LED SIGNAGE SOLUTIONS

SANA METROPOLITAN HOTEL

LUCOLED

Experience Lighting

Q3 2021

LUCOLED

BACK LIGHTING

LUCOLED
Experience Lighting

LUCOLED: NOT JUST ANOTHER LED COMPANY

PAY FOR PERFORMANCE
At LucoLED we operate at the simple principle that the customer should only pay for product performance and not for the overhead and excessive margins most major brands add to their cost.
It is LucoLED's mission to provide fit for purpose, reliable and efficient lighting solutions for visual communication and brand identity.

EXPERIENCE
LucoLED is based on over 20 years of experience in the signage industry and has developed an in depth knowledge of the basic needs of the market. Backed by industry leading design and production facilities LucoLED provides high quality products with exceptional performance and warranties.
LucoLED's ODM production uses state of the art equipment and has extensive R&D facilities. Besides a range of standard products LucoLED can also offer tailor made solutions with minimum lead time.

COMPLETE SOLUTION
LucoLED offers a complete system solution for letters, light boxes, flexible and linear accents. Including their own full range power supplies. LucoLED offers a system warranty of up to 7 years and extended warranties of up to 2 years as we believe in our products.
Although LucoLED is a new name in the market, the management behind the company has a proven track record of quality and reliability.

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LUCOLED PR20

- *7 years warranty*
  First 2 years extended warranty
- *Prismatic Flat Beam technology*
- *Industry leading efficacy*
- *Constant Current Technology*
- *Narrow white binning*

Lucoled Premium PR20 modules offer a high quality and efficient backlit solution for lightboxes and channel letters between 40 and 200mm deep.

Using the latest Top-Tier LED technology and prismatic flat beam optics Lucoled Premium 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 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.

SPECIFICATIONS

- Dimensions 58x24x11mm
- Warranty 7 years (first 2 years extended)
- Beam angle: 160^0
- Can be cut between every unit
- UL, CE and RoHS compliant
- Narrow white binning
- Constant Current Technology
- Operating temperature -40~+60C

LUMINOUS INTENSITY DISTRIBUTION

UL	CE	RoHS	2 LEDS	Injection Molding Device	DC 12V	IP 67	7 Years
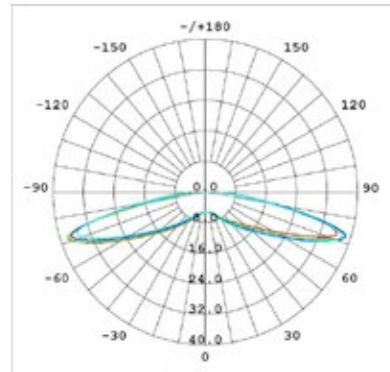
Item no	LED colour	CT (K)	CRI	Power (W/mod)	Flux (lm/mod)	Efficacy (lm/W)	Voltage (DC)	Modules per chain	Modules per carton
PR20-W40	white	4000	>70	0.8	120	150	12	40	480
PR20-W50	white	5000	>70	0.8	120	150	12	40	480
PR20-W70	white	7000	>70	0.8	120	150	12	40	480

DIMENSIONS
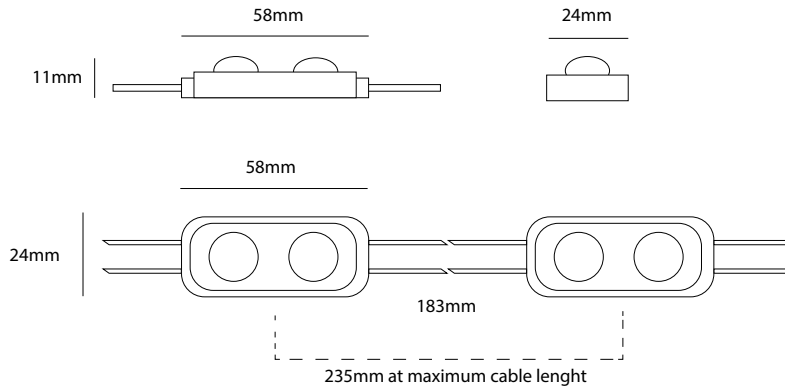
58mm
24mm
11mm

58mm
24mm
183mm
235mm at maximum cable lenght

Light box depth (mm)	Space between modules (mm)	Installing density (pcs/m2)	Surface luminance range (cd/m²)
dz=60	dx=150, dy=150	43	1315-1840
dz=80	dx=178, dy=180	30	745-915
dz=100	dx=178, dy=240	22	525-840

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.
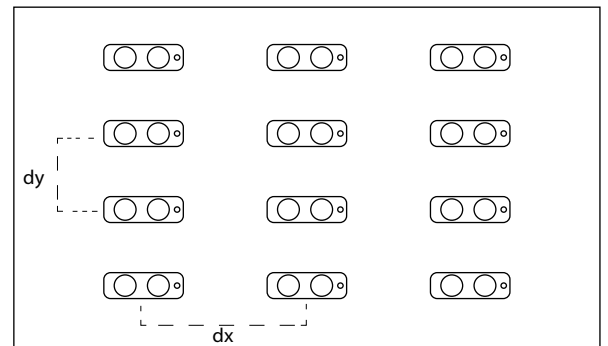
POWER SUPPLY CAPACITY 12V SERIES

Item	PP1230	PP1260	PP12100	PP12150	PP12200
Power Output	30W	60W	100W	150W	200W
PR20 modules / power supply	34	68	113	169	225
Number of chains (maximum 40 modules per chain)	1	2	3	5	6

PACKAGING

Item	Qty (pcs/bag)	Qty (bag / carton)	Total Qty (pcs / carton)	Total weight (kg)	Carton size (LxWxH) in mm
PR20	40	12	480	10,2	528 x 376 x 272

LUCOLED PR40

- *7 years warranty*
  First 2 years extended warranty
- *Prismatic Flat Beam technology*
- *Industry leading efficacy*
- *Constant Current Technology*
- *Narrow white binning*

Lucoled Premium PR40 modules offer a high quality and efficient backlit solution for lightboxes and channel letters between 60 and 200mm deep.

Using the latest Top-Tier LED technology and prismatic flat beam optics Lucoled Premium 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 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.

SPECIFICATIONS

- Dimensions 97x24x11mm
- Warranty 7 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 -40~+60C

LUMINOUS INTENSITY DISTRIBUTION

UL	CE	RoHS	**4** LEDS	Injection Molding Device	**DC 12V**	**IP 67**	**7** Years
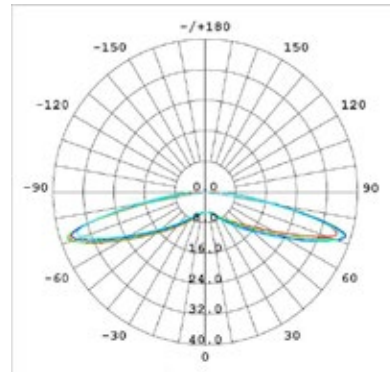
Item no	LED colour	CT (K)	CRI	Power (W/mod)	Flux (lm/mod)	Efficacy (lm/W)	Voltage (DC)	Modules per chain	Modules per carton
PR40-W70	white	7000	>70	1.2	195	163	12	20	320

