	CES 32
Туре А	Туре С	Type A	Type G	Type C	Type A	Type D	Type C
613-11	CES 34	CES 35	CES 30	CES 37	05538	CES 39	CES 40
	Type G	Type G	Турк А	Type A	Type A	Type F	Type F
005-41	CES 42	CES 43	CES 44	CES 45	CES 46	CES-47	CES 48
	Type F	Type C	Type F	Type G	Type E	Type C	Type D
CES 49	CES 50	CES 51	CES 52	CES 53	CES 54	CES 55	CES 56
Type D	Type F	Type F	Type F	Type E	Type F	Type 6	Type G
CES 57	CES 58	CES 59	CES 60	CES 61	CES 62	CES 63	CES 64
Туре С	Type D	Type 8	Type G	Type F	Type C	Type F	Type E
CES 65	CES 66	CES 67	CES 68	CES 69	CES 70	CES 71	GES 72
Type F	Type E	Type E	Type F	Type F	Type F	Type F	Type F
CES 73	CES 74	CES 75	CES 76	CES 77	CES 78	CES 79	CES 80
Туре Е	Type C	Type F	Type F	Type A	Type F	Type C	Type G
CES B1	000.02	CES 83	CES 84	CES 85	CES 86	CES 87	CES BB
Туре А	Type C	Туре С	Type F	Type A	Туре С	Type F	Type F
CES 89	CES 90	CES 91	CES 92	CES 93	CES 94	CES 95	CES 96
Type A	Type E	Type A	Type A	Type D	Туре С	Type A	Type A
CES 97	CES 98	CES 99	-				
Type F	Type A	Type E					

CRI VS TM-30 RENDERING TOOLS

CIE 13.3-1995(CRI/Ra)

- Last major update was in 1976
- 8 main color samples (Ra), 6 special samples
- Measures Fidelity (Ra) only

IES TM-30-15

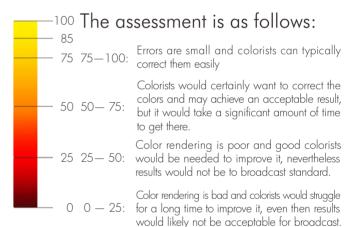
- Released in 2015
- 99 color samples
- Measures Fidelity (Rf), Gamut (Rg) and includes Color Vector

A combination of TM-30's Fidelity (Rf), Gamut (Rg) and Colour Vector Graphic will help further clarify beyond the typical CRI metric how a test source compares to a reference source.

Television Lighting Consistency Index (TLCI)



TLCI: The Television Lighting Consistency Index averages 24 colors from the MacBeth chart (which is now owned by X-Rite and is called the X-Rite ColorChecker). The maximum value is 100, with 100 being best. (Note: colors for TLCI are named below.)

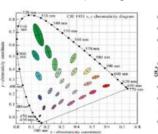


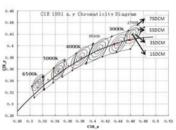
PERFECT COLOR CONSISTENCY

Perfect color consistency with SDCM (Standard deviation of color matching) in only 3-step and one bin as standard supply.









REFERENCE CCT VS. APPLICATION

CCT	Amber 1600K/Ca	ndle Light 1800K
▼		
Warm White	Neutral White	Cold White





CCT	Reddish Meat Color 1800k	
▼		•
Warm White	Neutral White	Cold White





ССТ		2000K
▼		-
Warm White	Neutral White	Cold White











CCT		2400K
•		
Warm White	Neutral White	Cold White











REFERENCE CCT VS. APPLICATION































CCT		8000K
		▼.
Warm White	Neutral White	Cold White





VARIOUS OF PRODUCT SPECIFICATION AND COMBINATION

LED	Package	3528 / 5050 / 2835 / 2216 / 3014 / 4040 / 3535 / 4020 / 5630 / 3030
	Brand	Nicha / Osram / Samsung / Seoul / Philip / Bridgelux / Guangmu
	Voltage	3/6/9/18/24V
	Power	0.06 / 0.1 / 0.2 / 0.5 / 1W
	Color	White / Red / Green / Blue / Yellow / Orange / Amber / Pink / Purple / CCT / RGB / RGBW / RGBA / RGBCCT / RGBACCT / Special Color
	CCT	1600 / 1800 / 2000 / 2200 / 2400 / 2700 / 3000 / 3500 /4000 / 5000 / 6500 / 7500 / 10000K
	CRI	80+ / 90+ / 95+ / 97+ Full-Spectrum
	SDCM	1 / 2 / 3 / 5 step
	Base Material	Flex / Rigid FR4 / Rigid Aluminum
	Cover Film Color	white / brown / black / gray / red / green / blue
	Voltage	5 / 12 / 24 / 36 / 48VDC / 120VAC / 230VAC
PCB	Width	3.5 / 4 / 5 / 6 / 8 / 10 / 12 / 14 / 16 / 18 / 20 / 25 / 240 / 300mm
	Copper Layer	1 / 2 layers
	Solder Pad Surface Treatment	OSP(Organic Solderability Preservatives) / ENIG(Immersion Gold) / Immersion Tin
	Copper Thinkness	1 / 2 / 3 / 4oz (1oz≥35um)
	Shape	Linear / Square / Rectangle / Circle / Annular / Irregular
Waterproof	IP Rating	IP20 / IP54 / IP54 Thin / IP54 Plus / IP65 / IP67 / IP67 Plus Thin / IP67 Plus / IP68
	Туре	PCB to PCB / Cable to PCB
	Pin QTY	2 / 3 / 4 / 5 / 6 pins
Connector	Match PCB Width	5/8/10/12mm
	Max. Density	≤90LED/M / ≤120LED/M / ≤240LED/M / ≤300LED/M
	IP Rating	IP20 / IP54 / IP65
	Color	Silver / Black / White
Aluminum Profile	Cover	Milky / Transparent / Black / Prismatic
	Match PCB Width	3.5 / 4 / 5 / 6 / 8 / 10 / 12 / 14 / 16 / 18 / 20 / 25 / 40 / 50 / 60mm
	Installation	Surface mounted / recessed mounted / corner mounted / suspension mounted
Driver	Туре	Desktop / wall-mount / industrial / LED exclusive in C.V. & C.C.
Controller	Control Method	RF / DALI / triac / bluetooth / WIFI / 0-10V / 1-10V / APP
Warranty		3 / 5 years
Certification		CE / ErP / CB / ENEC / RCM / CCC / RoHS / SAA / UL / ETL / LM79 / LM80

WIRE GAUGE SELECTION ACCORDING TO THE DISTANCE BETWEEN DRIVER AND LOAD (Always choice a nearest value for following calculation)

(1st step: calculate the Max. load power/current; 2nd step: measure the distance between driver and load; 3rd step: select the suggested wire gauge)

		24V Voltage Drop & Wire Length Distance (3% Drop or 23.28V)										
Wire Load	20W	30W	40W	50W	60W	70W	80W	90W	100W	150W	200W	300W
	0.83A	1.3A	1.7A	2.1A	2.5A	2.9A	3.3A	3.75A	4.2A	6.25A	8.33A	12.5A
20AWG	13.1m [43ft.]	8.2m [27ft.]	6.4m [21ft.]	5.2m [17ft.]	1st. step 4.3m []4ft.]	3.7m [12ft.]	3.1 m [10ft.]	2.7m [9ft.]	2.4m [8ft.]	1.2m [4ft.]	Don't Use	Don't Use
18AWG	20.7m	13.7m	10.1m	8.2m	6.7m	5.8m	5.2m	4.6m	4.3m	2.1 m	1.5m	1 m
	[68ft.]	[45ft.]	[33ft.]	[27ft.]	[22ft.]	[19ft.]	[17ft.]	[15ft.]	[14ft.]	[7ft.]	[5ft.]	[3.5ft.]
16AWG	33.2m	21.9m	16.5m	13.1m	11m	9.4m	8.2m	7.3m	6.7m	3.4m	2.7m	1.73m
	[109ft.]	[72ft.]	[54ft.]	[43ft.]	[36ft.]	[31ft.]	[27ft.]	[24ft.]	[22ft.]	[11ft.]	[9ft.]	[5.7ft.]
3rd. step 14AWG	53m [1 <i>7</i> 4ft.]	35.1m [115ft.]	26.2m [86ft.]	21 m [69ft.]	2nd. step 17.4m [57ft.]	14.9m [49ft.]	13.1m [43ft.]	11.9m [39ft.]	11m [36ft.]	5.8m [19ft.]	4.3m [14ft.]	2.7m [9ft.]
12AWG	82.9m	55.2m	41.1m	32.9m	27.4m	23.5m	20.7m	18.6m	17.1m	9.1 m	6.7m	4.6m
	[272ft.]	[181ft.]	[135ft.]	[108ft.]	[90ft.]	[77ft.]	[68ft.]	[61ft.]	[56ft.]	[30ft.]	[22ft.]	[15ft.]
10AWG	121m	80.2m	60m	48.2m	39.9m	36.9m	29.9m	29.6m	25m	13.7m	13.7m	6.9m
	[397ft.]	[263ft.]	[197ft.]	[158ft.]	[131ft.]	[121ft.]	[98ft.]	[97ft.]	[82ft.]	[45ft.]	[35ft.]	[22.7ft.]

12V Voltage Drop & Wire Length Distance (3% Drop or 11.64V)												
Vire Load	20W 0.83A	30W 1.3A	40W 1.7A	50W 2.1A	60W 2.5A	70W 2.9A	80W 3.3A	90W 3.75A	100W 4.2A	150W 6.25A	200W 8.33A	300W 12.5A
20AWG	2.7m [9ft.]	1.8m [6ft.]	1.5m [5ft.]	1.2m [4ft.]	0.9m [3ft.]	0.6m [2ft.]	Don't Use	Don't Use	Don't Use	Don't Use	Don't Use	Don't Use
18AWG	5.2m [17ft.]	3.4m [11ft.]	2.4m [8ft.]	1.8m [6ft.]	1.5m [5ft.]	1.2m [4ft.]	1 m [3.4ft.]	0.9m [3ft.]	0.8m [2.7ft.]	0.5m [1.8ft.]	0.4m [1.3ft.]	Don't Use
16AWG	8.2m [27ft.]	5.5m [18ft.]	4m [13ft.]	3.1 m [10ft.]	2.7m [9ft.]	1.9m [6.2ft.]	1.6m [5.4ft.]	1.5m [4.8ft.]	1.4m [4.5ft.]	0.9m [2.9ft.]	0.6m [2.1ft.]	0.4m [1.4ft.]
14AWG	13.1m [43ft.]	8.8m [29ft.]	6.4m [21ft.]	5.2m [17ft.]	4.3m [14ft.]	3m [9.8ft.]	2.6m [8.5ft.]	2.3m [7.7ft.]	2.1 m [7ft.]	1.4m [4.6ft.]	1 m [3.4ft.]	0.7m [2.3ft.]
12AWG	20.7m [68ft.]	13.7m [45ft.]	10.4m [34ft.]	8.2m [27ft.]	6.7m [22ft.]	4.9m [16ft.]	4.1m [13.5ft.]	3.7m [12ft.]	3.4m [11ft.]	2.3m [7.4ft.]	1.7m [5.5ft.]	1.1m [3.6ft.]
10AWG	30.2m [99ft.]	20.1 m [66ft.]	14.9m [49ft.]	11.9m [39ft.]	10.1m [33ft.]	7.6m [25ft.]	7.5m [24.5ft.]	5.9m [19.5ft.]	5.5m [18ft.]	3.5m [11.6ft.]	2.6m [8.6ft.]	1.8m [6ft.]

RELIABLE LED LIFETIME APPROVED BY 10,000 HOURS LM80 REPORT

3528 @20mA&55℃	3528 @20mA&85℃	2835 @60mA&55℃	2835 @60mA&85℃	5050 @60mA&55℃	5050 @60mA&85℃	2216 @60mA&55℃	2216 @60mA&85℃	
Lumen Maintenance		Lumen Mo	intenance	Lumen Mo	aintenance	Lumen Maintenance		
97.76%	97.19%	97.80%	97.03%	97.70%	97.00%	97.90%	97.20%	
Calculated by TM-21		Calculated	by TM-21	Calculated	by TM-21	Calculated by TM-21		
L70=136,000 Hours	L70=111,920 Hours	L70=127,800 Hours	L70=98,160 Hours	L70=131,000 Hours	L70=107,000 Hours	L70=147,000 Hours	L70=123,000 Hours	
L80=87,720 Hours	L80=70,560 Hours	L80=80,080 Hours	L80=64,480 Hours	L80=83,000 Hours	L80=67,000 Hours	L80=112,000 Hours	L80=102,000 Hours	
Reported	by TM-21	Reported	by TM-21	Reported	by TM-21	Reported by TM-21		
L70>60,000 Hours	, L80>60,000 Hours	L70>60,000 Hours,	L80>60,000 Hours	L70>60,000 Hours,	L80>60,000 Hours	L70>60,000 Hours, L80>60,000 Hours		
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LIGHT

is everywhere needed, in various of functional areas of home.



Residence Functional Area Division vs. Lighting Application









Entrance / Corridor

Shoecase

TV cabinet









Wardrobe

Clothes Hanger



Study Room

Kitchen

Bathroom







Bookcase

Bookcase

Bookcase







Cupboard

Cupboard

Drawer







Mirror

Dressing Cabinet

Show Case











Gym Stair & Wall Washer

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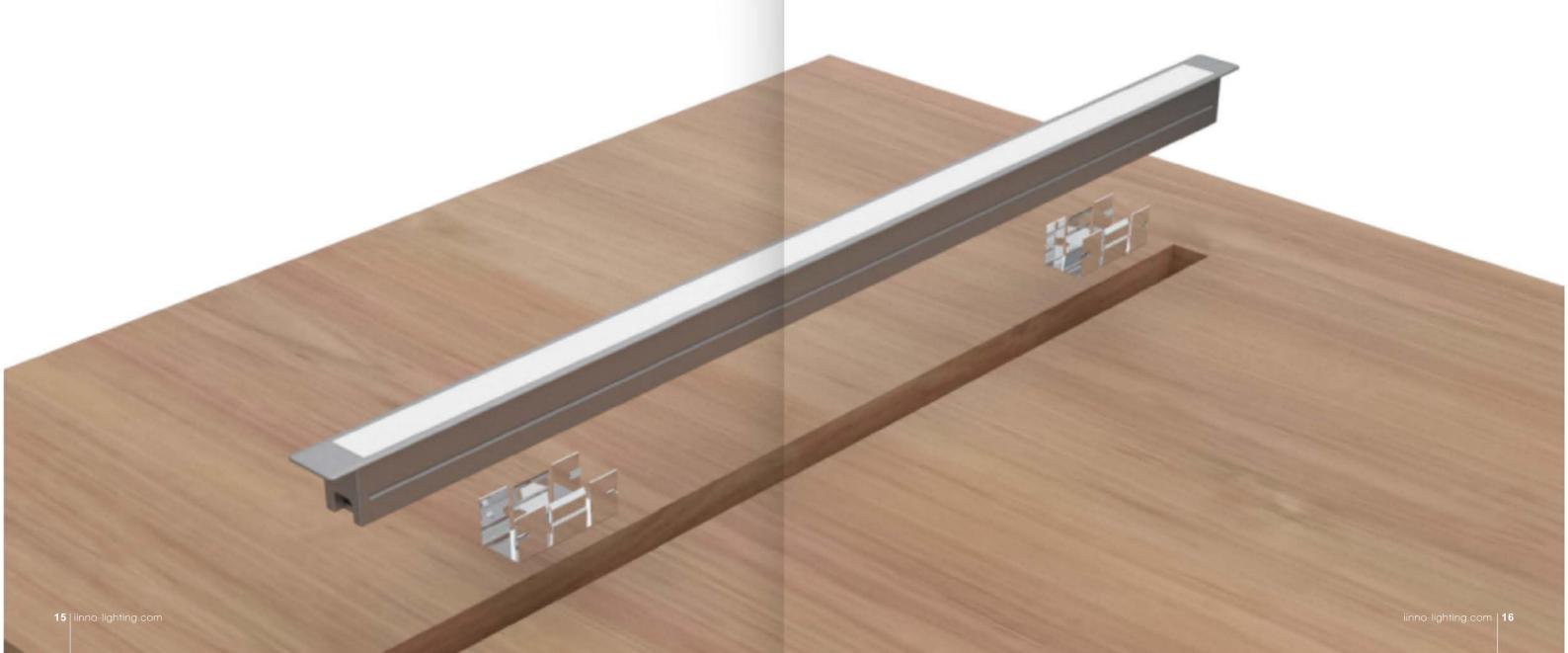








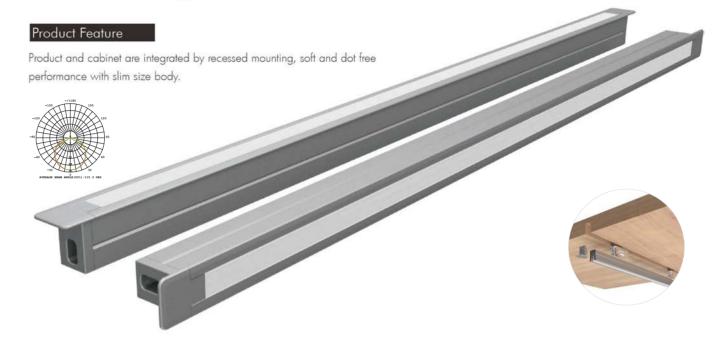






Horizontal-Shelf Recessed Mounting

Downward Emitting



24VDC 33000K 3500K 2700K 120° 120° 216

Part No.: GLRES-0810S

CRI: Ra>90

Unit QTY: 1LED SMD2216 (White)

Increment: 5.59mm [0.23in.]

