

# EPS.LIGHT

**Technical Information**  
Illumination with LED modules  
2-2025

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## Description LED modules

### LUCOLED BL72

- 5 years warranty
- First 2 years extended warranty
- Lucolense wide beam technology
- High efficacy
- Constant Current Technology
- Narrow white binning



Lucoled Plus BL72 modules offer a high quality and efficient backlit solution for lightboxes with a depth of 120-300 mm.

Using the latest Top-Tier LED technology and high quality patented optics Lucoled Plus BL72 offers industry leading efficacy and coverage. This not only reduces the amount of modules needed for an application, but also the overall power consumption.

In a typical application of 160 mm deep only 4 modules per square meter are used at maximum wire spacing, making installation very fast and less labour-intensive. By using only 28 W per square meter the number of power supplies needed is also strongly reduced.

### LUCOLED PV 44

- 5 years warranty
- First 2 years extended warranty
- Lucolense prismatic angle technology
- Highest efficacy
- Constant Current Technology
- Narrow white binning



Lucoled Premium Value PV44 modules offer a high quality and efficient backlit solution for lightboxes and channel letters between 80 and 140mm deep.

Using the latest high efficient LED technology and high quality optics Lucoled Premium Value series offers industry leading efficacy and coverage. This not only reduces the amount of modules needed for an application, but also the overall power consumption, reducing the total cost of ownership of a project.

Lucoled Premium Value series offers a 2 years extended warranty, making it the optimum choice for your high valued projects and critical installations. Your warranty exposure is reduced to a minimum.

## Notes warranty LED modules

For the first 24 months LUCOLED can offer an extended warranty.

Under the extended warranty LUCOLED will reimburse client onsite labour, travel costs and other direct costs required to perform repair or replacement on LUCOLED products. Warranty starts from the date of delivery of the LUCOLED products.

Client needs to submit detailed records, including date of purchase, installation date, location, power supply serial numbers, module batch codes and proof of first flawless operation.

The following conditions apply:

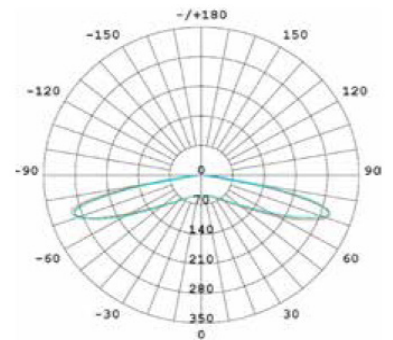
- Product has been installed in accordance with local regulations and LUCOLED installation instructions by LUCOLED trained and certified installers.
- Product is being used for its intended use.
- Defective product needs to be returned to LUCOLED for analysis.
- Pictures of the defective product in installation need to be submitted as part of the claim.
- Prior to any repair LUCOLED becomes financially responsible for, LUCOLED reserves the right to verify that the defect was a result of defective material supplied by LUCOLED and not the result of installation workmanship, acts of God, misuse, abuse or any other reason that is not within the direct control or the responsibility of LUCOLED.
- Prior to any repair LUCOLED becomes financially responsible for, an estimate of repair costs needs to be approved by LUCOLED. LUCOLED reserves the right to engage third parties to carry out the repair. Client agrees to fully cooperate with third parties.
- All labour, travel, equipment costs must be passed on without markup or profit. Original invoices of rental equipment, lodging, etc. need to be submitted as part of the claim.
- The extended warranty is a system warranty and only valid if only LUCOLED components and approved accessories are used. Replacement of LUCOLED components with third party components, i.e. power supplies, will void the extended system warranty.

## Technical specifications BL72

### Use for profile depth 180mm (EPS.LUMI and EPS.RAIL)

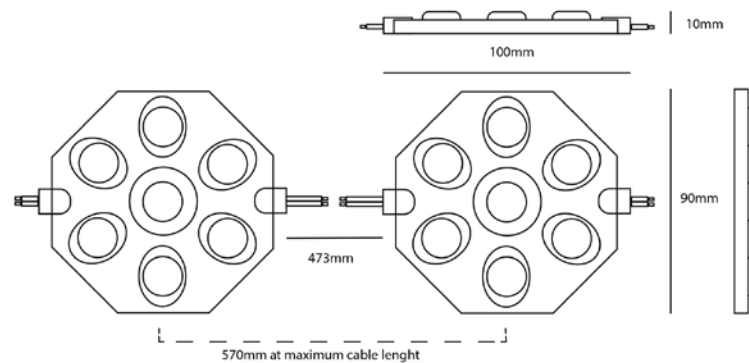
- Dimensions 100x90x10mm
- Warranty 5 years (first 2 years extended)
- Beam angle: 1600
- Can be cut between every unit
- UL, CE and RoHS compliant
- Narrow white binning
- Constant Current Technology
- Operating temperature -25~+60C

Luminous intensity distribution

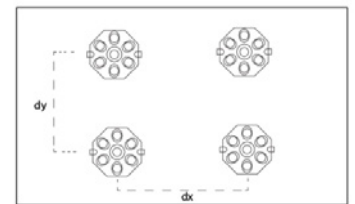


Item no.	LED colour	CT (K)	CRI	Power (W/Mod)	Flux (lm/Mod)	Efficacy (lm/W)	Voltage (DC)	Modules per chain
BL72-W65	white	6500	>70	7.0	1035	148	24	10

### Dimensions



Lightbox depth (mm)	Space between modules (mm)	Installing density (pcs/m <sup>2</sup> )	Surface luminance range (cd/m <sup>2</sup> )
dz=120	dx=300, dy=300	9	1250-1350
dz=150	dx=450, dy=400	6	850-950
dz=180	dx=500, dy=500	4	450-550
dz=180	dx=450, dy=400	6	700-800
dz=180	dx=300, dy=300	9	1050-1150
dz=250	dx=500, dy=500	4	350-450



Results may vary depending on face material properties. The data above was obtained using 3mm thick opaque acrylic with a 54% light transmittance. Lucoled advises to paint the inside of the box/letters in a matt white colour for achieving an optimal result. Always test before production.