DIMENSIONS
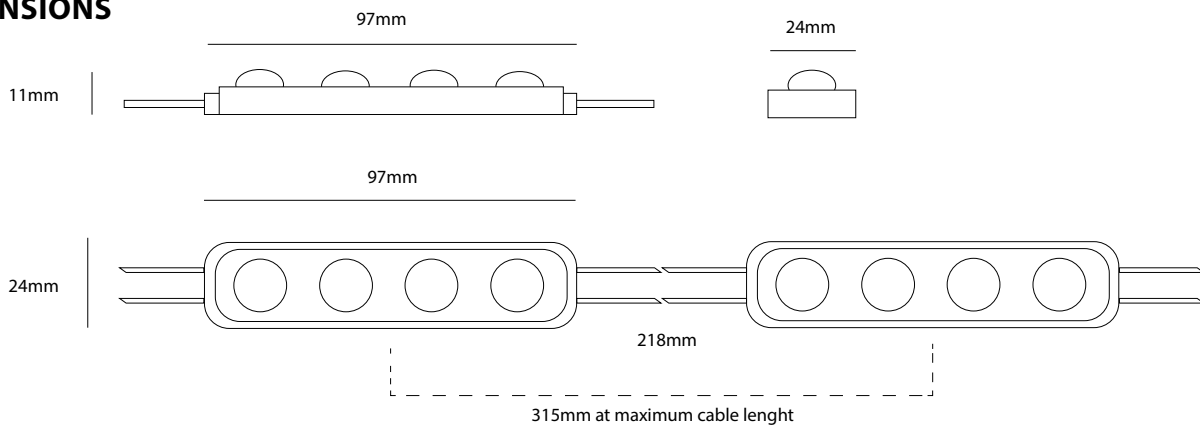
97mm

11mm

24mm

97mm

24mm

218mm

315mm at maximum cable lenght

Light box depth (mm)	Space between modules (mm)	Installing density (pcs/m2)	Surface luminance range (cd/m²)
dz=60	dx=150, dy=150	43	2105-1840
dz=80	dx=180, dy=180	30	1630-1315
dz=100	dx=220, dy=250	18	1155-840
dz=120	dx=220, dy=300	14	735-470
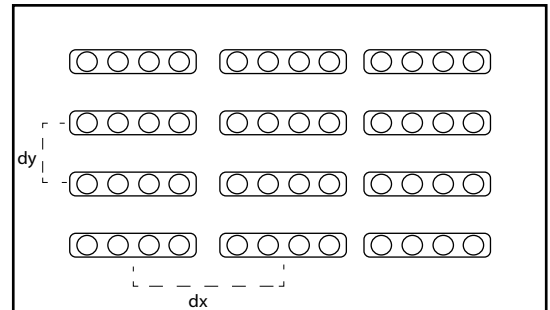
Results may vary depending on face material properties. The data above was obtained using 3mm thick opaque acrylic with a 54% light transmittance. Lucoled advises to paint the inside of the box/letters in a matt white colour for achieving an optimal result. Always test before production.

dy

dx

POWER SUPPLY CAPACITY 12V SERIES

Item	PP1230	PP1260	PP12100	PP12150	PP12200
Power Output	30W	60W	100W	150W	200W
PR40 modules / power supply	23	45	75	113	150
Number of chains (maximum 20 modules per chain)	1	2	3	5	7

PACKAGING

Item	Qty (pcs/bag)	Qty (bag / carton)	Total Qty (pcs / carton)	Total weight (kg)	Carton size (LxWxH) in mm
PR40	40	8	320	10,9	528 x 376 x 272

LUCOLED PS31

- *7 years warranty*
  First 2 years extended warranty
- *Lucolense wide angle technology*
- *High efficacy*
- *Constant Current Technology*
- *Narrow white binning*

Lucoled Premium PS31 modules offer a high quality and efficient backlit solution for lightboxes and channel letters between 60 and 120mm deep.

Using the latest Top-Tier LED technology and high quality optics Lucoled Premium 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 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.

SPECIFICATIONS

- Dimensions 45x11x10mm
- Warranty 7 years (first 2 years extended)
- Beam angle: 160º
- Can be cut between every unit
- UL, CE and RoHS compliant
- Narrow white binning
- Constant Current Technology
- Operating temperature -25~+60C

LUMINOUS INTENSITY DISTRIBUTION

UL	CE	RoHS	3 LEDS	Injection Molding Device	DC 12V	IP 66	7 Years
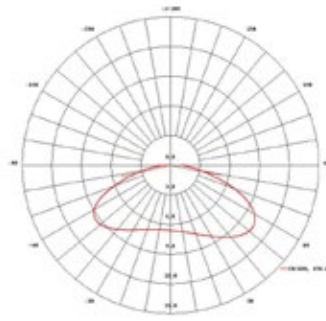
Item no	LED colour	CT (K)	CRI	Power (W/mod)	Flux (lm/mod)	Efficacy (lm/W)	Voltage (DC)	Modules per chain	Modules per carton
PS31-W30	white	3000	>80	0.31	31	100	12	50	1200
PS31-W65	white	6500	>80	0.28	31	111	12	50	1200
PS31-R	red	n.a.	n.a.	0.50	18	36	12	50	1200
PS31-B	blue	n.a.	n.a.	0.48	11	23	12	50	1200

DIMENSIONS

45mm
11mm
130mm
175mm at maximum cable lenght
10mm
◆ LUCOLED
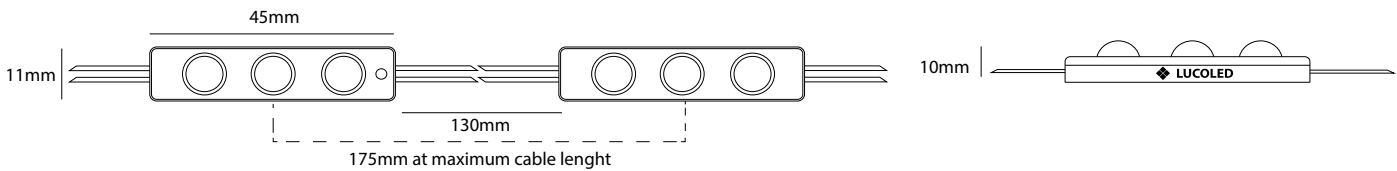
Light box depth (mm)	Space between modules (mm)	Installing density (pcs/m2)
dz=50	dx=140, dy=95	70
dz=75	dx=150, dy=150	36
dz=100	dx=150, dy=200	24
dz=125	dx=175, dy=200	20

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.
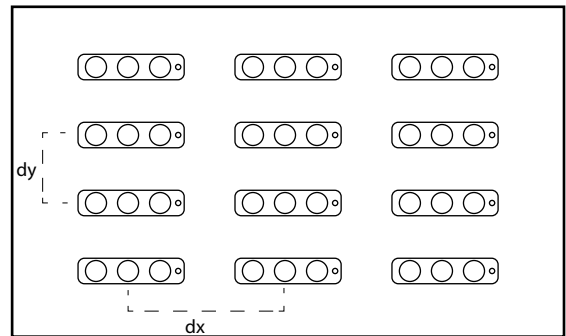
POWER SUPPLY CAPACITY 12V SERIES

Item	PP1230	PP1260	PP12100	PP12150	PP12200
Power Output	30W	60W	100W	150W	200W
PS31-W65 modules / power supply	96	193	321	482	642
PS31-W30 modules / power supply	87	174	290	435	580
PS31-R modules / power supply	54	104	180	270	360
PS31-B modules / power supply	56	112	187	281	374

PACKAGING

Item	Qty (pcs/bag)	Qty (bag / carton)	Total Qty (pcs / carton)	Total weight (kgs)	Carton size (LxWxH) in mm
PS31	100	12	1200	12,0	528 x 376 x 272

LUCOLED PV10

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

Lucoled Premium Value PV10 modules offer a high quality and efficient backlit solution for lightboxes and channel letters between 40 and 100mm 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.