LED Density: 168LED/M [51LED/ft.]
Brightness: 192lm/M [59lm/ft.]

Power: 8W [2.44W/ft.]

PCB Width: 5mm [0.2in.]

Unit QTY: 6LED SMD2216 (CCT)

Increment: 17.9mm [0.7in.]

LED Density: 168*2LED/M [51*2LED/ft.]

Brightness: 192Im/M [46Im/ft.]

Installation Method: Recessed mounting by insertion

Appearance Color (Surface Treatment): Standard - iron grey (sand blasting)

Switch Mode (optional):

PIR/ Single Door Contact / Double Doors Contact / Hand Scanning Inductive / Touch Dimming / Wireless

Driver (optional

Self-developed 20/30/48/60/72/100W power supply, or other types of power supply.

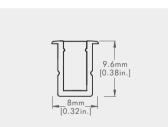
Standard Lenath

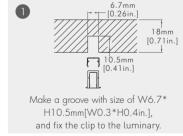
Maximum shipping length is 3000mm [11 8in.] for the aluminum profile and cover. Customized sizes within the maximum length are also acceptable.

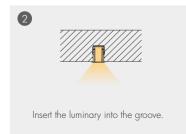
Note 1: Luminous flux for CCT 2700K is 10% lower, for CCT 3000K/3500K is 5% lower, for CCT 5000K/6500K is the same, compared with 4000K.

Note 2: Customized color needs to be evaluated additionally, please contact us for details.

Installation Diagram









Horizontal-Shelf Recessed Mounting



3500K 4000K 2708 120° 120° 2216

CRI: Ra>90

Unit QTY: 1LED SMD2216 (White)

Part No.: GLRES-0910A

Increment: 5.59mm [0.23in.]
LED Density: 168LED/M [51LED/ft.]

Brightness: 160lm/M [49lm/ft.]

Power: 8W [2.44W/ft.]

PCB Width: 5mm [0.2in.]

Unit QTY: 6LED SMD2216 (CCT)
Increment: 17.9mm [0.7in.]

LED Density: 168*2LED/M [51*2LED/ft.]
Brightness: 160lm/M [49lm/ft.]

Installation Method: Recessed mounting by insertion

Appearance Color (Surface Treatment): Standard - iron grey (sand blasting)

Switch Mode (optional):

PIR/ Single Door Contact / Double Doors Contact / Hand Scanning Inductive / Touch Dimming / Wireless

Driver (optional

Self-developed 20/30/48/60/72/100W power supply, or other types of power supply.

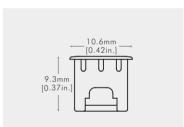
Standard Length:

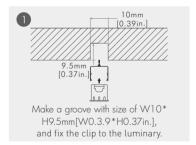
Maximum shipping length is 3000mm [11 8in.] for the aluminum profile and cover. Customized sizes within the maximum length are also acceptable.

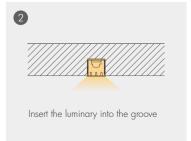
Note 1: Luminous flux for CCT 2700K is 10% lower, for CCT 3000K/3500K is 5% lower, for CCT 5000K/6500K is the same, compared with 4000K.

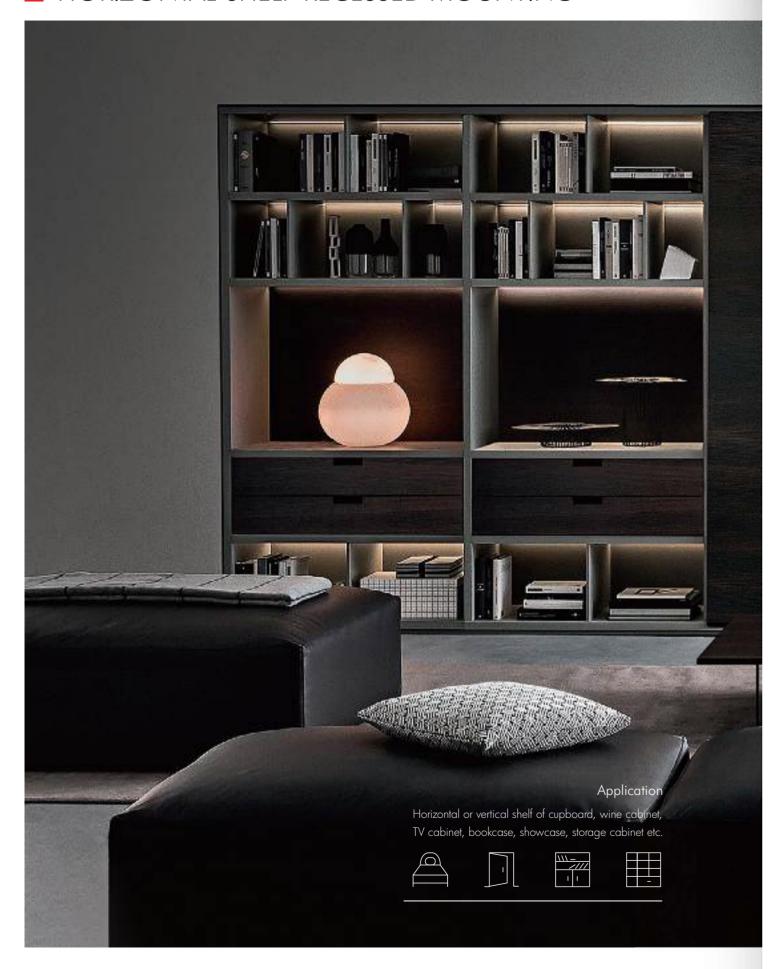
Note 2: Customized color needs to be evaluated additionally, please contact us for details.

Installation Diagram









Horizontal-Shelf Recessed Mounting



Part No.: GLRES-0910B

CRI: Ra>90

Unit QTY: 1LED SMD2216 (White)

Increment: 5.59mm [0.23in.]

LED Density: 168LED/M [51LED/ft.]

Brightness: 136lm/M [41lm/ft.]

Power: 8W [2.44W/ft.]

PCB Width: 5mm [0.2in.]

Unit QTY: 6LED SMD2216 (CCT)

Increment: 17.9mm [0.7in.]

LED Density: 168*2LED/M [51*2LED/ft.] Brightness: 136lm/M [41lm/ft.]

Installation Method: Recessed mounting by insertion

Appearance Color (Surface Treatment): Standard - iron grey (sand blasting)

Switch Mode (optional):

PIR/ Single Door Contact / Double Doors Contact / Hand Scanning Inductive / Touch Dimming / Wireless

Self-developed 20/30/48/60/72/100W power supply, or other types of power supply.

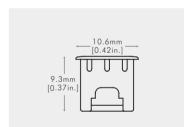
Standard Length:

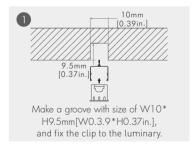
Maximum shipping length is 3000mm [11 8in.] for the aluminum profile and cover. Customized sizes within the maximum length are also acceptable.

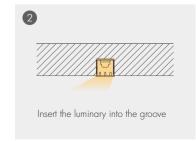
Note 1: Luminous flux for CCT 2700K is 10% lower, for CCT 3000K/3500K is 5% lower, for CCT 5000K/6500K is the same, compared with 4000K.

Note 2: Customized color needs to be evaluated additionally, please contact us for details.

Installation Diagram



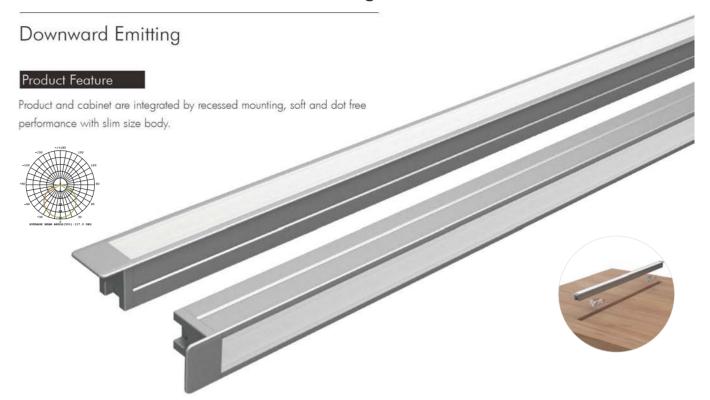




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Horizontal-Shelf Recessed Mounting



3000K 3500K 4000K 2700K 120° 120° 5 YI

Part No.: GLRES-1010B Power: 8W [2.44W/ft.]

CRI: Ra>90 PCB Width: 5mm [0.2in.]

 Unit QTY:
 1LED SMD2216 (White)
 Unit QTY:
 6LED SMD2216 (CCT)

 Increment:
 5.59mm [0.23in.]
 Increment:
 17.9mm [0.7in.]

LED Density: 168LED/M [51LED/ft.]

Brightness: 184Im/M [56Im/ft.]

Brightness: 176Im/M [54Im/ft.]

Installation Method: Recessed mounting by insertion

Appearance Color (Surface Treatment): Standard - iron grey (sand blasting)

Switch Mode (optional):

PIR/ Single Door Contact / Double Doors Contact / Hand Scanning Inductive / Touch Dimming / Wireless

Driver (optional

Self-developed 20/30/48/60/72/100W power supply, or other types of power supply.

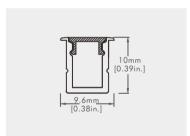
Standard Length:

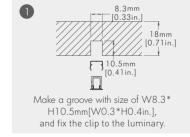
Maximum shipping length is 3000mm [11 8in.] for the aluminum profile and cover. Customized sizes within the maximum length are also acceptable.

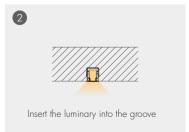
Note 1: Luminous flux for CCT 2700K is 10% lower, for CCT 3000K/3500K is 5% lower, for CCT 5000K/6500K is the same, compared with 4000K.

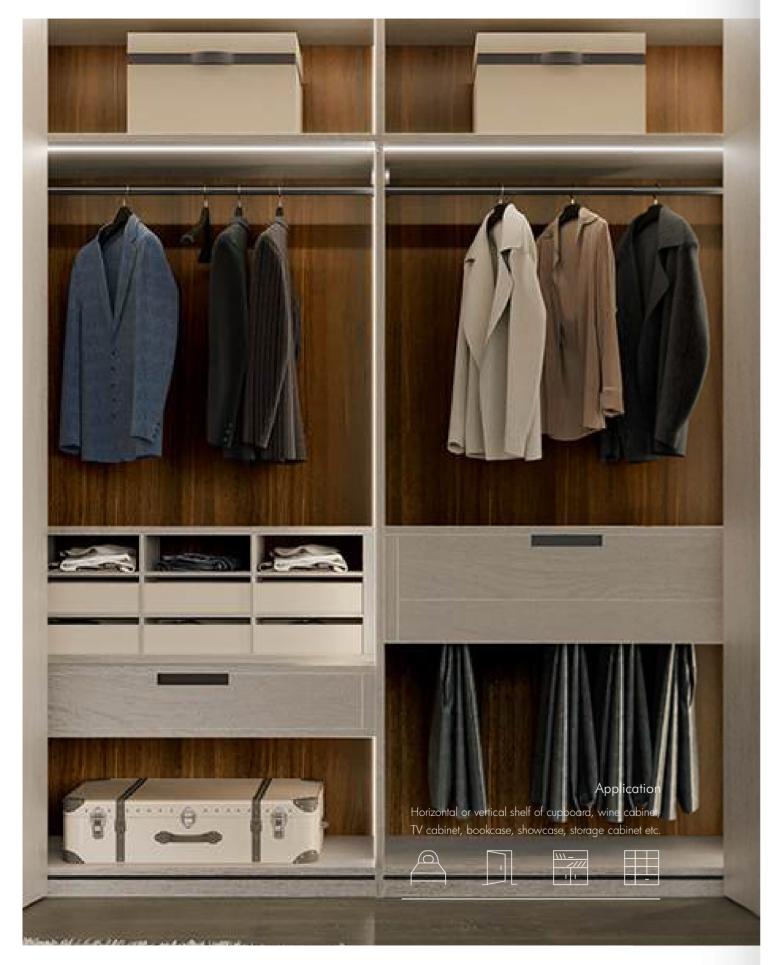
Note 2: Customized color needs to be evaluated additionally, please contact us for details.

Installation Diagram









Horizontal-Shelf Recessed Mounting



 Part No.:
 GLRES-1010C
 Power:
 8W [2.44W/ft.]

 CRI:
 Ra > 90
 PCB Width:
 6.2mm [0.24in.]

 Unit QTY:
 1LED SMD2216 (White)
 Unit QTY: /
 Increment:
 13.5mm [0.53in.]

 LED Density:
 148LED/M [45LED/ft.]
 LED Density: /

Brightness: /

Installation Method: Recessed mounting by bracket

Appearance Color (Surface Treatment): Standard - iron grey (sand blasting)

Brightness: 184lm/M [56lm/ft.]

Switch Mode (optional):

PIR/ Single Door Contact / Double Doors Contact / Hand Scanning Inductive / Touch Dimming / Wireless

Driver (optional):

Self-developed 20/30/48/60/72/100W power supply, or other types of power supply.

