Qty

Catalog / Part Number

LRO | Luci EFRO IP65 28.3mm

LRO | Luci EFRO IP65









Model No.

LR	0	-	-		-	DF	-	IW
Product	Name	Length	-	Light source color	-	Cover type	-	Environment
LR	0	0162		W : 4000K		DF : Diffuser		IW: IP65 (Indoor /
		0302		WW: 3500K				Semi-outdoor)
		0582		L30 : 3000K				
		0862		L27 : 2700K				
		1142		L24 : 2400K				

Specification @ Clear cover

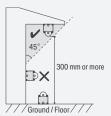
Power consumption			3.9W/m			
Weight (g)			40g			
Cuttable unit			62.4mm (6 LED)			
Luminaire efficacy (Im/W) @2700K			64.6 lm/W			
Light source color (Code)			Luminaire flux (lm/m)			
D	7100K	Ra 74	311 lm/m ^{AB}			
W	4200K	Ra 70	330 lm/m ^A			
WW	3500K	Ra 75	281 lm/m ^A			
L30	3000K	Ra 70	302 lm/m ^A			
L27	2700K	Ra 71	252 lm/m			
L24	2400K	Ra 65	245 lm/m ^{AB}			

 $^{^{\}rm A}$ = Equivalent $^{\rm B}$ = Please contact us since it is made-to-order products and has MOQ.

General Specification

Input voltage	DC24V
Environment	Bathroom, semi-outdoor, Moistureproof (IP65)*1
Max. length per circuit	4.5m
Material (body)	Polycarbonate, PVC cable, IP65 connector
Material (cover, clip)	Polycarbonate
Material (mounting rail)	Aluminum
Certification	CE, Complied with JIS0920, IP65
Operating temperature	$0^{\circ}\text{C} \sim +35^{\circ}\text{C}$ (No Condensation)
Dimmable	Yes (0-10V/1-10V, DMX, DALI, PWM, Casambi)

Prohibited installation places:

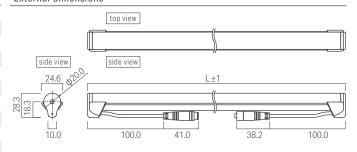


When using EFRO in semi-outdoor, it must be installed with the aluminum rail for EFRO. Please installed the LED fixture and the cable within the range of 45° eaves of the roof and 300 mm or $\,$ more away from the ground or the floor. Please do not install the LED fixture and cables in the follow place:

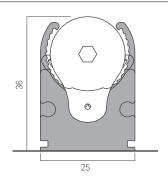
- direct expose to water or pooling of water
- direct sunlight
- liquids including chroline or chemicals
- high temperature and high humidity such as saunas and public
- coastal areas which are affected by sea spray

Do not cut the LED fixture and the lead wire of outdoor product at a job site. Please do appropriate treatment for the lead wire and connector of the terminal of outdoor LED fixture.

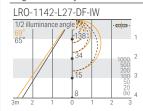
External dimensions



Cross sectional view with accessories



Light Intensity



Light source color Brightness Luminous flux Color rendering index





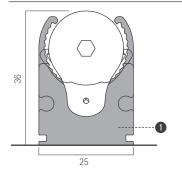
2700K

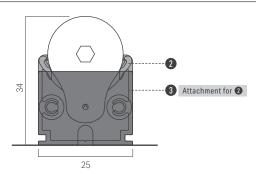
138 cd

697 lm

Ra 93







Accessories



1 Mounting clip for EFRO Attachment

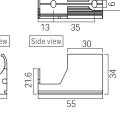
Model No: LRO-PT-A Attached with LED fixture 2 pcs for 582 mm or shorter

3 pcs for 862 mm or longer 5 pcs for 983mm to 1463mm

- Holding LED fixture at both ends
- Angle adjustable
 Connectors can be put under the LED fixture
- Material: Clear polycarbonate

For extra order, 3 pcs / bag



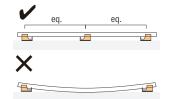


Top view

Cautions: Use accurate number of Mounting parts

Install 3pcs of Mounting clips at the middle and both edge sides of LED fixture if the LED fixture is longer than 862mm. Otherwise, the LED fixture will bow by its weight and may defect.