SPECIFICATIONS

- Dimensions 41x16x7.5mm
- Warranty 5 years (first 2 years extended)
- Beam angle: 170º
- Can be cut between every unit
- EL, CE and RoHS compliant
- Narrow white binning
- Constant Current Technology
- Operating temperature -25~+60ºC

LUMINOUS INTENSITY DISTRIBUTION

UL	CE	RoHS	1 LED	Injection Molding Device	DC 12V	IP 66	5 Years
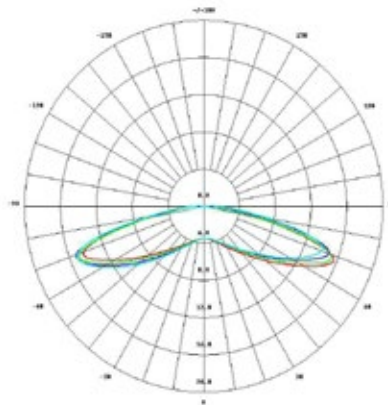
Item no	LED colour	CT (K)	CRI	Power (W/mod)	Flux (lm/mod)	Efficacy (lm/W)	Voltage (DC)	Modules per chain	Modules per carton
PV10-W30	white	3000	>75	0.30	45	152	12	50	1800
PV10-W40	white	4000	>75	0.30	49	161	12	50	1800
PV10-W50	white	5000	>75	0.30	49	160	12	50	1800
PV10-W65	white	6500	>75	0.29	48	165	12	50	1800

DIMENSIONS
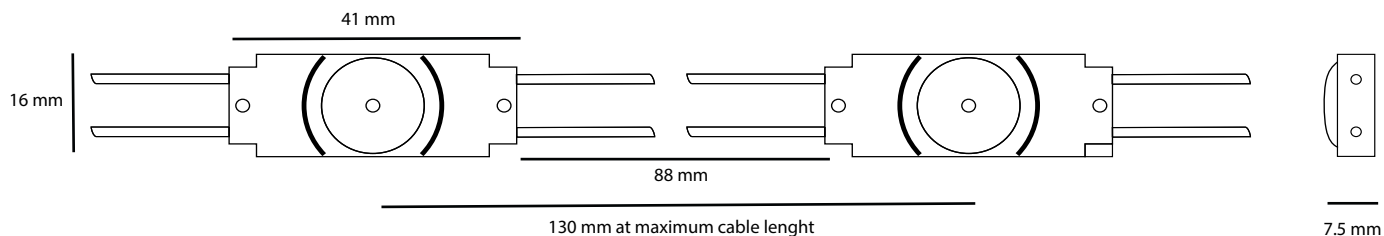
41 mm

16 mm

88 mm

130 mm at maximum cable lenght

7.5 mm

Light box depth (mm)	Space between modules (mm)	Installing density (pcs/m2)	Surface luminance range (cd/m²)
dz=60	dx=90, dy=90	100	1580-1740
dz=80	dx=120, dy=120	64	895-1160
dz=100	dx=130, dy=130	49	740-840
dz=120	dx=130, dy=140	49	580-680

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.
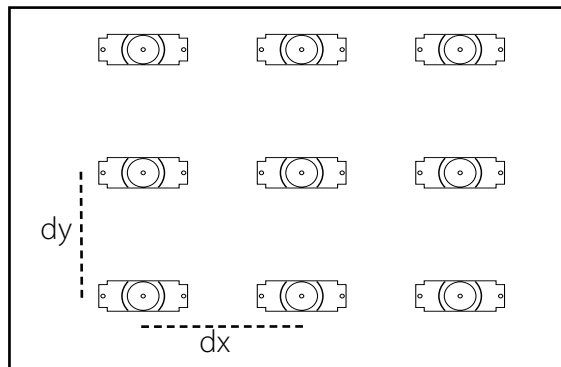
POWER SUPPLY CAPACITY 12V SERIES

Item	PP1230	PP1260	PP12100	PP12150	PP12200
Power Output	30W	60W	100W	150W	200W
PV10 modules / power supply	93	186	310	465	620
Number of chains (maximum 50 modules per chain)	1	3	5	9	12

PACKAGING

Item	Qty (pcs/bag)	Qty (bag / carton)	Total Qty (pcs / carton)	Total weight (kg)	Carton size (LxWxH) in mm
PV10	50	36	1800	16,6	528 x 376 x 272

LUCOLED PV20

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

Lucoled Premium Value PV20 modules offer a high quality and efficient backlit solution for lightboxes and channel letters between 60 and 100mm 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.

SPECIFICATIONS

- Dimensions 57x16x7.5mm
- Warranty 5 years (first 2 years extended)
- Beam angle: 170º
- Can be cut between every unit
- EL, CE and RoHS compliant
- Narrow white binning
- Constant Current Technology
- Operating temperature -25~+60ºC

LUMINOUS INTENSITY DISTRIBUTION

UL	CE	RoHS	2 LED	Injection Molding Device	DC 12V	IP 66	5 Years
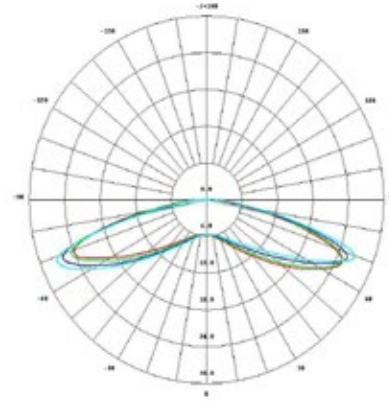
Item no	LED colour	CT (K)	CRI	Power (W/mod)	Flux (lm/mod)	Efficacy (lm/W)	Voltage (DC)	Modules per chain	Modules per carton
PV20-W30	white	3000	>75	0.71	99	139	12	40	1200
PV20-W40	white	4000	>75	0.72	114	158	12	40	1200
PV20-W50	white	5000	>75	0.72	113	157	12	40	1200
PV20-W65	white	6500	>75	0.70	113	161	12	40	1200

DIMENSIONS
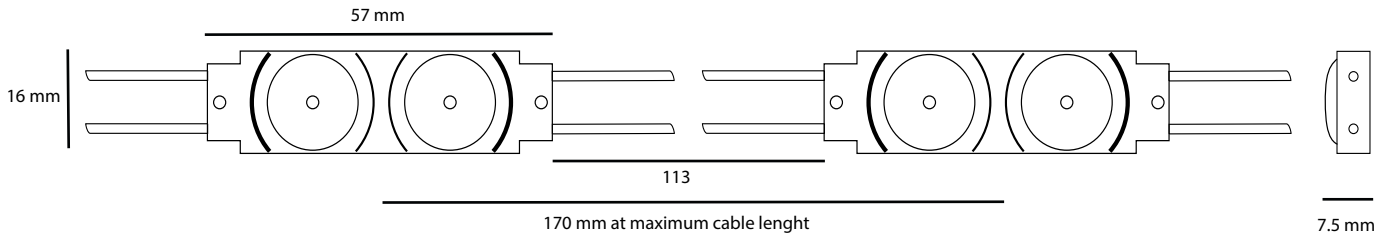
57 mm

16 mm

113

170 mm at maximum cable lenght

7.5 mm

Light box depth (mm)	Space between modules (mm)	Installing density (pcs/m2)	Surface luminance range (cd/m²)
dz=60	dx=130, dy=100	72	2130-2450
dz=80	dx=150, dy=150	43	1200-1560
dz=100	dx=170, dy=160	36	990-1140
dz=120	dx=170, dy=170	25	880-990