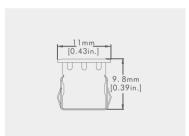
Standard Length:

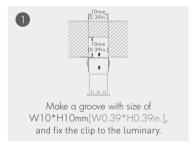
Maximum shipping length is 3000mm [11 8in.] for the aluminum profile and cover. Customized sizes within the maximum length are also acceptable.

Note 1: Luminous flux for CCT 2700K is 10% lower, for CCT 3000K/3500K is 5% lower, for CCT 5000K/6500K is the same, compared with 4000K.

Note 2: Customized color needs to be evaluated additionally, please contact us for details.

Installation Diagram









Horizontal-Shelf Recessed Mounting







Part No.: GLRES-1512B

Downward Emitting

CRI: <u>Ra>90</u>

Unit QTY: 1LED SMD2216 (White)

Increment: 5.59mm [0.23in.]

LED Density: 168LED/M [51LED/ft.]

Brightness: 240lm/M [73lm/ft.]

Power: 8W [2.44W/ft.]

PCB Width: 5mm [0.2in.]

Unit QTY: 6LED SMD2216 (CCT)
Increment: 17.9mm [0.7in.]

LED Density: 168*2LED/M [51*2LED/ft.]
Brightness: 240lm/M [73lm/ft.]

Installation Method: Recessed mounting by bracket

Appearance Color (Surface Treatment): Standard - iron grey (sand blasting)

Switch Mode (optional):

PIR/ Single Door Contact / Double Doors Contact / Hand Scanning Inductive / Touch Dimming / Wireless

Driver (optional

Self-developed 20/30/48/60/72/100W power supply, or other types of power supply.

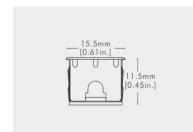
Standard Lenath

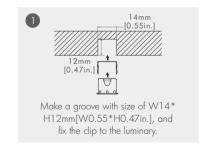
Maximum shipping length is 3000mm [11 8in.] for the aluminum profile and cover. Customized sizes within the maximum length are also acceptable.

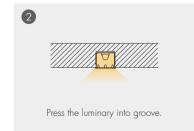
Note 1: Luminous flux for CCT 2700K is 10% lower, for CCT 3000K/3500K is 5% lower, for CCT 5000K/6500K is the same, compared with 4000K.

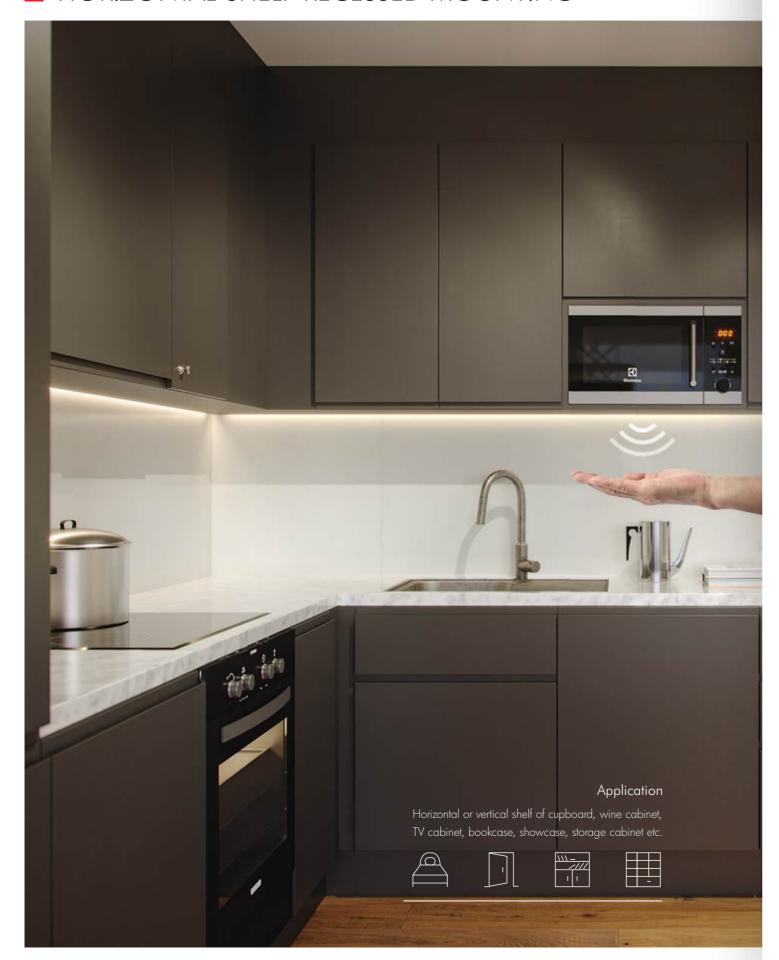
Note 2: Customized color needs to be evaluated additionally, please contact us for details.

Installation Diagram









Horizontal-Shelf Recessed Mounting



 Part No.:
 GLRES-1512C
 Power:
 8W [2.44W/ft.]

 CRI:
 Ra>90
 PCB Width:
 5mm [0.2in.]

 Unit QTY:
 1LED SMD2216 (White)
 Unit QTY:
 /

 Increment:
 5.59mm [0.23in.]
 Increment:
 /

 LED Density:
 168LED/M [51LED/ft.]
 LED Density:
 /

 Brightness:
 240lm/M [73lm/ft.]
 Brightness:
 /

Installation Method: Recessed mounting by bracket

Appearance Color (Surface Treatment): Standard - iron grey (sand blasting)

Switch Mode (standard): Hand Scanning Inductive

Driver (optional):

Self-developed 20/30/48/60/72/100W power supply, or other types of power supply.

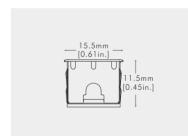
Standard Length

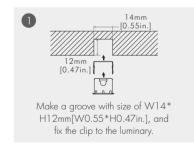
Maximum shipping length is 3000mm [11 8in.] for the aluminum profile and cover. Customized sizes within the maximum length are also acceptable.

Note 1: Luminous flux for CCT 2700K is 10% lower, for CCT 3000K/3500K is 5% lower, for CCT 5000K/6500K is the same, compared with 4000K.

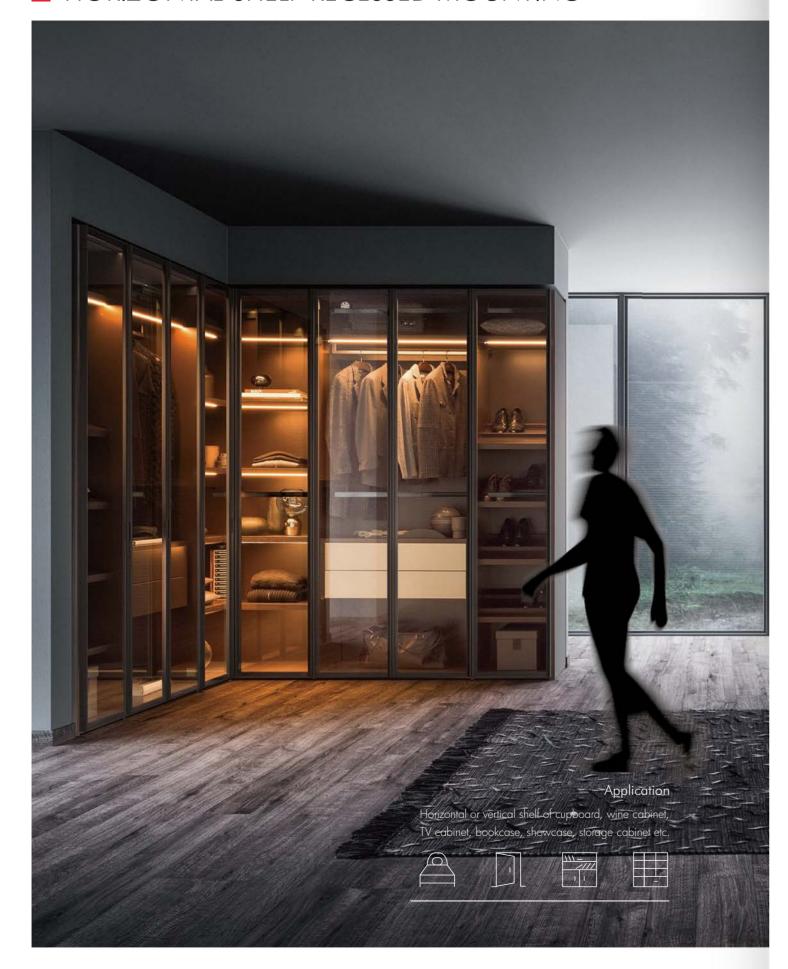
Note 2: Customized color needs to be evaluated additionally, please contact us for details.

Installation Diagram









Horizontal-Shelf Recessed Mounting



 Part No.: GLRES-1512D
 Power: 8W [2.44W/ft.]

 CRI: Ra>90
 PCB Width: 5mm [0.2in.]

 Unit QTY: 1LED SMD2216 (White)
 Unit QTY: /

 Increment: 5.59mm [0.23in.]
 Increment: /

 LED Density: 168LED/M [51LED/ft.]
 LED Density: /

 Brightness: 240lm/M [73lm/ft.]
 Brightness: /

Installation Method: Recessed mounting by bracket

Appearance Color (Surface Treatment): Standard - iron grey (sand blasting)

Switch Mode (standard):

Driver (optional):

Self-developed 20/30/48/60/72/100W power supply, or other types of power supply.

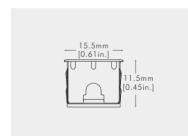
Standard Lenat

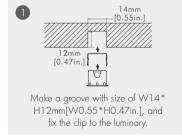
Maximum shipping length is 3000mm [11 8in.] for the aluminum profile and cover. Customized sizes within the maximum length are also acceptable.

Note 1: Luminous flux for CCT 2700K is 10% lower, for CCT 3000K/3500K is 5% lower, for CCT 5000K/6500K is the same, compared with 4000K.

Note 2: Customized color needs to be evaluated additionally, please contact us for details.

Installation Diagram











Horizontal-Shelf Front-Edge Mounting

45 Degree Inward Emitting



Part No.: GLRES-3314

CRI: Ra>90

Unit QTY: 1LED SMD2216 (White)

Increment: 5.59mm [0.23in.]

LED Density: 168LED/M [51LED/ft.]

Brightness: 176lm/M [54lm/ft.]

Power: 8W [2.44W/ft.]

PCB Width: 5mm [0.2in.]

Unit QTY: 6LED SMD2216 (CCT)
Increment: 17.9mm [0.7in.]

LED Density: 168*2LED/M [51*2LED/ft.]
Brightness: 176Im/M [54Im/ft.]

Installation Method: Embeded into wooden shelf

Appearance Color (Surface Treatment): Standard - iron grey (sand blasting)

Switch Mode (optional):

PIR/ Single Door Contact / Double Doors Contact / Hand Scanning Inductive / Touch Dimming / Wireless

Driver (optional

Self-developed 20/30/48/60/72/100W power supply, or other types of power supply.

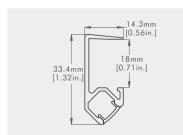
Standard Lenat

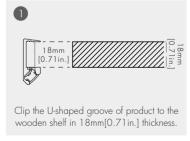
Maximum shipping length is 3000mm [11 8in.] for the aluminum profile and cover. Customized sizes within the maximum length are also acceptable.

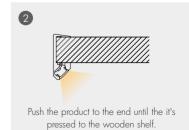
Note 1: Luminous flux for CCT 2700K is 10% lower, for CCT 3000K/3500K is 5% lower, for CCT 5000K/6500K is the same, compared with 4000K.

Note 2: Customized color needs to be evaluated additionally, please contact us for details.

Installation Diagram









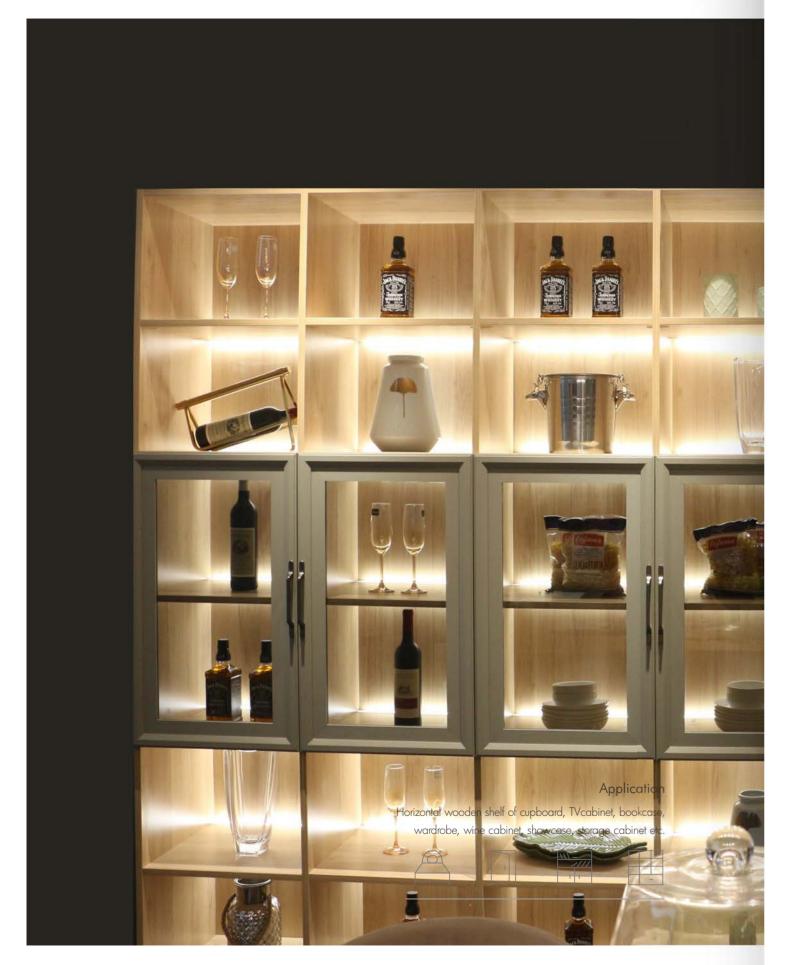












Horizontal-Shelf Rear-Edge Mounting

Upward & Downward Emitting



24VDC 3000K 3500K 4000K 2700K 576AR 120° 2216 5YEAR

Part No.: GLRES-1826

CRI: Ra>90

Unit QTY: 1LED SMD2216 (White)

Increment: 5.59mm [0.23in.]

LED Density: 168LED/M [51LED/ft.]

Brightness: 464lm/M [141lm/ft.]

Power: 8W [2.44W/ft.]

PCB Width: 5mm [0.2in.]

Unit QTY: 6LED SMD2216 (CCT)
Increment: 17.9mm [0.7in.]

LED Density: 168*2LED/M [51*2LED/ft.]
Brightness: 464lm/M [141lm/ft.]

Installation Method: Embeded into wooden shelf

Appearance Color (Surface Treatment): Standard - iron grey (sand blasting)

Switch Mode (optional):

PIR/ Single Door Contact / Double Doors Contact / Hand Scanning Inductive / Touch Dimming / Wireless

Driver (optional

Self-developed 20/30/48/60/72/100W power supply, or other types of power supply.

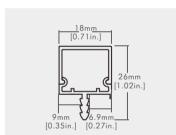
Standard Lenat

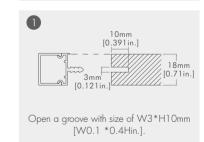
Maximum shipping length is 3000mm [11 8in.] for the aluminum profile and cover. Customized sizes within the maximum length are also acceptable.