- Number of Mounting clips (LRO-PT-A) 2 pcs for 582 mm or shorter 3 pcs for 862 mm or longer





Cable holding

2 Aluminum mounting rail for EFRO ****

Model No: LRO-RL****-AL

****: Length (0164/0304/0584/0864/1144)

- 3 End cap for aluminum rail (2 pcs/bag) is included.
- For easy and quick installation: unnecessary to pre-align the clips
- Connectors can be put under LED fixture
- Material

Holding fixture when vertical installation

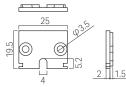
- Rail: Aluminum, End cap: Semi-clear polycarbonate
- Delivered with the same length as the product (Length variation: 164mm, 304mm, 584mm, 864mm, 1144mm)

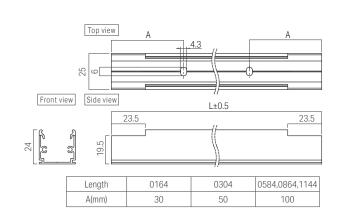


3 End cap for aluminum rail Attachment for 2

Model No : LRO-RL-EC

Screws (4 pcs of Flat head, M3L8) are included







Power supply cable 5M for AH1 connector OD3.5 Required

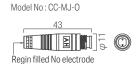
Model No: CAD-VA5000-FJNN-O

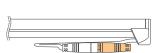
- 6 Connector cover for AH1 connector (1 pc/bag) is included
- Required for each circuit of LED fixture
- One side connector, one side bare wire - 1 pcs of connector end cap (CC-MJ-O) is attached

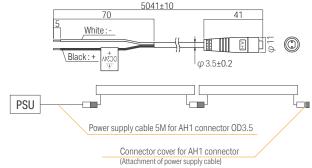
5 End cap for power supply cable Attachment for 4

* to avoid water intrusion from the terminal connector of LED fixture









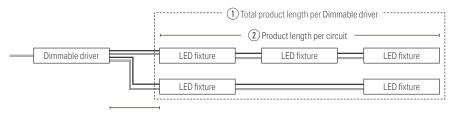
Cautions: Waterproofing process for terminal connector

The unenclosed connector at the terminal of LED fixture must be sealed with connector cover for AH1 connector which is attached with power supply cable (CAD-VA5000-FJNN-O). Make sure to rotate the fastening part until no longer can rotate.





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- 3 Cable length between Dimmable driver and the top of luminaire
- $\begin{tabular}{ll} \hline \textbf{(1)} & \textbf{Total product length per Dimmable driver depends on capacity of the Dimmable driver.} \\ & \textbf{Recommended loading factor is 70\% (without dimming) or 60\% (with dimming).} \\ \hline \end{tabular}$
- 2 Product length per circuit shall not exceed maximum product length per circuit. If the product length per circuit exceeds the maximum, split into mulitple circuits.
- (3) To minimize voltage drop, select appropriate wire gauge/diameter and consider the cable length between Dimmable driver and the top of luminaire referring to the following table. If longer cable distances are required, use thicker wires or reduce the loading of the LED fixtures in the circuit.

Dimmable driver					
Model No.	Size (mm) (L × W × H)				
PX0408	140 × 50 × 26				
DALI6010	168 × 39 × 30				
DIM-S1L10V-0	175 × 56 × 28				
PWM-200-24	195 × 68 × 39.5				
PWM-120-24	191 × 63 × 37.5				
PWM-90-24	171 ×63 × 37 5				

150 × 53 × 35

150 × 53 × 35

PWM-60-24

PWM-40-24

Model No.	Wattage (W/m)	2 Max. length per circuit (m)	3 Max. cable length between Dimmable driver and the top of luminaire at 2 Max. len			_		
		Crosssection Wiregauze	0.3sq AWG22		0.5sq AW G 20		0.75s	'
LRO-*-*-DF-IW	8.4 4.5	14.2*	10.7*	16.6*	10*	7.5*	5*	3.3
Model No.	Wattage Max. length per circuit (m)	① Connectable length per Dimmable driver *Split into multiple circuit						
		connectable up to 5A, when using 200W DC24V PSU as 60% load factor	connectable up to 3.75A, when using 150W DC24V PSU as 60% load factor	connect up to 140W as 70% load	connect up to 84W as 70% load	connect up to 63W as 70% load	connect up to 42W as 70% load	connect up to 28W as 70% load
		DIM-S1L10V-0 (10A × 1ch)	DIM-S1L10V-0 (10A × 1ch)					
Dimm	able driver	DALI6010 (10A × 1ch)	DALI6010 (10A × 1ch)					
		PX0408 (8A × 4ch)-Use 1ch only	PX0408 (8A × 4ch)-Use 1ch only	PWM-200-24	PWM-120-24	PWM-90-24	PWM-60-24	PWM-40-24