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.
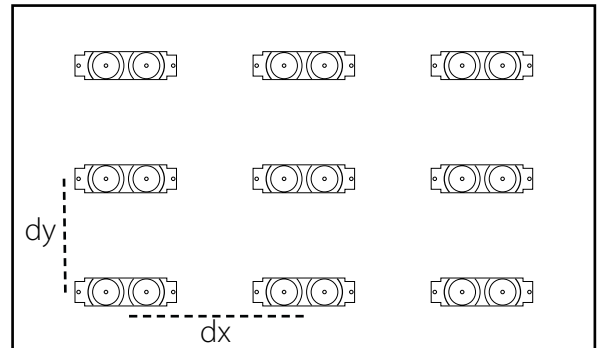
POWER SUPPLY CAPACITY 12V SERIES

Item	PP1230	PP1260	PP12100	PP12150	PP12200
Power Output	30W	60W	100W	150W	200W
PV20 modules / power supply	38	75	125	188	250
Number of chains (maximum 40 modules per chain)	1	1	3	4	6

PACKAGING

Item	Qty (pcs/bag)	Qty (bag / carton)	Total Qty (pcs / carton)	Total weight (kg)	Carton size (LxWxH) in mm
PV20	40	30	1200	15.2	528 x 376 x 272

LUCOLED PV30

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

Lucoled Premium Value PV30 modules offer a high quality and efficient backlit solution for lightboxes and channel letters between 80 and 120mm 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.

SPECIFICATIONS

- Dimensions 79x16x7.5mm
- Warranty 5 years (first 2 years extended)
- Beam angle: 170⁰
- Can be cut between every unit
- EL, CE and RoHS compliant
- Narrow white binning
- Constant Current Technology
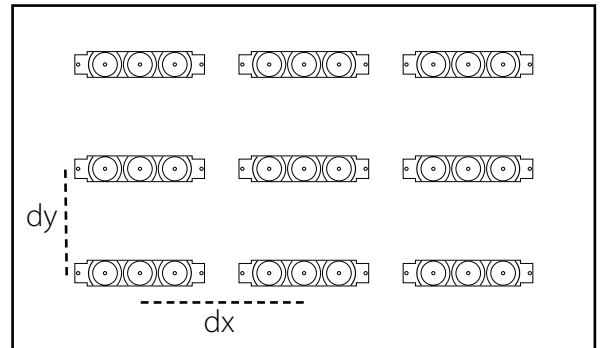- Operating temperature -25~+60⁰C

LUMINOUS INTENSITY DISTRIBUTION

UL	CE	RoHS	3 LED	Injection Molding Device	DC 12V	IP 66	5 Years
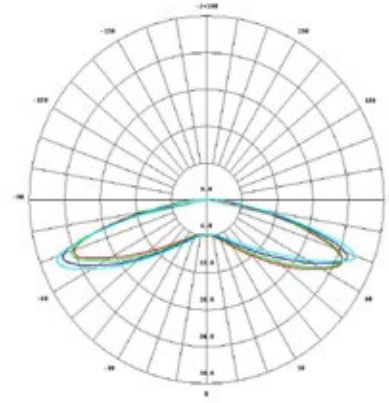
Item no	LED colour	CT (K)	CRI	Power (W/mod)	Flux (lm/mod)	Efficacy (lm/W)	Voltage (DC)	Modules per chain	Modules per carton
PV30-W65	white	6500	>75	1.0	160	160	12	30	900

DIMENSIONS
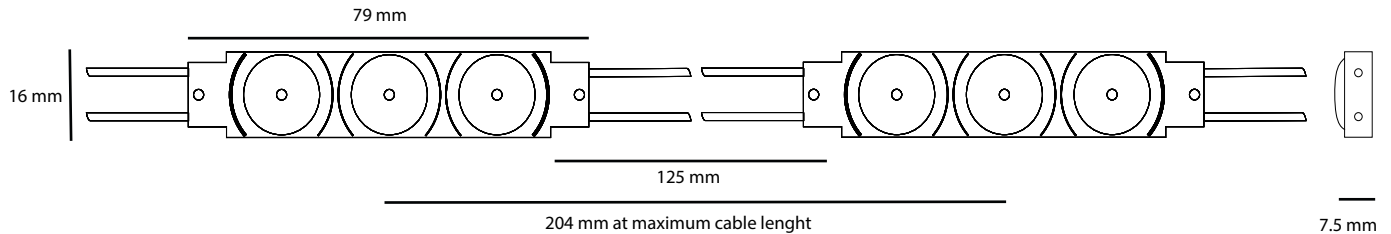
79 mm

16 mm

125 mm

204 mm at maximum cable lenght

7.5 mm

Light box depth (mm)	Space between modules (mm)	Installing density (pcs/m2)	Surface luminance range (cd/m²)
dz=80	dx=160, dy=140	42	1920-2340
dz=100	dx=190, dy=160	28	1450-1560
dz=120	dx=200, dy=170	23	1140-1350

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.

dy

dx

POWER SUPPLY CAPACITY 12V SERIES

Item	PP1230	PP1260	PP12100	PP12150	PP12200
Power Output	30W	60W	100W	150W	200W
PV30 modules / power supply	27	54	90	135	180
Number of chains (maximum 30 modules per chain)	1	1	2	3	6

PACKAGING

Item	Qty (pcs/bag)	Qty (bag / carton)	Total Qty (pcs / carton)	Total weight (kg)	Carton size (LxWxH) in mm
PV30	30	30	900	13.6	528 x 376 x 272

LUCOLED PV40

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

Lucoled Premium Value PV40 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.

SPECIFICATIONS

- Dimensions 49x39x7.5mm
- Warranty 5 years (first 2 years extended)
- Beam angle: 170º
- Can be cut between every unit
- EL, CE and RoHS compliant
- Narrow white binning
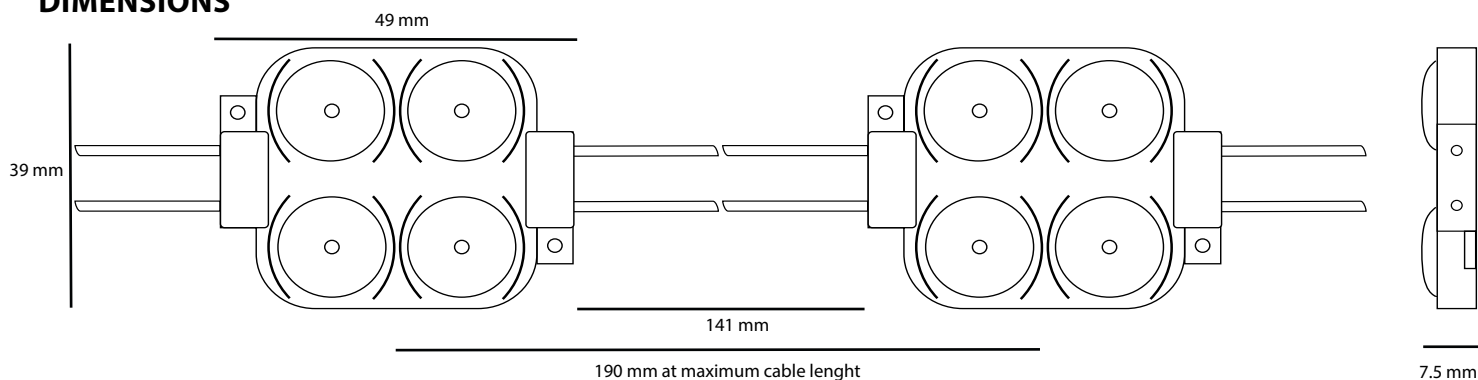- Constant Current Technology
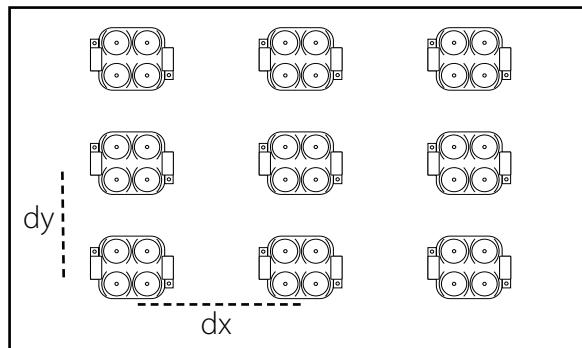- Operating temperature -25~+60ºC