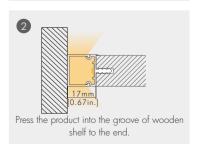
Note 1: Luminous flux for CCT 2700K is 10% lower, for CCT 3000K/3500K is 5% lower, for CCT 5000K/6500K is the same, compared with 4000K.

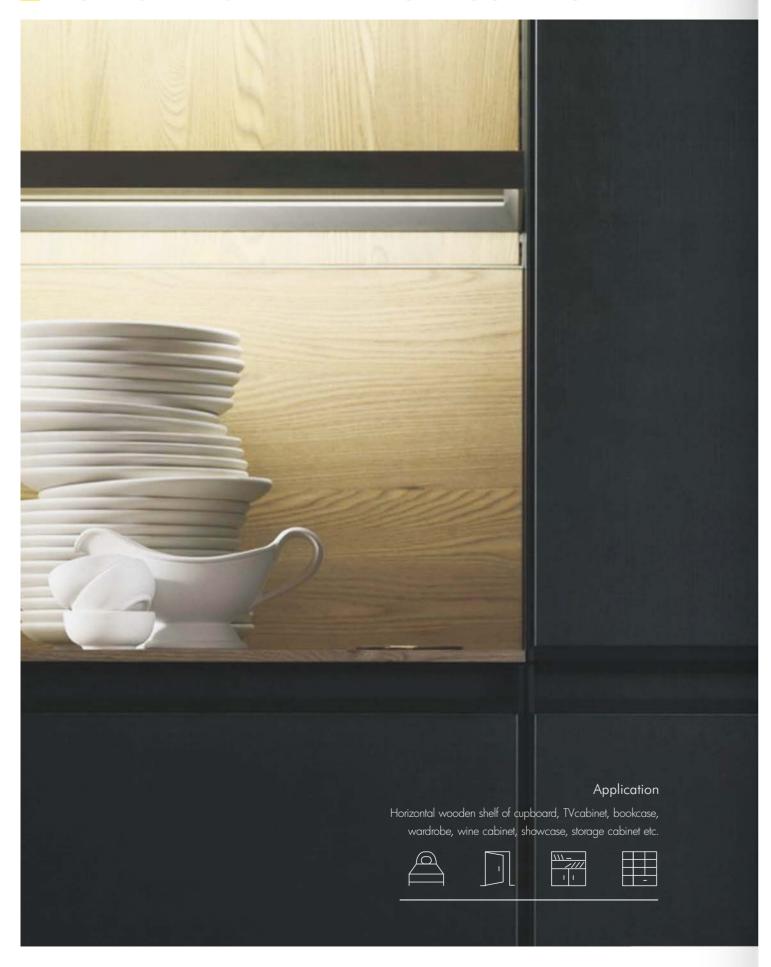
Note 2: Customized color needs to be evaluated additionally, please contact us for details.

Installation Diagram











Appearance Color (Surface Treatment): Standard - iron grey (sand blasting)

Switch Mode (optional):

PIR/ Single Door Contact / Double Doors Contact / Hand Scanning Inductive / Touch Dimming / Wireless

Driver (optional):

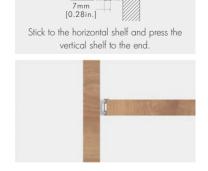
Self-developed 20/30/48/60/72/100W power supply, or other types of power supply.

Standard Length:

Maximum shipping length is 3000mm [11 8in.] for the aluminum profile and cover. Customized sizes within the maximum length are also acceptable.

Note 1: Luminous flux for CCT 2700K is 10% lower, for CCT 3000K/3500K is 5% lower, for CCT 5000K/6500K is the same, compared with 4000K.

Note 2: Customized color needs to be evaluated additionally, please contact us for details.





Horizontal-Shelf Rear-Edge Mounting

Upward & Downward Emitting (Solder-free Connect)



3000K 3500K 120* 24VDC 5 YEAR

CRI: Ra>90

Part No.: GLRES-0818B

Unit QTY: 1LED SMD2216 (White)

Increment: 13.5mm [0.53in.]

LED Density: 148LED/M [45LED/ft.]

Brightness: 110lm/M [34lm/ft.]

Power: 8W [2.44W/ft.]

PCB Width: 6.8mm [0.27in.]

Unit QTY: /

LED Density: /
Brightness: /

Installation Method: Embeded into wooden shelf

Appearance Color (Surface Treatment): Standard - iron grey (sand blasting)

Switch Mode (optional):

PIR/ Single Door Contact / Double Doors Contact / Hand Scanning Inductive / Touch Dimming / Wireless

Driver (optional

Self-developed 20/30/48/60/72/100W power supply, or other types of power supply.

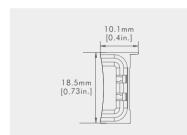
Standard Lenat

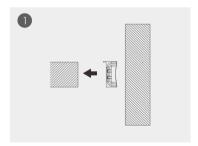
Maximum shipping length is 3000mm [11 8in.] for the aluminum profile and cover. Customized sizes within the maximum length are also acceptable.

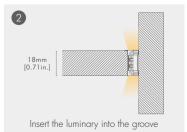
Note 1: Luminous flux for CCT 2700K is 10% lower, for CCT 3000K/3500K is 5% lower, for CCT 5000K/6500K is the same, compared with 4000K.

Note 2: Customized color needs to be evaluated additionally, please contact us for details.

Installation Diagram



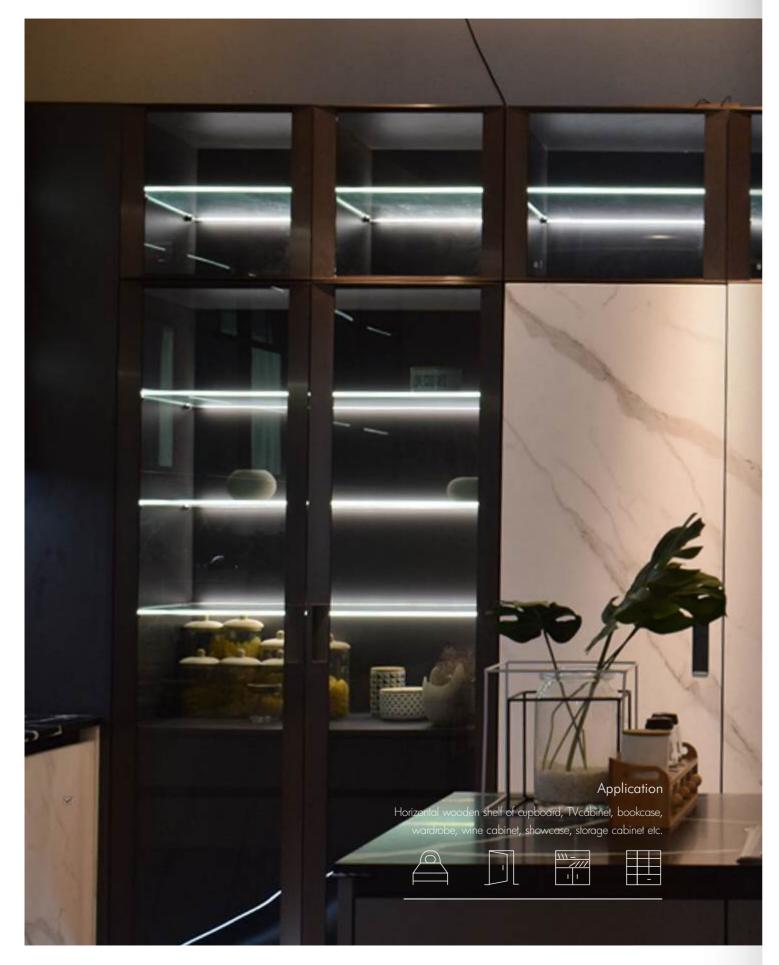






GLASS SHELF REAR-EDGE MOUNTING

GLASS SHELF REAR-EDGEMOUNTING



Glass Shelf Rear-Edge Mounting







Part No.: GLRES-1018

CRI: Ra>90

Unit QTY: 1LED SMD2216 (White)

Increment: 5.59mm [0.23in.]

LED Density: 168LED/M [51LED/ft.]

Brightness: 80lm/M [24lm/ft.]

PCB Width: 5mm [0.2in.]

Unit QTY: 6LED SMD2216 (CCT)

Increment: 17.9mm [0.7in.]

LED Density: 168*2LED/M [51*2LED/ft.]

Brightness: 80Im/M [24Im/ft.]

Installation Method: Clip to the glass edge

Appearance Color (Surface Treatment): Standard - iron grey (sand blasting)

Switch Mode (optional):

PIR/ Single Door Contact / Double Doors Contact / Hand Scanning Inductive / Touch Dimming / Wireless

Driver (optional):

Self-developed 20/30/48/60/72/100W power supply, or other types of power supply.

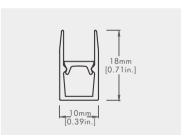
Standard Lenat

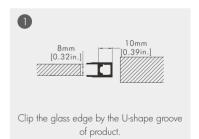
Maximum shipping length is 3000mm [11 8in.] for the aluminum profile and cover. Customized sizes within the maximum length are also acceptable.

Note 1: Luminous flux for CCT 2700K is 10% lower, for CCT 3000K/3500K is 5% lower, for CCT 5000K/6500K is the same, compared with 4000K.

Note 2: Customized color needs to be evaluated additionally, please contact us for details.

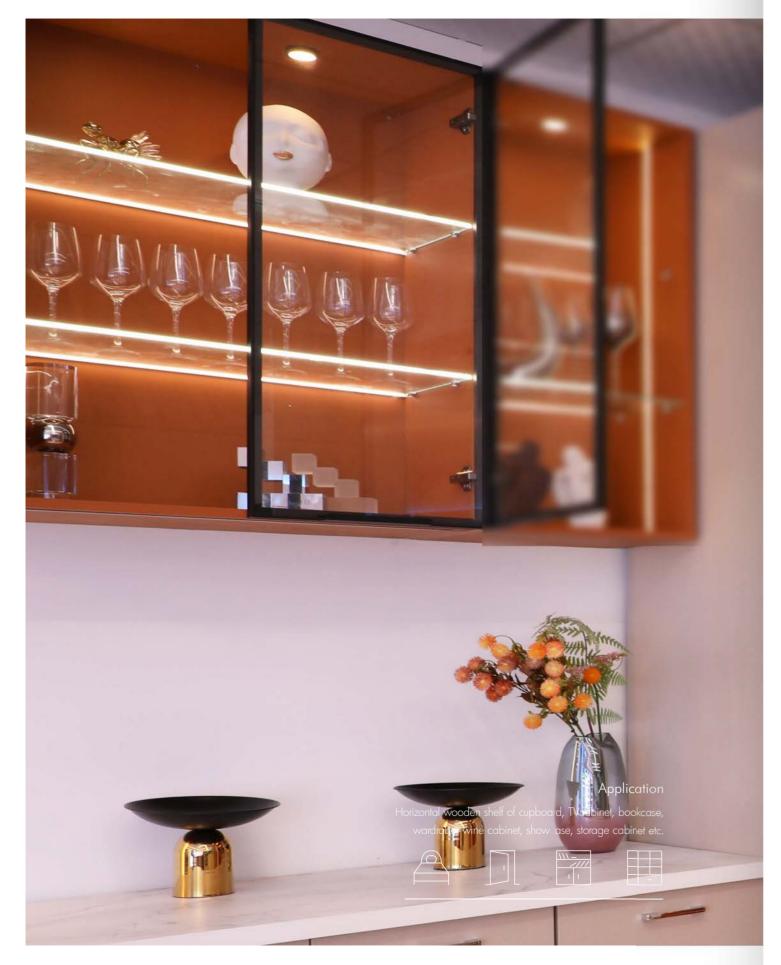
Installation Diagram







GLASS SHELF REAR-EDGE MOUNTING



Glass Shelf Rear-Edge Mounting

Forward Emitting

Product Feature Illuminate the whole glass panel by edge-lit with the principle of light guide, well integrated with glass shelf and creat colorful performance.

Part No.: GLRES-1218

CRI: Ra>90

Unit QTY: 1LED SMD2216 (White)

Increment: 5.59mm [0.23in.]

LED Density: 168LED/M [51LED/ft.]
Brightness: 304lm/M [93lm/ft.]

Power: 8W [2.44W/ft.]

PCB Width: 5mm [0.2in.]

Unit QTY: 6LED SMD2216 (CCT)
Increment: 17.9mm [0.7in.]

LED Density: 168*2LED/M [51*2LED/ft.]

Brightness: 304lm/M [93lm/ft.]

Installation Method: Clip to the glass edge

Appearance Color (Surface Treatment): Standard - iron grey (sand blasting)

Switch Mode (optional):

PIR/ Single Door Contact / Double Doors Contact / Hand Scanning Inductive / Touch Dimming / Wireless

Oriver (optional):

Self-developed 20/30/48/60/72/100W power supply, or other types of power supply.

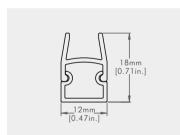
Standard Length:

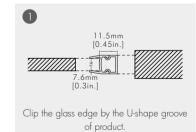
Maximum shipping length is 3000mm [11 8in.] for the aluminum profile and cover. Customized sizes within the maximum length are also acceptable.

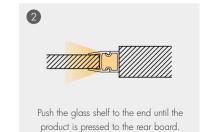
Note 1: Luminous flux for CCT 2700K is 10% lower, for CCT 3000K/3500K is 5% lower, for CCT 5000K/6500K is the same, compared with 4000K.

Note 2: Customized color needs to be evaluated additionally, please contact us for details.

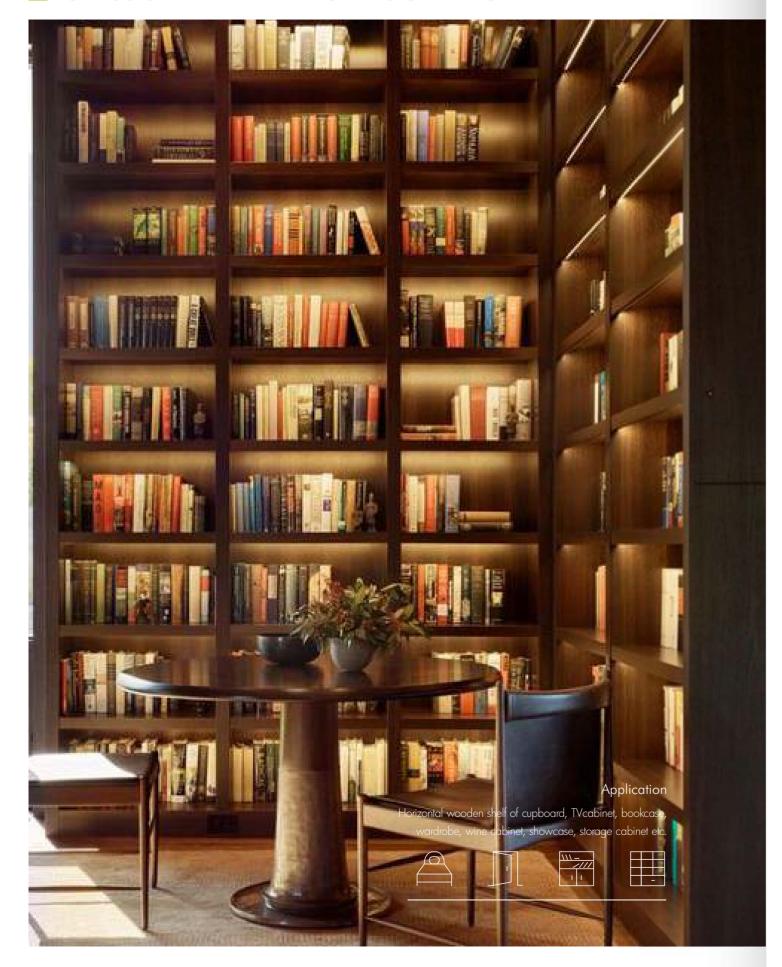
Installation Diagram







GLASS SHELF REAR-EDGEMOUNTING



Glass Shelf Rear-Edge Mounting



LED Density: /

Brightness: /

Installation Method: Clip to the glass edge

LED Density: 148LED/M [45LED/ft.]