### Power supply capacity 24V series

Item	PP2430	PP2460	PPXS24100	PP24150	PP24200
Power Output	30W	60W	100W	150W	200W
BL72 modules / power supply	3	7	13	19	25
Number of chains (maximum 10 modules per chain)					

## Technical specifications power supplies

### Power supply 24V

- Output Voltage 24V
- Working temperature range -40°C~+65°C
- Input voltage range 100VAC~240VAC
- Input frequency range 50~60Hz
- Protective characteristics Over-Current, Short-Circuit, Over Voltage and Over-Temperature protection
- IP rating IP68
- MTBF ≥70000hrs. MIL-HDBK-217F (25°C)
- Warranty 7 Years, first 2 years extended

Code	Output current	Output power	Input current	Efficiency	Size (lxwxh)	Weight
PP2430	1.25A	30W	0.35A/115V - 0.19A/230V	≥84%	187x41x29mm	0,5kg
PP2460	2.5A	60W	0.65A/115V - 0.35A/230V	≥87%	184x44x34mm	0,52kg
PP24150	6.25A	150W	1.6A/115V - 0.8A/230V	≥93%	234x68x35mm	1kg
PP24200	8.34A	200W	2.8A max	≥90%	295x60x36mm	1,1kg

### Power supply 24V

- Output Voltage 24V
- Working temperature range -40°C~+55°C
- Input voltage range 100VAC~240VAC
- Input frequency range 50~60Hz
- Protective characteristics Over-Current, Short-Circuit, Over Voltage and Over-Temperature protection
- IP rating IP68
- MTBF 40000hrs. MIL-HDBK-217 (25°C)
- Warranty 7 Years, first 2 years extended

Code	Output current	Output power	Input current	Efficiency	Size (lxwxh)	Weight
VP2460	2.5A	60W	≤0.8A	≥84%	186x40x29mm	0,55kg
VP24100	4.17A	100W	≤1.22A	≥92%	163x68x37mm	0,69kg
VP24150	6.25A	150W	≤1.81A	≥93%	185x68x37mm	0,79kg
VP24240	10A	240W	≤2.93A	≥92%	251x68x37mm	0,98kg
VP24400	16.67A	400W	≤4.87A	≥93%	251x86x42mm	1,66kg



**Important:**

- *Lucoled recommends loading power supplies up to 90% of their maximum listed capacity.*
- *Select a power supply for your installation loaded at more than 50% of its maximum load to meet Power Factor regulations.*
- *Install with adequate ventilation and not in direct sunlight.*
- *Power supplies to be installed by trained and certified staff.*

## Notes warranty Power supplies

LUCOLED power supplies come with a 7 year carry-in warranty.

For the first 24 months LUCOLED can offer an extended warranty.

Under the extended warranty LUCOLED will reimburse client onsite labour, travel costs and other direct costs required to perform repair or replacement on LUCOLED products.

For the next 36 months LUCOLED can offer an extended labour assistance warranty. LUCOLED will reimburse client EUR 65,- as a contribution to labour cost per failed power supply, in addition to a replacement power supply.

Warranty starts from the date of delivery of the LUCOLED power supplies. Client needs to submit detailed records, including date of purchase, installation date, location, power supply serial numbers, module batch codes and proof of first flawless operation.

The following conditions apply:

- Product has been installed in accordance with local regulations and LUCOLED installation instructions by LUCOLED trained and certified installers.
- Product is being used for its intended use.
- Defective product needs to be returned to LUCOLED for analysis.
- Pictures of the defective product in installation need to be submitted as part of the claim.
- Prior to any repair LUCOLED becomes financially responsible for, LUCOLED reserves the right to verify that the defect was a result of defective material supplied by LUCOLED and not the result of installation workmanship, acts of God, misuse, abuse or any other reason that is not within the direct control or the responsibility of LUCOLED.
- The extended warranty is a system warranty and only valid if only LUCOLED components and approved accessories are used. Replacement of LUCOLED components with third party components, i.e. power supplies, will void the extended system warranty.

Profile	Dimension (mm)	Fabric	Translucence	Modules	Number of modules	Rows	Module s/ Row	Total Lumen	Cd./m <sup>2</sup>
EPS.LUMI Main body 120		Toplight	ca. 30%	PV44-W65	16	4	4	3584	ca. 277 cd
		SEEMEE (B1150/B3852)	ca. 17,52%/ 18,95%	PV44-W65	16	4	4	3584	ca. 360 cd

Profile	Dimension (mm)	Fabric	Translucence	Modules	Number of modules	Rows	Module s/ Row	Total Lumen	Cd./m <sup>2</sup>
EPS.LUMI Main body 150	1000 x 1000 x 150	Toplight	ca. 30%	PV44-W65	16	4	4	3584	ca. 294 cd

Profile	Dimension (mm)	Fabric	Translucence	Modules	Number of modules	Rows	Module s/ Row	Total Lumen	Cd./m <sup>2</sup>
EPS.LUMI Main body 180		Toplight	ca. 30%	BL 72	4	2	2	4140	ca. 311 cd
		SEEMEE (B1150/B3852)	ca. 17,52%/18,95%	BL 72	4	2	2	4140	ca. 311 cd



# EPS

## SYSTEMS

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