LUMINOUS INTENSITY DISTRIBUTION

UL	CE	RoHS	4 LED	Injection Molding Device	DC 12V	IP 66	5 Years
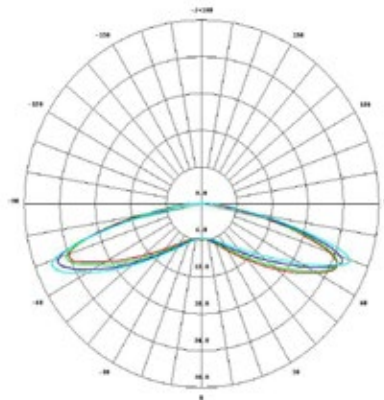
Item no	LED colour	CT (K)	CRI	Power (W/mod)	Flux (lm/mod)	Efficacy (lm/W)	Voltage (DC)	Modules per chain	Modules per carton
PV40-W65	white	6500	>75	1.49	243	163	12	30	780

DIMENSIONS

49 mm

39 mm

141 mm

190 mm at maximum cable lenght

7.5 mm

Light box depth (mm)	Space between modules (mm)	Installing density (pcs/m2)	Surface luminance range (cd/m²)
dz=80	dx=160, dy=140	42	2700-3380
dz=100	dx=190, dy=160	28	2230-2600
dz=120	dx=190, dy=190	25	1660-2080

dy

dx

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 12V SERIES

Item	PP1230	PP1260	PP12100	PP12150	PP12200
Power Output	30W	60W	100W	150W	200W
PV30 modules / power supply	18	38	63	94	125
Number of chains (maximum 30 modules per chain)		1	2	3	4

PACKAGING

Item	Qty (pcs/bag)	Qty (bag / carton)	Total Qty (pcs / carton)	Total weight (kg)	Carton size (LxWxH) in mm
PV40	30	26	780	15.8	528 x 376 x 272

LUCOLED VR10

- *5 years warranty*
- *Lucolense wide angle technology*
- *Medium efficacy*
- *Constant Current Technology*
- *Narrow white binning*

Lucoled Value Range VR10 modules offer a high quality and efficient backlit solution for lightboxes and channel letters between 80 and 120mm deep.

Lucoled VR series use medium efficiency LED's, optics and high quality components, resulting in a reliable, efficient, fit-for-purpose, solution for your every-day sign projects.

Lucoled VR series offer an excellent price-performance ratio and a 5 year warranty.

SPECIFICATIONS

- Dimensions 35x16x7.8mm
- Warranty 5 years
- Beam angle: 160º
- Can be cut between every unit
- EL, CE and RoHS compliant
- Narrow white binning
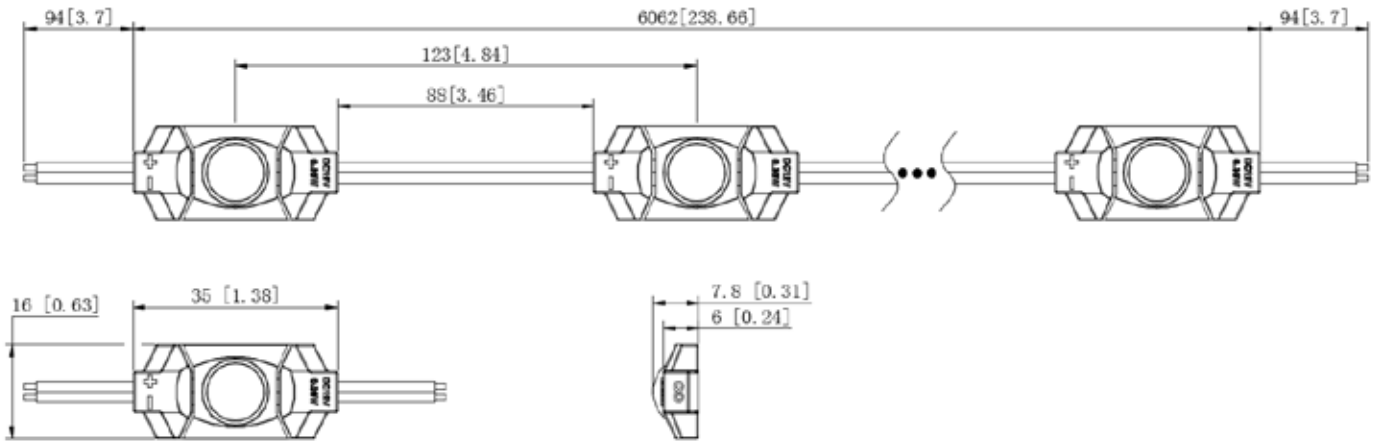- Constant Current Technology
- Operating temperature -25~+60ºC

## LUMINOUS INTENSITY DISTRIBUTION

UL	CE	RoHS	1 LED	Injection Molding Device	DC 12V	IP 65	5 Years
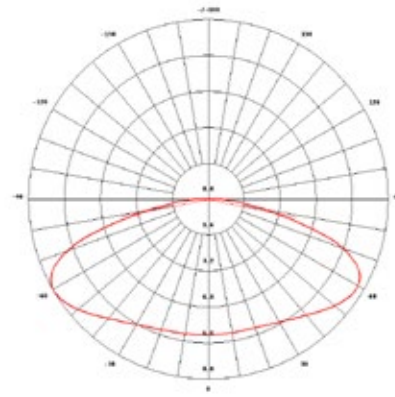
Item no	LED colour	CT (K)	CRI	Power (W/mod)	Flux (lm/mod)	Efficacy (lm/W)	Voltage (DC)	Modules per chain	Modules per carton
VR10-W65	white	6500	>75	0.36	44	122	12	50	2000

DIMENSIONS

Light box depth (mm)	Space between modules (mm)	Installing density (pcs/m2)	Surface luminance range (cd/m²)
dz=80	dx=85, dy=85	121	1140-1350
dz=100	dx=95, dy=120	80	830-880
dz=120	dx=105, dy=140	63	670-720
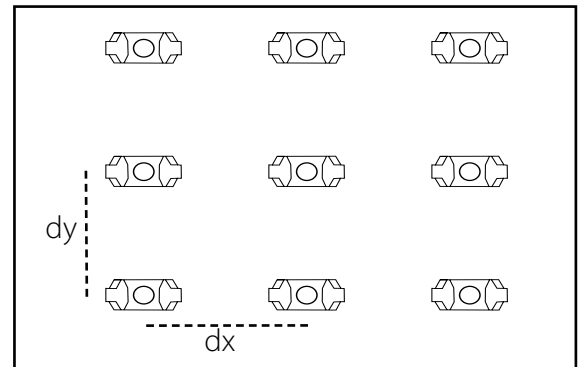
Results may vary depending on face material properties. The data above was obtained using 3mm thick opaque acrylic with a 54% light transmittance. Lucoled advises to paint the inside of the box/letters in a matt white colour for achieving an optimal result. Always test before production.