Brightness: 280lm/M [85lm/ft.]

Appearance Color (Surface Treatment): Standard - iron grey (sand blasting)

Switch Mode (optional):

PIR/ Single Door Contact / Double Doors Contact / Hand Scanning Inductive / Touch Dimming / Wireless

Driver (optional

Self-developed 20/30/48/60/72/100W power supply, or other types of power supply.

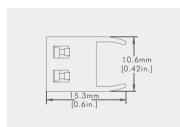
Standard Length:

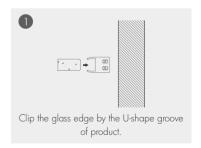
Maximum shipping length is 3000mm [11 8in.] for the aluminum profile and cover. Customized sizes within the maximum length are also acceptable.

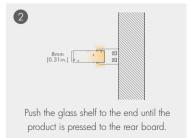
Note 1: Luminous flux for CCT 2700K is 10% lower, for CCT 3000K/3500K is 5% lower, for CCT 5000K/6500K is the same, compared with 4000K.

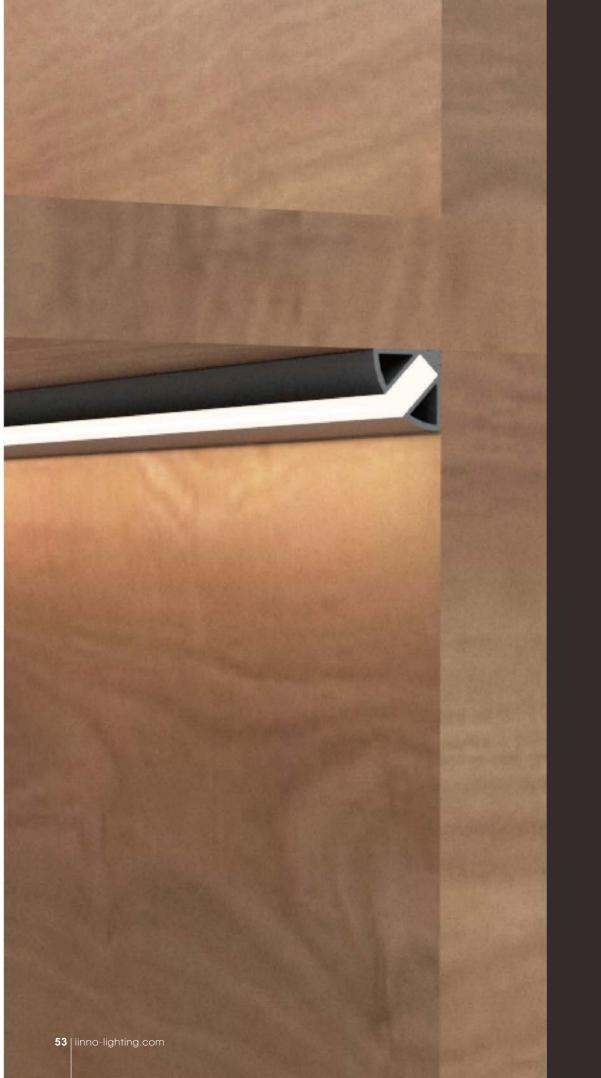
Note 2: Customized color needs to be evaluated additionally, please contact us for details.

Installation Diagram

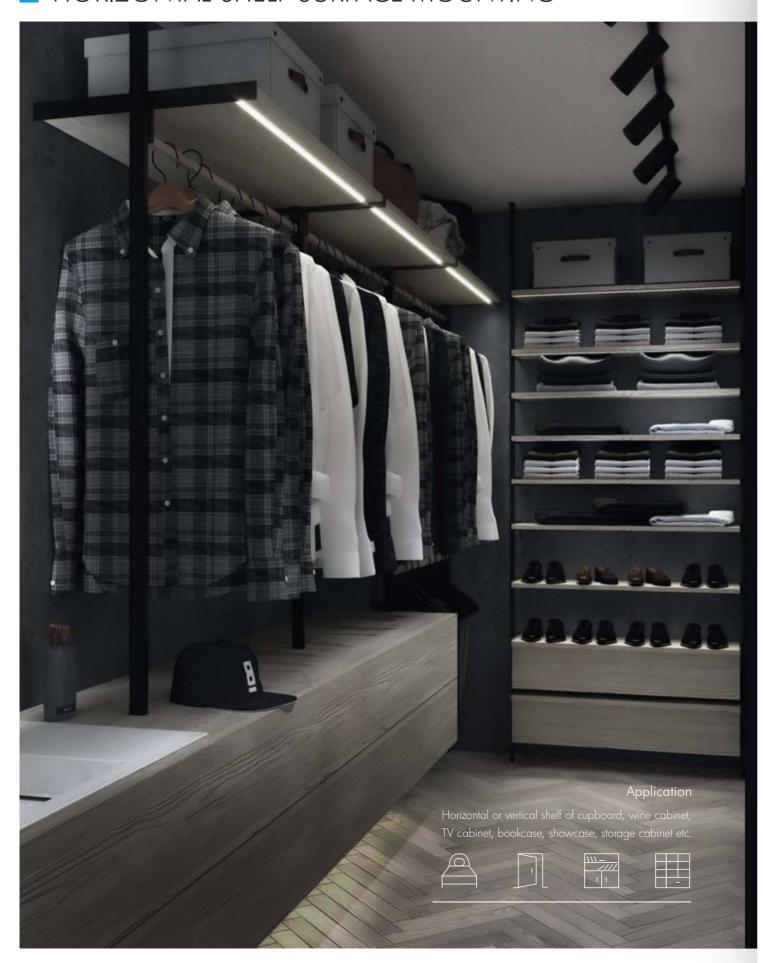












Horizontal-Shelf Surface Mounting

Downward Emitting

Product Feature

Convenient installation by adhesive tape or bracket without grooving, classic appearance, compact design, easy maintenance.





Part No.: GLRES-1209

CRI: Ra>90

Unit QTY: 1LED SMD2216 (White)

Increment: 5.59mm [0.23in.]

Brightness: 160lm/M [49lm/ft.]

LED Density: 168LED/M [51LED/ft.]

Power: 8W [2.44W/ft.]

PCB Width: 5mm [0.2in.]

Unit QTY: 6LED SMD2216 (CCT) Increment: 17.9mm [0.7in.]

LED Density: 168*2LED/M [51*2LED/ft.] Brightness: 160lm/M [49lm/ft.]

Installation Method: Recessed mounting by adhesive tape or bracket

Appearance Color (Surface Treatment):

Standard - silver (Anodizing)

Switch Mode (optional):

PIR/ Single Door Contact / Double Doors Contact / Hand Scanning Inductive / Touch Dimming / Wireless

Self-developed 20/30/48/60/72/100W power supply, or other types of power supply.

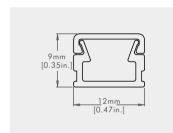
Standard Length:

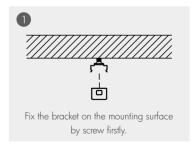
Maximum shipping length is 3000mm [11 8in.] for the aluminum profile and cover. Customized sizes within the maximum length are also acceptable.

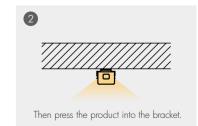
Note 1: Luminous flux for CCT 2700K is 10% lower, for CCT 3000K/3500K is 5% lower, for CCT 5000K/6500K is the same, compared with 4000K.

Note 2: Customized color needs to be evaluated additionally, please contact us for details.

Installation Diagram







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Horizontal-Shelf Surface Mounting



24VDC 3000K 3500K 4000K 2700K 120° 120° 55

Part No.: GLRES-1611

CRI: Ra>90

Unit QTY: 1LED SMD2216 (White)

Increment: 5.59mm [0.23in.]

LED Density: 168LED/M [51LED/ft.]

Brightness: 224lm/M [68lm/ft.]

Power: 8W [2.44W/ft.]

PCB Width: 5mm [0.2in.]

Unit QTY: 6LED SMD2216 (CCT)
Increment: 17.9mm [0.7in.]

LED Density: 168*2LED/M [51*2LED/ft.]
Brightness: 224lm/M [68lm/ft.]

Installation Method: Surface mounting on corner by adhesive

Appearance Color (Surface Treatment): Standard - iron grey (sand blasting)

Switch Mode (optional):

PIR/ Single Door Contact / Double Doors Contact / Hand Scanning Inductive / Touch Dimming / Wireless

Driver (optional):

Self-developed 20/30/48/60/72/100W power supply, or other types of power supply.

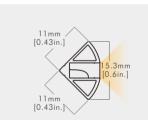
Standard Length:

Maximum shipping length is 3000mm [11 8in.] for the aluminum profile and cover. Customized sizes within the maximum length are also acceptable.

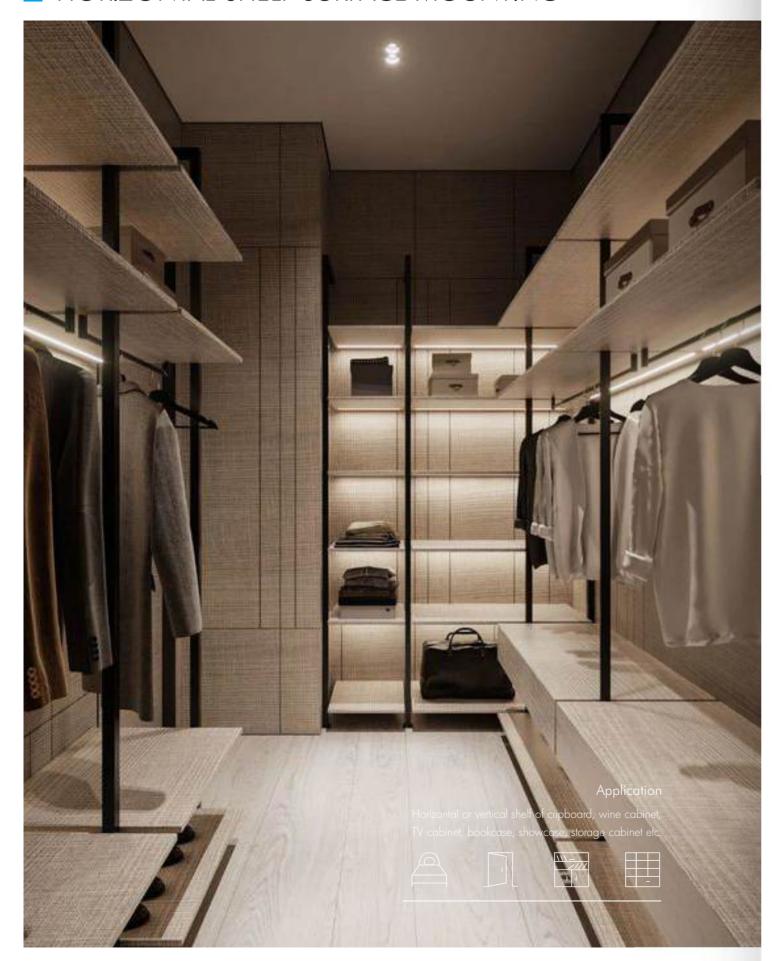
Note 1: Luminous flux for CCT 2700K is 10% lower, for CCT 3000K/3500K is 5% lower, for CCT 5000K/6500K is the same, compared with 4000K.

Note 2: Customized color needs to be evaluated additionally, please contact us for details.

Installation Diagram







Horizontal-Shelf Surface Mounting

Corner Inward Emitting (Solder-free Connect)



Part No.: GLRES-1616A CRI: Ra>90

Unit QTY: 1LED SMD2216 (White)

LED Density: 148LED/M [45LED/ft.]

Brightness: 410lm/M [125lm/ft.]

Increment: 13.5mm [0.53in.]

PCB Width: 7.8mm [0.31in.] Unit QTY: /

Power: 8W [2.44W/ft.]

Increment: /

LED Density: / Brightness: /

Installation Method: Surface mounting on corner by bracket

Appearance Color (Surface Treatment): Standard - iron grey (sand blasting)

Switch Mode (optional):

PIR/ Single Door Contact / Double Doors Contact / Hand Scanning Inductive / Touch Dimming / Wireless

Self-developed 20/30/48/60/72/100W power supply, or other types of power supply.

Maximum shipping length is 3000mm [11 8in.] for the aluminum profile and cover. Customized sizes within the maximum length are also acceptable.

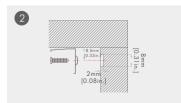
Note 1: Luminous flux for CCT 2700K is 10% lower, for CCT 3000K/3500K is 5% lower, for CCT 5000K/6500K is the same, compared with 4000K.

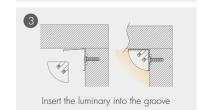
Note 2: Customized color needs to be evaluated additionally, please contact us for details.

Installation Diagram









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VERTICAL-SHELF RECESSED MOUNTING



Vertical-Shelf Recessed Mounting

Side Emitting



Installation Method: Recessed mounting by insertion

Appearance Color (Surface Treatment):

Standard - iron grey (sand blasting)

Switch Mode (optional):

PIR/ Single Door Contact / Double Doors Contact / Hand Scanning Inductive / Touch Dimming / Wireless

Driver (optional):

Self-developed 20/30/48/60/72/100W power supply, or other types of power supply.

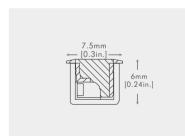
Standard Length:

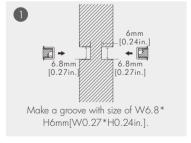
Maximum shipping length is 3000mm [11 8in.] for the aluminum profile and cover. Customized sizes within the maximum length are also acceptable.

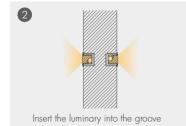
Note 1: Luminous flux for CCT 2700K is 10% lower, for CCT 3000K/3500K is 5% lower, for CCT 5000K/6500K is the same, compared with 4000K.

Note 2: Customized color needs to be evaluated additionally, please contact us for details.