POWER SUPPLY CAPACITY 12V SERIES

Item	PP1230	PP1260	PP12100	PP12150	PP12200
Power Output	30W	60W	100W	150W	200W
VR10 modules / power supply	75	150	250	375	500
Number of chains (maximum 50 modules per chain)	1	2	5	7	10

PACKAGING

Item	Qty (pcs/bag)	Qty (bag / carton)	Total Qty (pcs / carton)	Total weight (kg)	Carton size (LxWxH) in mm
VR10	50	40	2000	12.7	528 x 376 x 272

LUCOLED VR20

- *5 years warranty*
- *Lucolense wide angle technology*
- *Medium efficacy*
- *Constant Current Technology*
- *Narrow white binning*

Lucoled Value Range VR20 modules offer a high quality and efficient backlit solution for lightboxes and channel letters between 80 and 120mm deep.

Lucoled VR series use medium efficiency LED's, optics and high quality components, resulting in a reliable, efficient, fit-for-purpose, solution for your every-day sign projects.

Lucoled VR series offer an excellent price-performance ratio and a 5 year warranty.

SPECIFICATIONS

- Dimensions 49x16x7.8mm
- Warranty 5 years
- Beam angle: 160º
- Can be cut between every unit
- EL, CE and RoHS compliant
- Narrow white binning
- Constant Current Technology
- Operating temperature -25~+60ºC

## LUMINOUS INTENSITY DISTRIBUTION

UL	CE	RoHS	2 LED	Injection Molding Device	DC 12V	IP 65	5 Years
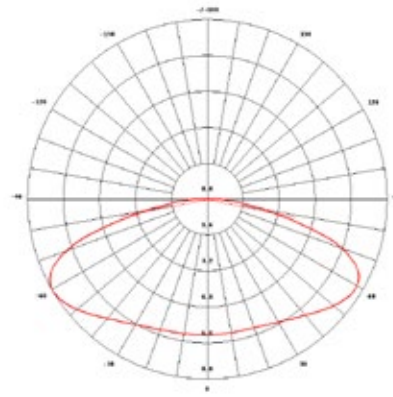
Item no	LED colour	CT (K)	CRI	Power (W/mod)	Flux (lm/mod)	Efficacy (lm/W)	Voltage (DC)	Modules per chain	Modules per carton
VR20-W65	white	6500	>75	0.72	93	129	12	50	1400

DIMENSIONS
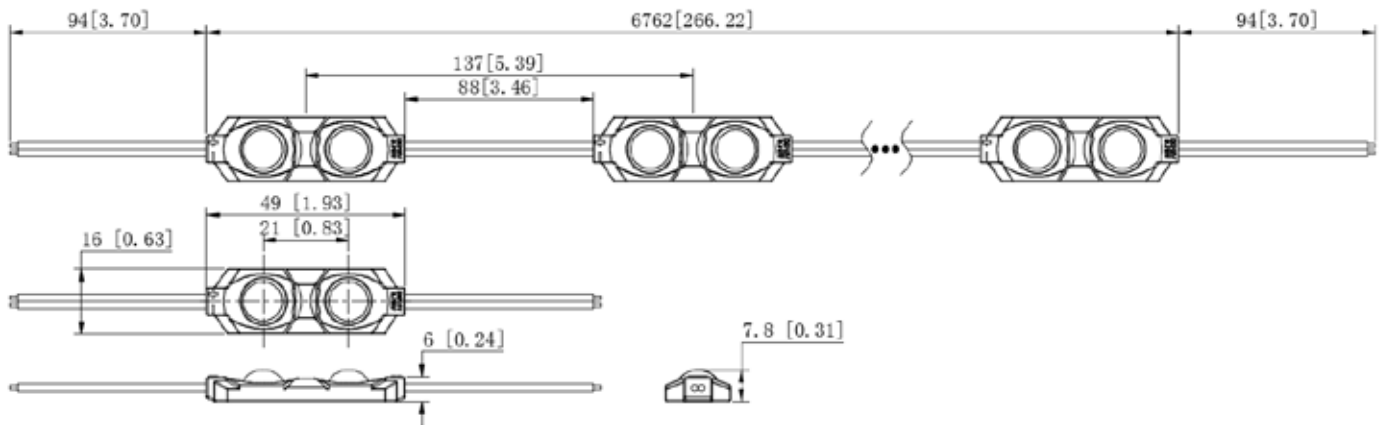
Light box depth (mm)	Space between modules (mm)	Installing density (pcs/m2)	Surface luminance range (cd/m²)
dz=80	dx=110, dy=90	99	1760-1975
dz=100	dx=135, dy=110	63	1450-1560
dz=120	dx=135, dy=135	49	1195-1350
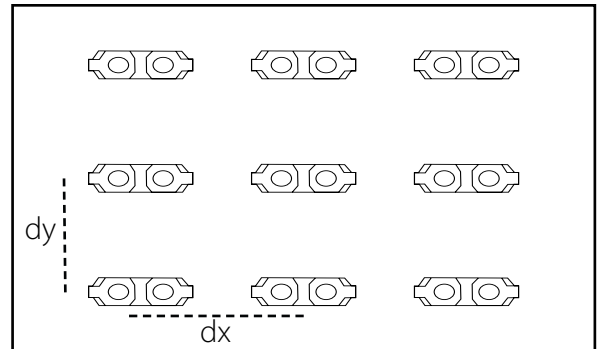
Results may vary depending on face material properties. The data above was obtained using 3mm thick opaque acrylic with a 54% light transmittance. Lucoled advises to paint the inside of the box/letters in a matt white colour for achieving an optimal result. Always test before production.

POWER SUPPLY CAPACITY 12V SERIES

Item	PP1230	PP1260	PP12100	PP12150	PP12200
Power Output	30W	60W	100W	150W	200W
VR20 modules / power supply	38	75	125	188	250
Number of chains (maximum 40 modules per chain)	1	1	3	4	6

PACKAGING

Item	Qty (pcs/bag)	Qty (bag / carton)	Total Qty (pcs / carton)	Total weight (kg)	Carton size (LxWxH) in mm
VR20	50	28	1400	11.5	528 x 376 x 272

LUCOLED VR30

- *5 years warranty*
- *Lucolense wide angle technology*
- *Medium efficacy*
- *Constant Current Technology*
- *Narrow white binning*

Lucoled Value Range VR30 modules offer a high quality and efficient backlit solution for lightboxes and channel letters between 80 and 120mm deep.

Lucoled VR series use medium efficiency LED's, optics and high quality components, resulting in a reliable, efficient, fit-for-purpose, solution for your every-day sign projects.

Lucoled VR series offer an excellent price-performance ratio and a 5 year warranty.