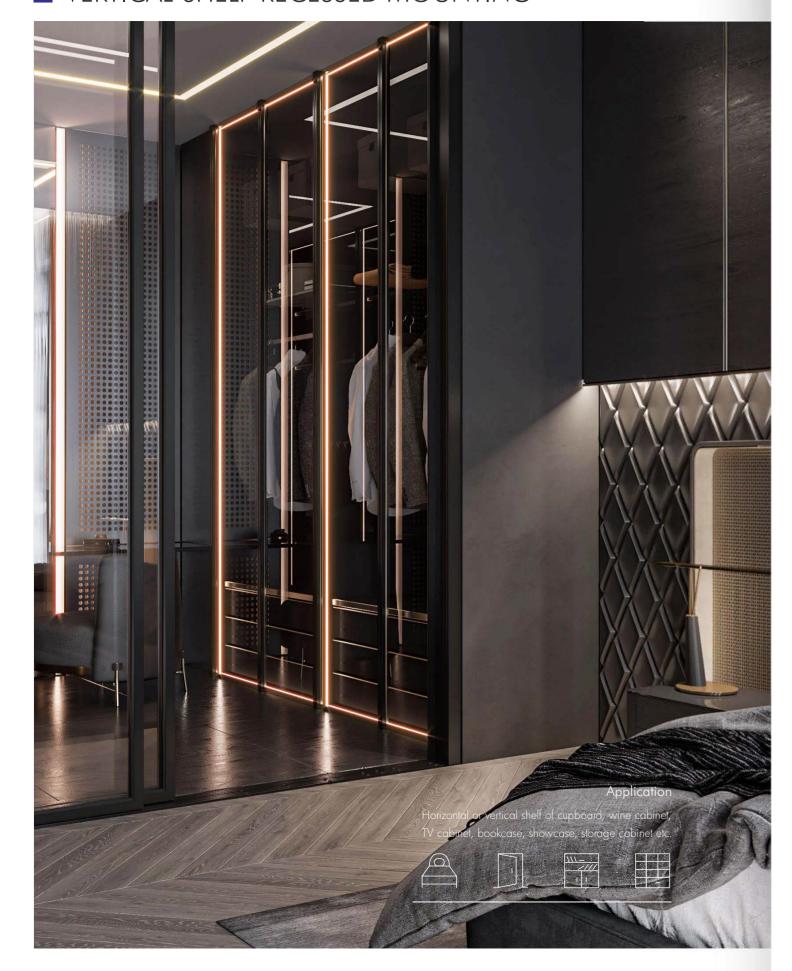
Installation Diagram



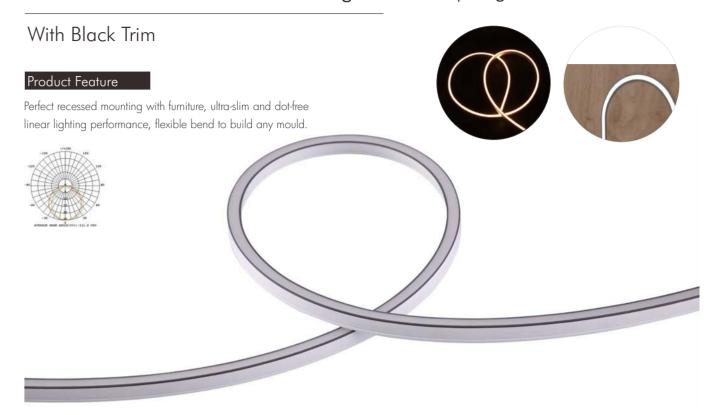




VERTICAL-SHELF RECESSED MOUNTING



Vertical-Shelf Recessed Mounting - Neon Strip Slight Series



 Part No.:
 GLRES-0610 (with black trim)
 Power:
 6W [1.83W/ft.]

 CRI:
 Ra > 90
 PCB Width:
 5mm [0.2in.]

 Unit QTY:
 1LED SMD2835 (Whtie)
 Unit QTY:
 /

 Increment:
 Free-cutting to be any length
 Increment:
 /

 LED Density:
 120LED/M [36LED/ft.]
 LED Density:
 /

 Brightness:
 120Im/M [37Im/ft.]
 Brightness:
 /

Installation Method: Recessed into groove

Appearance Color (Surface Treatment): Standard - Milky

Switch Mode (optional):

PIR/ Single Door Contact / Double Doors Contact / Hand Scanning Inductive / Touch Dimming / Wireless

Driver (optional):

Self-developed 20/30/48/60/72/100W power supply, or other types of power supply.

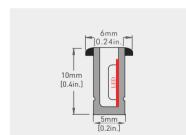
Standard Length:

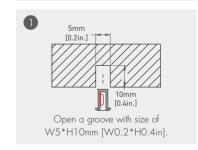
Customized length is available, and the Max. length is 3000mm[118in.].

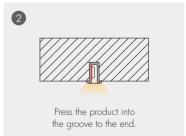
Note 1: Luminous flux for CCT 2700K is 10% lower, for CCT 3000K/3500K is 5% lower, for CCT 5000K/6500K is the same, compared with 4000K.

Note 2: Customized color needs to be evaluated additionally, please contact us for details.

Installation Diagram









Handle-Free Cabinet Lighting - Horizontal Plate Linear Light

Downward Emitting



Part No.: GLRES-2118

CRI: Ra>90

Unit QTY: 1LED SMD2216 (White)

Increment: 5.59mm [0.23in.] LED Density: 168LED/M [51LED/ft.]

Brightness: 200lm/M [61lm/ft.]

Power: 8W [2.44W/ft.]

PCB Width: 5mm [0.2in.]

Unit QTY: 6LED SMD2216 (CCT) Increment: 17.9mm [0.7in.]

LED Density: 168*2LED/M [51*2LED/ft.] Brightness: 200lm/M [61lm/ft.]

Installation Method: Embeded into wooden shelf

Appearance Color (Surface Treatment):

Standard - iron grey (sand blasting) & brassy (brushing)

Switch Mode (optional):

PIR/ Hand Scanning Inductive / Touch Dimming / Wireless

Driver (optional):

Self-developed 20/30/48/60/72/100W power supply, or other types of power supply.

Standard Length:

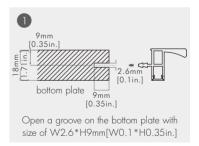
Maximum shipping length is 3000mm [11 8in.] for the aluminum profile and cover. Customized sizes within the maximum length are also acceptable.

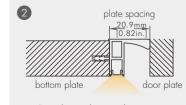
Note 1: Luminous flux for CCT 2700K is 10% lower, for CCT 3000K/3500K is 5% lower, for CCT 5000K/6500K is the same, compared with 4000K.

Note 2: Customized color needs to be evaluated additionally, please contact us for details.

Installation Diagram







Press the product into the groove of bottom shelf to the end.

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Handle-Free Cabinet Lighting - Floor Plate Linear Light



Part No.: GLRES-2560 Power: 8W [2.44W/ft.] PCB Width: 5mm [0.2in.] CRI: Ra>90

Unit QTY: 1LED SMD2216 (White) Unit QTY: 6LED SMD2216 (CCT) Increment: 5.59mm [0.23in.] Increment: 17.9mm [0.7in.]

LED Density: 168LED/M [51LED/ft.] LED Density: 168*2LED/M [51*2LED/ft.] Brightness: 72lm/M [22lm/ft.] Brightness: 72lm/M [22lm/ft.]

Installation Method: Fixed by installation accessory

Appearance Color (Surface Treatment):

Standard - iron grey (sand blasting) & brassy (brushing)

Switch Mode (optional):

PIR/ Wireless

Driver (optional):

Self-developed 20/30/48/60/72/100W power supply, or other types of power supply.

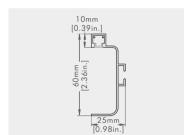
Standard Length:

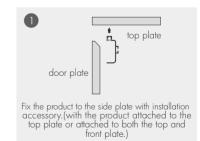
Maximum shipping length is 3000mm [11 8in.] for the aluminum profile and cover. Customized sizes within the maximum length are also acceptable.

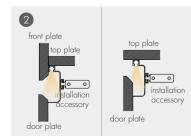
Note 1: Luminous flux for CCT 2700K is 10% lower, for CCT 3000K/3500K is 5% lower, for CCT 5000K/6500K is the same, compared with 4000K.

Note 2: Customized color needs to be evaluated additionally, please contact us for details.

Installation Diagram









Handle-Free Cabinet Lighting - Single-Door Vertical Plate Linear Light



Part No.: GLRES-4848

CRI: Ra>90

Unit QTY: 1LED SMD2216 (White)

Increment: 5.59mm [0.23in.]

LED Density: 168LED/M [51LED/ft.]

Brightness: 80lm/M [24lm/ft.]

Power: 8W [2.44W/ft.]

PCB Width: 5mm [0.2in.]

Unit QTY: 6LED SMD2216 (CCT)
Increment: 17.9mm [0.7in.]

LED Density: 168*2LED/M [51*2LED/ft.]
Brightness: 80lm/M [24lm/ft.]

Installation Method: Recessed mounting by screw

Appearance Color (Surface Treatment):

Standard - iron grey (sand blasting) & brassy (brushing)

Switch Mode (optional):

PIR/ Wireless

Driver (optional):

Self-developed 20/30/48/60/72/100W power supply, or other types of power supply.

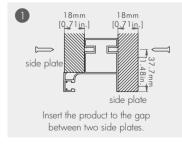
Standard Length:

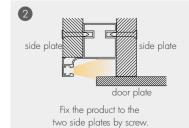
Maximum shipping length is 3000mm [11 8in.] for the aluminum profile and cover. Customized sizes within the maximum length are also acceptable.

Note 1: Luminous flux for CCT 2700K is 10% lower, for CCT 3000K/3500K is 5% lower, for CCT 5000K/6500K is the same, compared with 4000K.

Note 2: Customized color needs to be evaluated additionally, please contact us for details.









Handle-Free Cabinet Lighting - Double-Door Vertical Plate Linear Light



Part No.: GLRES-4767 | Power: 8W [2.44W/ft.]

CRI: Ra>90 PCB Width: 5mm [0.2in.]

 Unit QTY:
 1LED SMD2216 (White)
 Unit QTY:
 6LED SMD2216 (CCT)

 Increment:
 5.59mm [0.23in.]
 Increment:
 17.9mm [0.7in.]

 LED Density:
 168LED/M [51LED/ft.]
 LED Density:
 168*2LED/M [51*2LED/ft.]

 Brightness:
 72Im/M [22Im/ft.]
 Brightness:
 72Im/M [22Im/ft.]

Installation Method: Recessed mounting by screw

Appearance Color (Surface Treatment):

Standard - iron grey (sand blasting) & brassy (brushing)

Switch Mode (optional):

PIR/ Wireless

Driver (optional):

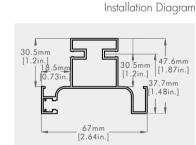
Self-developed 20/30/48/60/72/100W power supply, or other types of power supply.

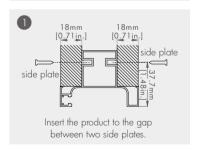
Standard Lenat

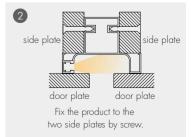
Maximum shipping length is 3000mm [11 8in.] for the aluminum profile and cover. Customized sizes within the maximum length are also acceptable.

Note 1: Luminous flux for CCT 2700K is 10% lower, for CCT 3000K/3500K is 5% lower, for CCT 5000K/6500K is the same, compared with 4000K.

Note 2: Customized color needs to be evaluated additionally, please contact us for details.







DRAWER LIGHTING



Drawer Lighting

IR Door Contact

Product Feature Dot-free linear performance, strong and easy installation by bracket, built-in door contact sensor. Outward emitting light, Ideal for drawer.



Appearance Color (Surface Treatment): Standard - matte silver (polishing)

Switch Mode (optional):

Doors Contact

Driver (optional):

Self-developed 20/30/48/60/72/100W power supply, or other types of power supply.

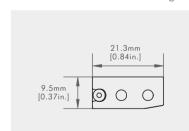
Standard Length:

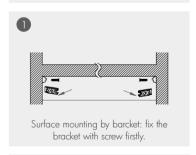
Maximum shipping length is 3000mm [11 8in.] for the aluminum profile and cover. Customized sizes within the maximum length are also acceptable.

Note 1: Luminous flux for CCT 2700K is 10% lower, for CCT 3000K/3500K is 5% lower, for CCT 5000K/6500K is the same, compared with 4000K.

Note 2: Customized color needs to be evaluated additionally, please contact us for details.

Installation Diagram







DRAWER LIGHTING



Drawer Lighting





Appearance Color (Surface Treatment): Standard - matte silver (polishing)

Switch Mode (optional):

Doors Contact

Driver (optional):

Self-developed 20/30/48/60/72/100W power supply, or other types of power supply.

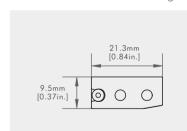
Standard Length:

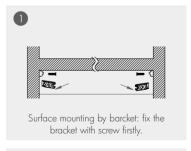
Maximum shipping length is 3000mm [11 8in.] for the aluminum profile and cover. Customized sizes within the maximum length are also acceptable.

Note 1: Luminous flux for CCT 2700K is 10% lower, for CCT 3000K/3500K is 5% lower, for CCT 5000K/6500K is the same, compared with 4000K.

Note 2: Customized color needs to be evaluated additionally, please contact us for details.

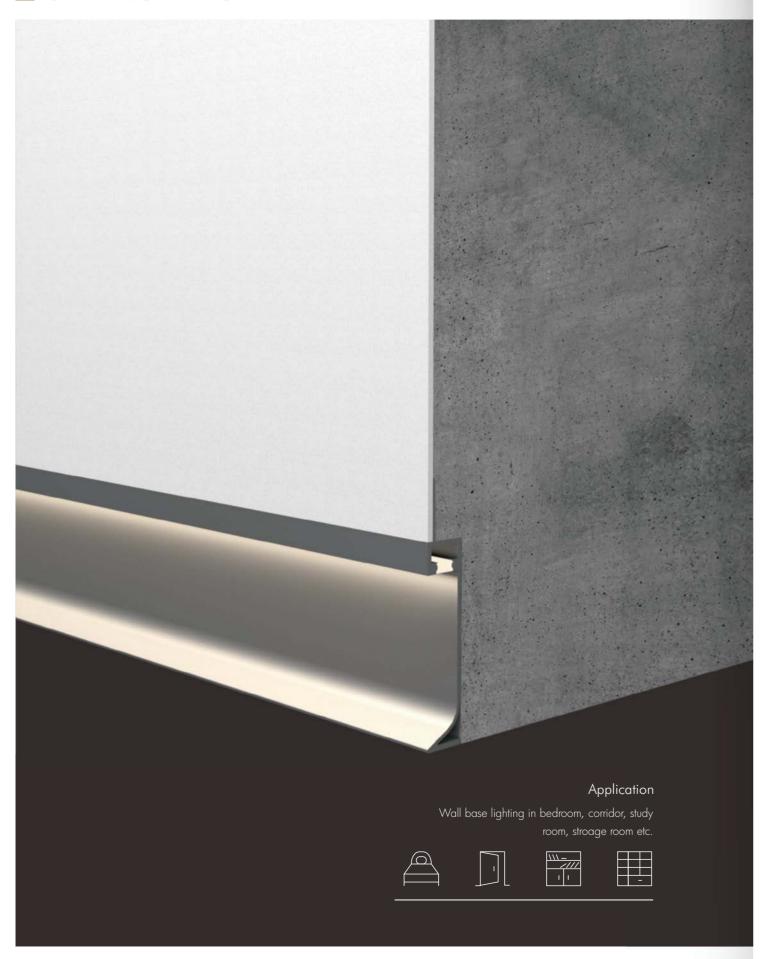
Installation Diagram







SKIRT LIGHTING



Skirt Lighting

Diffuse Reflection Emitting



Part No.: GLRES-1378

CRI: Ra>90

Unit QTY: 1LED SMD2216 (White)

Increment: 5.59mm [0.23in.]

LED Density: 168LED/M [51LED/ft.] Brightness: 80lm/M [24lm/ft.]

Power: 8W [2.44W/ft.]

PCB Width: 5mm [0.2in.]

Unit QTY: 6LED SMD2216 (CCT)

Increment: 17.9mm [0.7in.]

LED Density: 168*2LED/M [51*2LED/ft.]

Brightness: 80lm/M [24lm/ft.]

Installation Method: Recessed mounting by adhesive

Appearance Color (Surface Treatment): Standard-iron grey (sand blasting)

Switch Mode (optional): PIR/ Wireless

Driver (optional):

Self-developed 20/30/48/60/72/100W power supply, or other types of power supply.

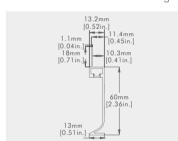
Standard Length:

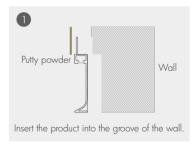
Maximum shipping length is 3000 mm [11 8in.] for the aluminum profile and cover. Customized sizes within the maximum length are also acceptable.

Note 1: Luminous flux for CCT 2700K is 10% lower, for CCT 3000K/3500K is 5% lower, for CCT $5000\mbox{K}/6500\mbox{K}$ is the same, compared with $4000\mbox{K}.$

Note 2: Customized color needs to be evaluated additionally, please contact us for details.

Installation Diagram

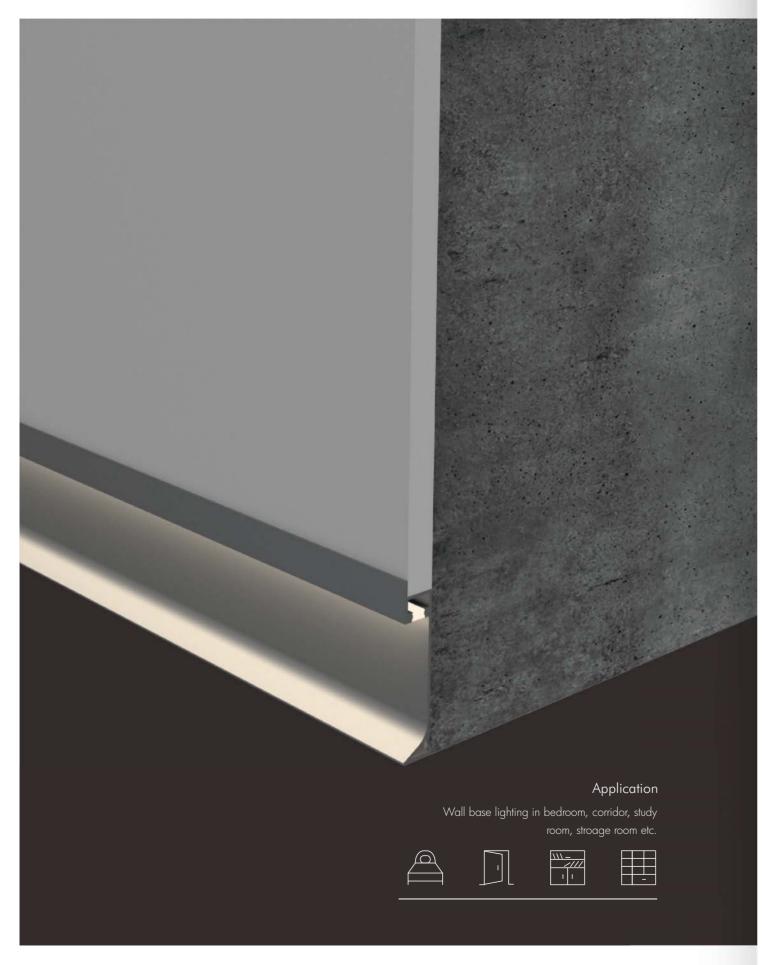






Pour and fix the product with putty powder.

SKIRT LIGHTING



Skirt Lighting

Diffuse Reflection Emitting



Part No.: GLRES-1365

CRI: Ra>90

Unit QTY: 1LED SMD2216 (White)

Increment: 5.59mm [0.23in.]

LED Density: 168LED/M [51LED/ft.]

Brightness: 80lm/M [24lm/ft.]

Power: 8W [2.44W/ft.]

PCB Width: 5mm [0.2in.]

Unit QTY: 6LED SMD2216 (CCT) Increment: 17.9mm [0.7in.]

LED Density: 168*2LED/M [51*2LED/ft.] Brightness: 80lm/M [24lm/ft.]

Installation Method: Recessed mounting by nail

Appearance Color (Surface Treatment): Standard-iron grey (sand blasting)

Switch Mode (optional): PIR/ Wireless

Driver (optional):

Self-developed 20/30/48/60/72/100W power supply, or other types of power supply.

Standard Length:

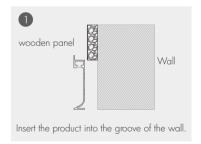
Maximum shipping length is 3000 mm [11 8in.] for the aluminum profile and cover. Customized sizes within the maximum length are also acceptable.

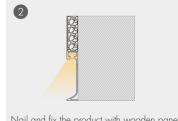
Note 1: Luminous flux for CCT 2700K is 10% lower, for CCT 3000K/3500K is 5% lower, for CCT $5000\mbox{K}/6500\mbox{K}$ is the same, compared with $4000\mbox{K}.$

Note 2: Customized color needs to be evaluated additionally, please contact us for details.

Installation Diagram







Nail and fix the product with wooden panel.

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SKIRT LIGHTING



Skirt Lighting

Diffuse Reflection Emitting

Product Feature Well integrated with wall base, downward illumination, soft lighting performance with diffuse reflection emitting.

3000K 3500K 2000K CCT 2700K -3M 120° 2216 5 YI

 Part No.:
 GLRES-1060
 Powe

 CRI:
 Ra>90
 PCB Width

Unit QTY: 1LED SMD2216 (White) Unit
Increment: 5.59mm [0.23in.] Incre

LED Density: 168LED/M [51LED/ft.]
Brightness: 80lm/M [24lm/ft.]

PCB Width: 5mm [0.2in.]

Unit QTY: 6LED SMD2216 (CCT)
Increment: 17.9mm [0.7in.]

LED Density: 168*2LED/M [51*2LED/ft.]

Brightness: 80Im/M [24Im/ft.]

Installation Method: Recessed mounting by adhesive

Appearance Color (Surface Treatment): Standard-iron grey (sand blasting)

Switch Mode (optional): PIR/ Wireless

Driver (optional):

Self-developed 20/30/48/60/72/100W power supply, or other types of power supply.

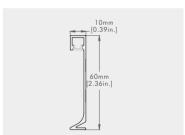
Standard Length:

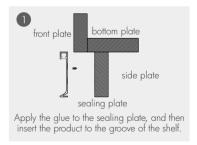
Maximum shipping length is 3000mm [11 8in.] for the aluminum profile and cover. Customized sizes within the maximum length are also acceptable.

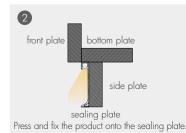
Note 1: Luminous flux for CCT 2700K is 10% lower, for CCT 3000K/3500K is 5% lower, for CCT 5000K/6500K is the same, compared with 4000K.

Note 2: Customized color needs to be evaluated additionally, please contact us for details.

Installation Diagram







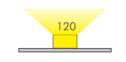
LED STRIP LIGHT SOURCE

LED Flexible Strip

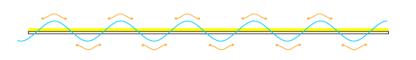
Style	Diagram	Width	LED Type	LED QTY	Voltage	Power	Brightness@ 4000K&IP20	Light Energy Efficacy Efficiency Clo	cRI CRI	CCT	IP Rating	Increment	Shipping Length
White (Short Cutting)		5mm [0.2in.]	2216	168LEDs/M [51LEDs/ft.]	24V	8W/M [2.44W/ft.]	640lm/M [195lm/ft.]	80lm/W G	>90	3000K 3500K 4000K	P20	5.59mm [0.23in.]	5000mm [197in.]
White (Short Cutting)		6mm [0.24in.]	2216	168LEDs/M [51LEDs/ft.]	24V	6W/M [1.83W/ft.]	480lm/M [146lm/ft.]	80lm/W G	>90	3000K 3500K 4000K	\$\frac{1}{2}\$ IP20	5.59mm [0.23in.]	5000mm [197in.]
CCT	\$ 00 00 \$ 00 00 \$	5mm [0.2in.]	2216	168LEDs*2/M [51LEDs*2/ft.]	24V	4W*2/M [1.22W*2/ft.]	640lm/M [195lm/ft.]	80lm/W G	>90	2700K 6000K	P20	17.9mm [0.7in.]	5000mm [197in.]











Wide Beam Angle

Min.Bending Radius

Top Bend Only

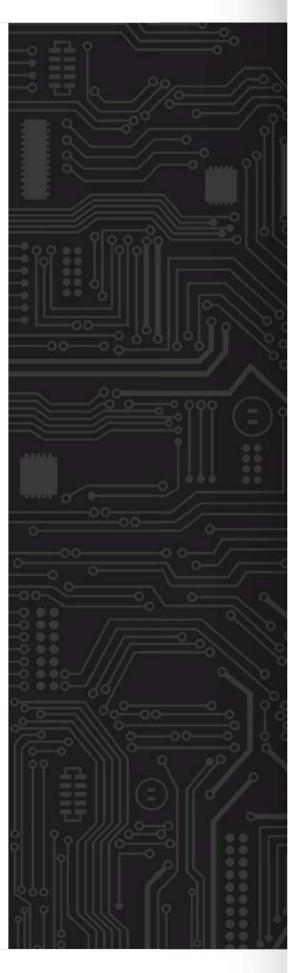
POWER SUPPLY





POWER SUPPLY





Power Supply

Product Feature

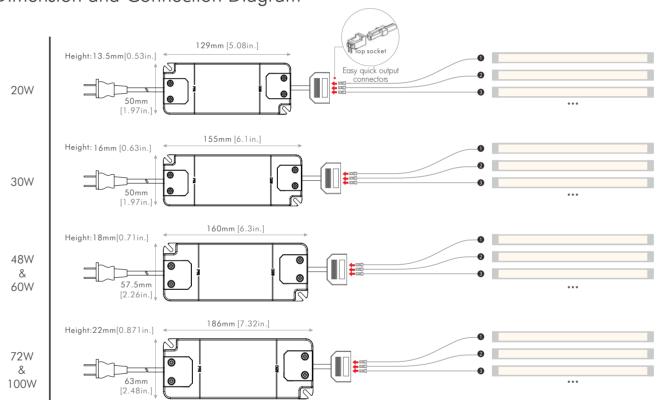
Slime and compact size design Flick free with high PF

Compliance to EU directive and New ERP request

Open circuit short, overload and over temperature protection function Ideal for the limited space lighting applications in cabinet, furniture etc.



Dimension and Connection Diagram

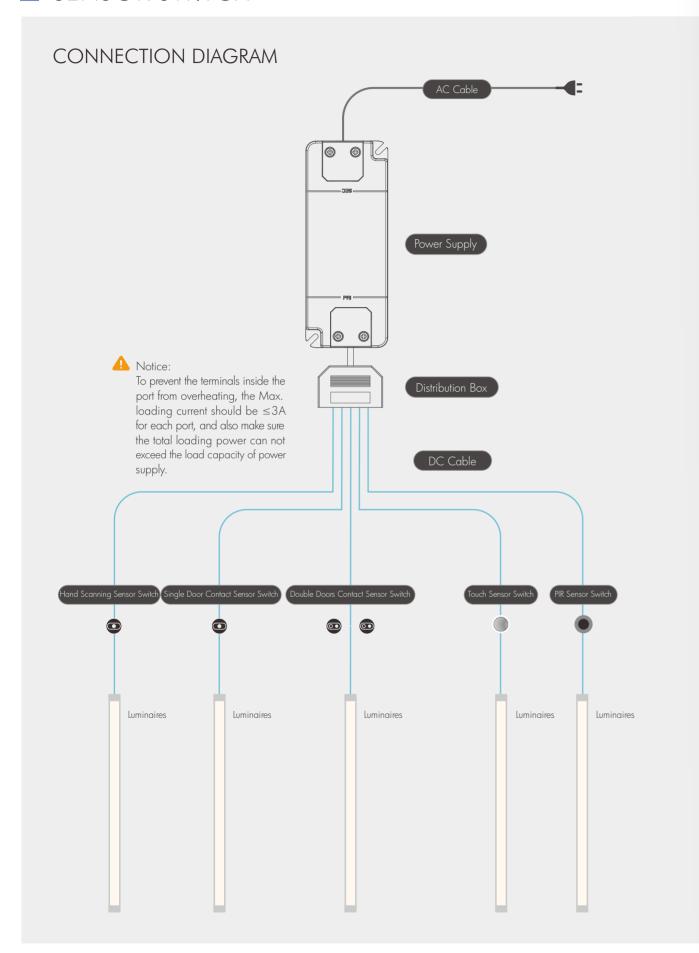


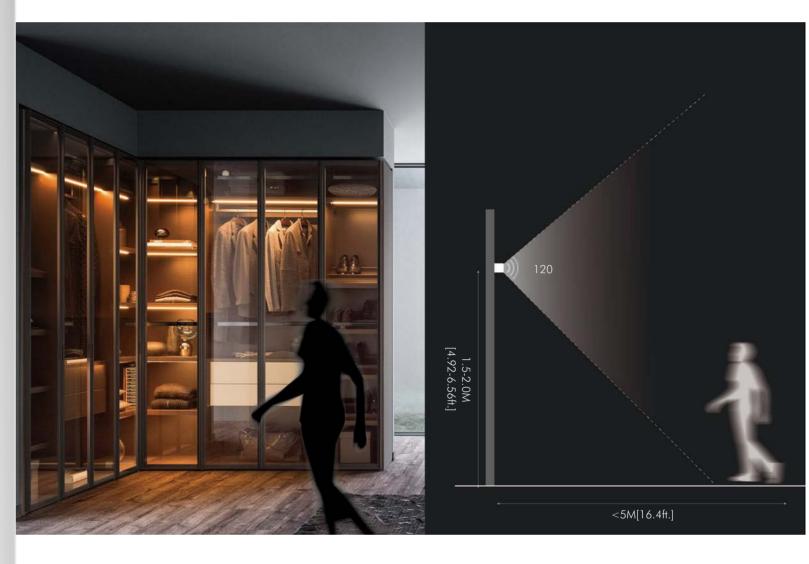
Parameter

Part No.	Dimension	Power	Input Voltage	Output Voltage/Current	Certification
BK-PGV020-24V0	129x50x13.5mm [5.08x1.97x0.53in.]	Max. 20W	220-240VAC	DC24V-0.83A	
BK-PGV030-24V0	155x50x16mm [6.1x1.97x0.63in.]	Max. 30W	220-240VAC	DC24V-1.25A	
BK-PGV048-24V0	160x57.5x18mm [6.3x2.26x0.71in.]	Max. 48W	220-240VAC	DC24V-2A	CE, UKCA, RoHS
BK-PGV060-24V0	160x57.5x18mm [6.3x2.26x0.71in.]	Max. 60W	220-240VAC	DC24V-2.5A	CL, UNCA, KOI IS
BK-PGV072-24V0	186x63x22mm [7.32x2.48x0.87in.]	Max. 72W	220-240VAC	DC24V-3A	
BK-PGV100-24V0	186x63x22mm [7.32x2.48x0.87in.]	Max. 100W	220-240VAC	DC24V-4.2A	