SPECIFICATIONS

- Dimensions 70x16x7.8mm
- Warranty 5 years
- Beam angle: 160⁰
- Can be cut between every unit
- EL, CE and RoHS compliant
- Narrow white binning
- Constant Current Technology
- Operating temperature -25~+60⁰C

## LUMINOUS INTENSITY DISTRIBUTION

UL	CE	RoHS	3 LED	Injection Molding Device	DC 12V	IP 65	5 Years
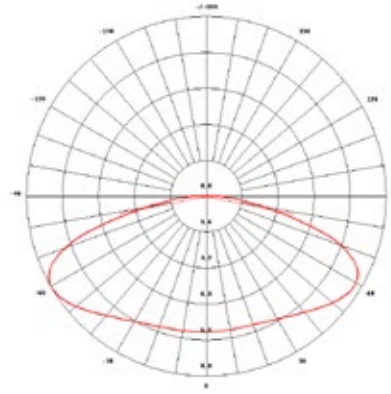
Item no	LED colour	CT (K) or nm	CRI	Power (W/mod)	Flux (lm/mod)	Efficacy (lm/W)	Voltage (DC)	Modules per chain	Modules per carton
VR30-W65	white	6500	>75	1.0	128	128	12	50	1200
VR30-R	red	620-625nm	-	0.72	27	38	12	50	1200
VR30-G	green	525-530nm	-	0.72	53	74	12	50	1200
VR30-B	blue	465-470nm	-	0.72	10	14	12	50	1200
VR30-Y	yelllow	585-590nm	-	0.72	23	32	12	50	1200

DIMENSIONS
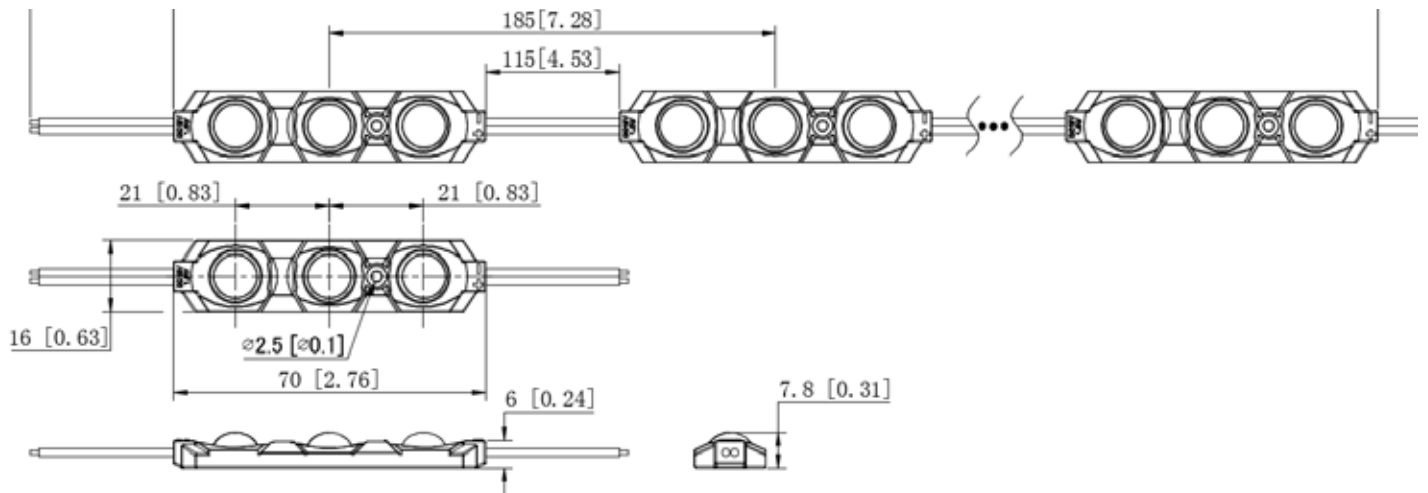
Light box depth (mm)	Space between modules (mm)	Installing density (pcs/m2)	Surface luminance range (cd/m²)
dz=80	dx=100, dy=90	90	2440-2900
dz=100	dx=130, dy=120	56	1760-2080
dz=120	dx=185, dy=140	35	1190-1400
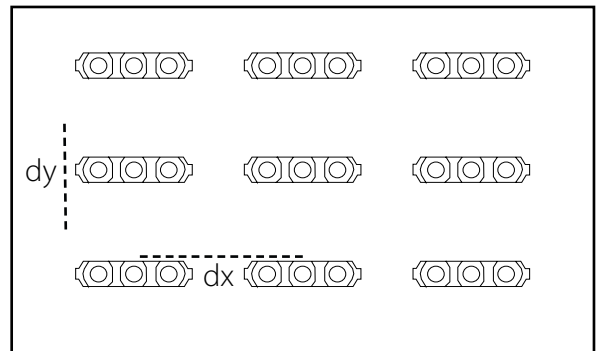
Results may vary depending on face material properties. The data above was obtained using 3mm thick opaque acrylic with a 54% light transmittance. Lucoled advises to paint the inside of the box/letters in a matt white colour for achieving an optimal result. Always test before production.

POWER SUPPLY CAPACITY 12V SERIES

Item	PP1230	PP1260	PP12100	PP12150	PP12200
Power Output	30W	60W	100W	150W	200W
VR30-W65 modules per power supply	27	54	90	135	180
VR30-R/G/B/Y modules per power supply	37	75	125	187	225
Number of chains (maximum 30 modules per chain)	1W/1RGBY	1 W/2RGBY	2 W/3 RGBY	4 W/6 RGBY	6 W/7 RGBY

PACKAGING

Item	Qty (pcs/bag)	Qty (bag / carton)	Total Qty (pcs / carton)	Total weight (kg)	Carton size (LxWxH) in mm
VR30	50	24	1200	14.5	528 x 376 x 272

LUCOLED VR40

- *5 years warranty*
- *Lucolense wide angle technology*
- *Medium efficacy*
- *Constant Current Technology*
- *Narrow white binning*

Lucoled Value Range VR40 modules offer a high quality and efficient backlit solution for lightboxes and channel letters between 80 and 120mm deep.

Lucoled VR series use medium efficiency LED's, optics and high quality components, resulting in a reliable, efficient, fit-for-purpose, solution for your every-day sign projects.

Lucoled VR series offer an excellent price-performance ratio and a 5 year warranty.

SPECIFICATIONS

- Dimensions 45x38x7.8mm
- Warranty 5 years
- Beam angle: 160º
- Can be cut between every unit
- EL, CE and RoHS compliant
- Narrow white binning
- Constant Current Technology
- Operating temperature -25~+60ºC

LUMINOUS INTENSITY DISTRIBUTION

| UL | CE | RoHS | 4 LED | Injection Molding Device | DC 12V | IP 65 | 5 Years |
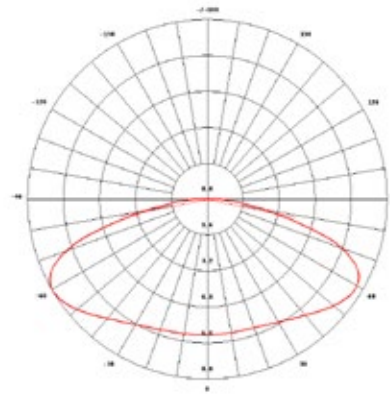
Item no	LED colour	CT (K)	CRI	Power (W/mod)	Flux (lm/mod)	Efficacy (lm/W)	Voltage (DC)	Modules per chain	Modules per carton
VR40-W65	white	6500	>75	1.5	188	125	12	50	800