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SENSOR SWITCH



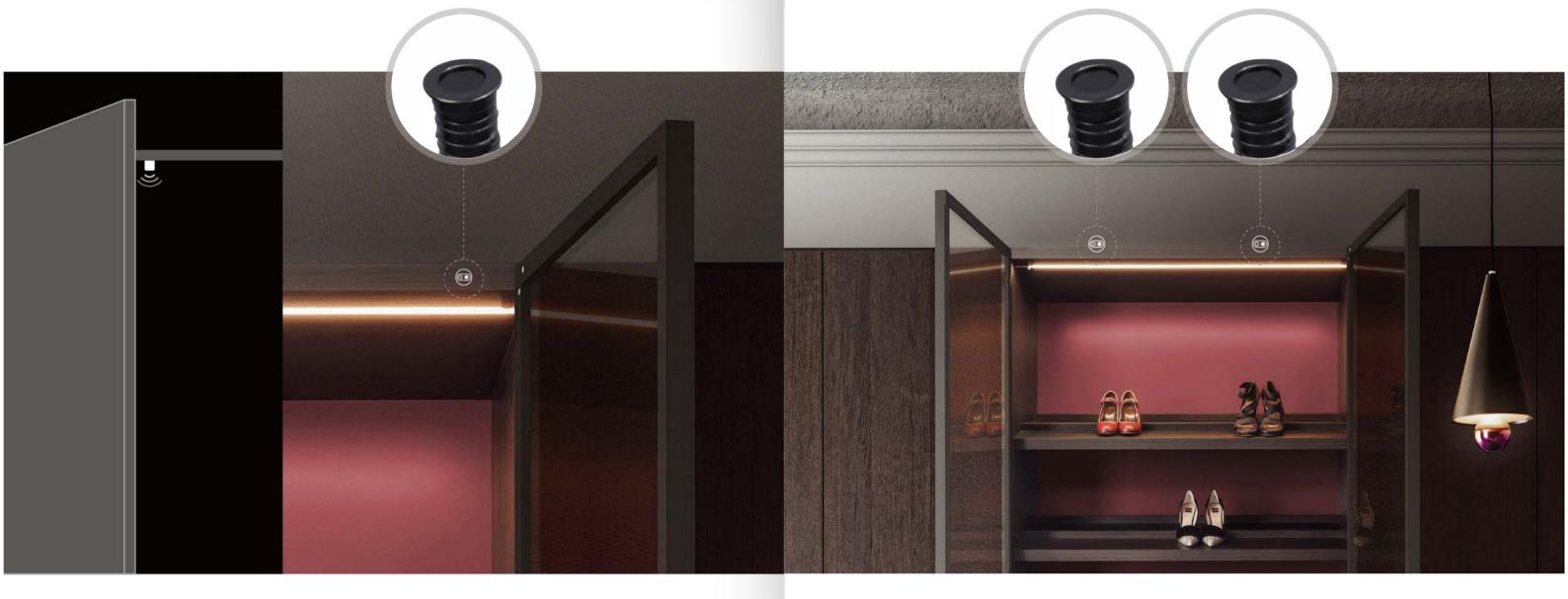


PIR Sensor Switch-Surface or Flush Mounting



Part No.	Hole Size			Feature
ran No.	Hole Size	Rated Voltage	Rated Current	Others
GLRES-B1203B-PIR (postpositioned)	Ф14хH15mm [Ф0.6хH0.59in.]	DC12-24V	3A	Delay time in 35 seconds, gradually brighten and fade.
			<u></u>	Detecting scope is a cone with distance ≤5M[16.4ft.] and angle in 120°.
Sensor				1.2M[3.94ft.] length of UL2468 AWG 22 black cable with input plug L813 and output plug L815.

SENSOR SWITCH







Part No.	Hole Size	Feature					
ran ino.	Hole Size	Rated Voltage	Rated Current	Others			
Single Door GLRES-B1203B-M1 (postpositioned)	Ф8хН12mm [Ф0.31хН0.47in.]	DC12-24V	3A	Gradually brighten and fade.			
		Se	nsor	1.2M[3.94ft.] length of UL2468 AWG 22 black cable with input plug L813 and output plug L815.			

Door Contact Sensor Switch (Dual Doors)-Surface or Flush Mounting

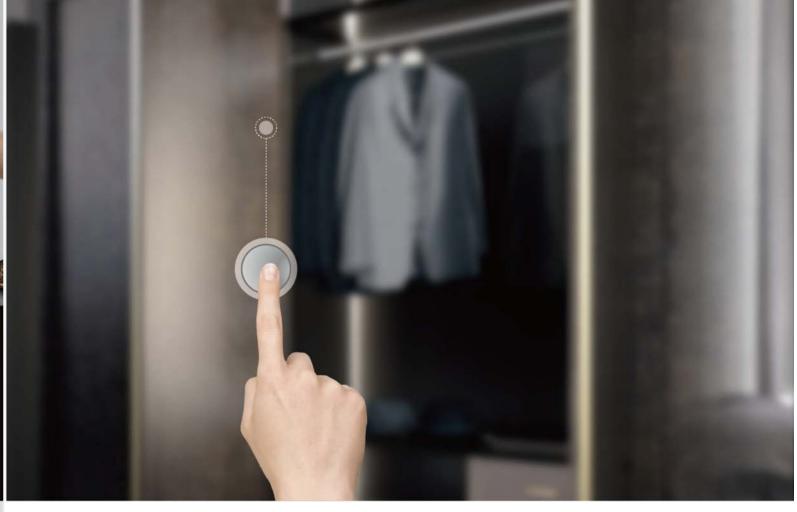


David NI a	Hole Size	Feature					
Part No.	Hole Size	Rated Voltage	Rated Current	Others			
Dual Doors GLRES-B1203B-M2 (postpositioned)	Ф8хH12mm [Ф0.31хH0.47in.]	DC12-24V	3A	Detecting scope is a cone with distance in 30-80mm[1.18-3.15in.] and angle in 30°.			
	>	Se	nsor	1.2M[3.94ft.] length of UL2468 AWG 22 black cable with input plug L813 and output plug L815.			

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SENSOR SWITCH





Hand Scanning Sensor Switch-Surface or Flush Mounting



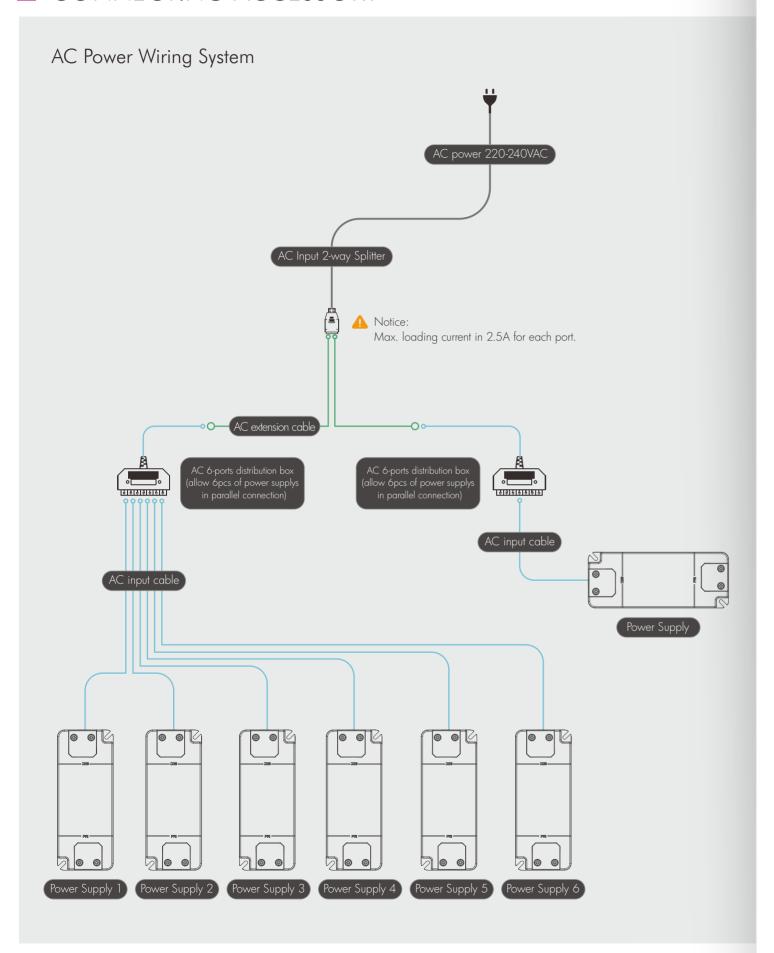
D. INI	11.1.0			Feature
Part No.	Hole Size	Rated Voltage	Rated Current	Others
GLRES-B1203B-IR (postpositioned)	Ф8хH12mm [Ф0.31хH0.47in.]	DC12-24V	3A	Gradually brighten and fade.
			<u></u>	Detecting scope is a cone with distance in 30-80mm[1.18-3.15in.] and angle in 30°.
	⊗	Se	nsor	1.2M[3.94ft.] length of UL2468 AWG 22 black cable with input plug L813 and output plug L815.

Touch Sensor Switch (Dimmable)-Surface Mounting



Part No.	Hole Size		Feature				
Part INO.	Hole Size	Rated Voltage	Rated Current	Others			
GLRES-B1203B-T1 (postpositioned)	Ф17хH12mm [Ф0.67хH0.47in.]	DC12-24V	3A	With memory function, or/off by short touch, dimming by long touch, gradually brighten and fade.			
			nsor	5%-100% dimming			
	3	Se		1.2M[3.94t] length of UL2468 AWG 22 black cable with input plug L813 and output plug L815.			

CONNECTING ACCESSORY



AC Power Cable



D. J.N.	lanath	Feature				
Part No.	Length	Rated Voltage	Rated Current	Others		
GLRES-B220010A2	L:1.5m [L:59.06in.]	100-240V	5A	Black PVC cable in 2*0.75mm².		
				One end with European type of AC plug, another end with horoscopes-tail male plug.		
				/		

AC 2-way Splitter



Part No.	Length	Feature					
Pari No.	Lengin	Rated Voltage	Rated Current	Others			
GLRES-B220010A2	L:1.5m [L:59.06in.]	100-240VAC	2.5Ax2	Black PVC cable in 2*0.75mm².			
				One end with European type of AC plug, another end with 2-way splitter.			
				/			

AC 6-ports Distribution Box



Part No.	Length	Feature					
ran ino.	Lengin	Rated Voltage	Rated Current	Others			
GLRES-B220025B1	L:1.5m [L:59.06in.]	100-240VAC	2.5A	Black PVC cable in 2*0.75mm².			
				One end with 6-port distribution box, another end with circular male plug.			
				/			

AC Input Cable



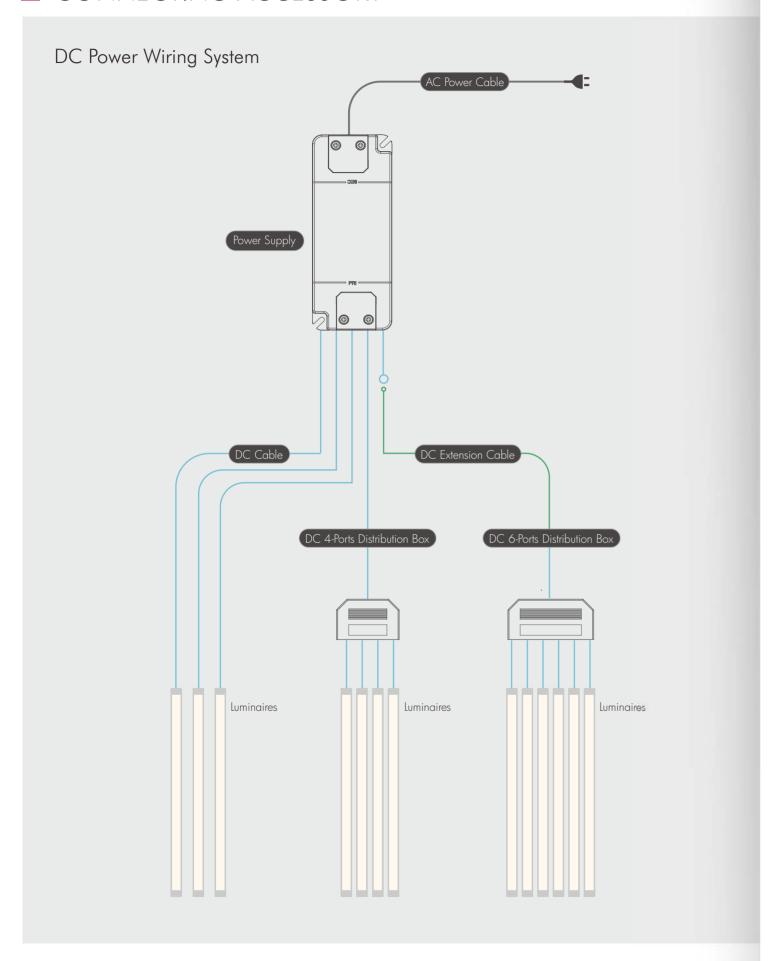
D. J.N.	Length	Feature					
Part No.	Lengin	Rated Voltage	Rated Current	Others			
GLRES-B220025D1	2.0m [78.74in.]	100-240VAC	2.5A	Black PVC cable in 2*0.75mm².			
				One end with horoscopes-tail male plug, another end with circular male plug.			
				/			

AC Extension Cable



D N.	Length	Feature					
Part No.	Lengin	Rated Voltage	Rated Current	Others			
GLRES-B220025C1	2.0m [78.74ft.]	100-240VAC	2.5A	Black PVC cable in 2*0.75mm².			
				One end with circular female plug, another end with circular male plug.			
				/			

CONNECTING ACCESSORY



DC 6-Ports Distribution Box



Dt NI.	Size	Feature		
Part No.		Rated Voltage	Rated Current	Others
GLRES-B12030B1	59x38x10.5mm [2.32x1.5x0.41in.]	DC12-24V	3A	0.5M[1.64ft.] length of UL2468 AWG22 black cable with input plug L813
				/
				/

DC 4-Ports Distribution Box



D. J.N.	Size	Feature		
Part No.		Rated Voltage	Rated Current	Others
GLRES-B12030C1	42x38x10.5mm [1.65x1.5x0.41in.]	DC12-24V	3A	0.5M[1.64ft.] length of UL2468 AWG22 black cable with input plug L813
				/
				/

DC Extension Cable



D. a.N.	lanath	Feature			
Part No.	Length	Rated Voltage	Rated Current	Others	
GLRES-T12030A1	L:2M [L:78.74in.]	DC12-24V	3A	2M[6.56ft.] length of UL2468 AWG22 transparent cable with input plug L813 and output plug L815	
				/	
				/	

Installation Kit



Semicircle Wire Fastener

Part No.: GLRES-T3011A

Color: Transparent

Dimension: L30*W11*H10mm [L1.2*W0.4*H0.4in.]



Rectangular Wire Fastener

Part No.: GLRES-B3713A

Color: B

Black

Dimension: L37*W13*H11mm [L1.5*W0.5*H0.4in.]



Surface Mounting Trunking

Part No.: GLRES-B1006A

Color: Black

Dimension: L(

L(optional)*W10*H6mm [L(optional]*W0.4*H0.2in.]

Contact details

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Tel: +852 2134 9906 +86 (0)769 23010151/2 M: +86 13922905402 Email: sales@iinno-lighting.com www.iinno-lighting.com