DIMENSIONS
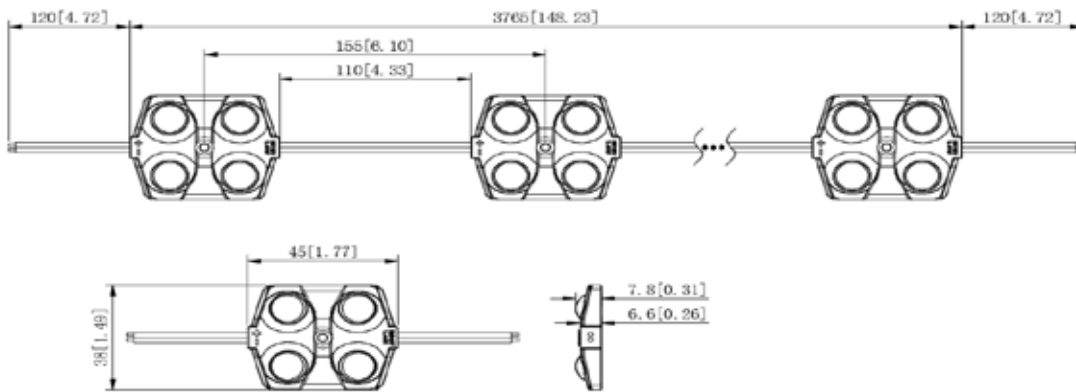
Light box depth (mm)	Space between modules (mm)	Installing density (pcs/m2)	Surface luminance range (cd/m²)
dz=80	dx=130, dy=80	84	3000-3530
dz=100	dx=155, dy=110	54	2230-2440
dz=120	dx=155, dy=140	42	1920-2080
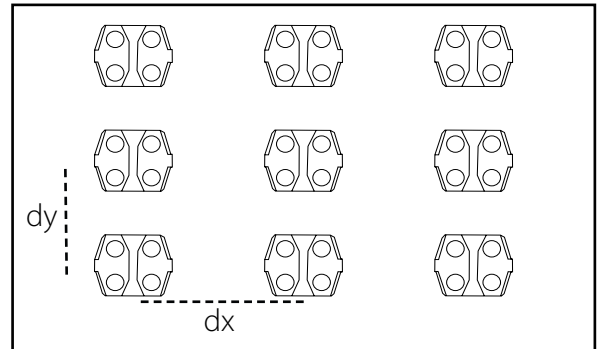
Results may vary depending on face material properties. The data above was obtained using 3mm thick opaque acrylic with a 54% light transmittance. Lucoled advises to paint the inside of the box/letters in a matt white colour for achieving an optimal result. Always test before production.

POWER SUPPLY CAPACITY 12V SERIES

Item	PP1230	PP1260	PP12100	PP12150	PP12200
Power Output	30W	60W	100W	150W	200W
VR30 modules / power supply	18	38	63	94	125
Number of chains (maximum 30 modules per chain)		1	2	3	4

PACKAGING

Item	Qty (pcs/bag)	Qty (bag / carton)	Total Qty (pcs / carton)	Total weight (kg)	Carton size (LxWxH) in mm
VR40	50	16	800	14.1	528 x 376 x 272

LUCOLED BL11
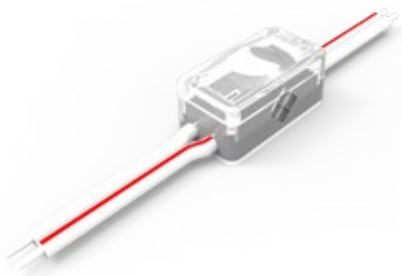
- *5 years warranty*
  First 2 years extended warranty
- *High efficacy: 158lm/W*
- *Constant Current Technology*
- *Narrow white binning*

Lucoled Plus BL11 modules offer a high quality and efficient backlit solution for channel letters made from routed full acrylic.

Lucoled Plus BL11 modules are IP65 and can be used without the need for fully potting the acrylic letters. This makes the production process much cleaner and faster. Potting material can also damage LED phosphor and can have a colour shift and reduced life as a result. The BL11 is a fully enclosed module and does not have this disadvantage.

Lucoled Plus BL11 can also be used in very narrow and small traditional channel letters.

SPECIFICATIONS

- Dimensions 13x7x7mm
- Warranty 5 years (first 2 years extended)
- Beam angle: 120º
- Can be cut between every unit
- UL, CE and RoHS compliant
- Narrow white binning
- Constant Current Technology
- Operating temperature -25~+60C

## LUMINOUS INTENSITY DISTRIBUTION

UL	CE	RoHS	1 LED	Injection Molding Device	DC 12V	IP 65	5 Years
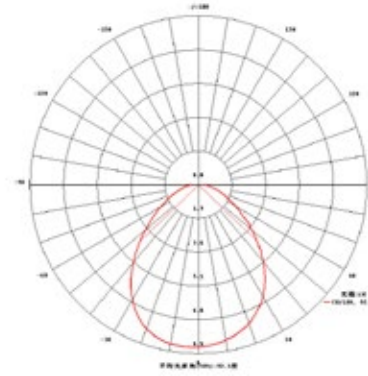
Item no	LED colour	CT (K)	CRI	Power (W/mod)	Flux (lm/mod)	Efficacy (lm/W)	Voltage (DC)	Modules per chain	Modules per carton
BL11-W65	white	6500	>70	0.24	38	158	12	50	8400

DIMENSIONS
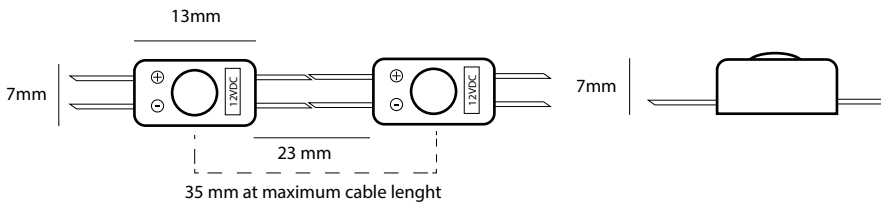
13mm

7mm

23 mm

35 mm at maximum cable lenght

7mm

POWER SUPPLY CAPACITY 12V SERIES

Item	PP1230	PP1260	PP12100	PP12150	PP12200
Power Output	30W	60W	100W	150W	200W
BL11 modules / power supply	112	225	375	562	750
Number of chains (maximum 50 modules per chain)	3	4	8	12	15

PACKAGING

Item	Qty (pcs/bag)	Qty (bag / carton)	Total Qty (pcs / carton)	Total weight (kg)	Carton size (LxWxH) in mm
BL11	300	28	8400	12.5	264 x 376 x 272
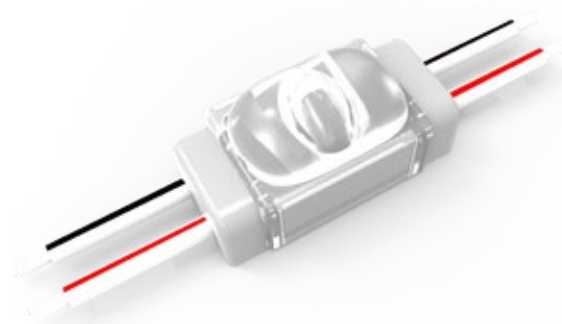
LUCOLED BL15

- *5 years warranty*
  First 2 years extended warranty
- *Lucolense wide beam technology*
- *High efficacy: 158lm/W*
- *Constant Current Technology*
- *Narrow white binning*

Lucoled Plus BL15 modules offer a high quality and efficient backlit solution for channel letters made from routed full acrylic.

Lucoled Plus BL15 modules are IP67 and can be used without the need for fully potting the acrylic letters. This makes the production process much cleaner and faster. Potting material can also damage LED phosphor and can have a colour shift and reduced life as a result. The BL15 is a fully enclosed module and does not have this disadvantage.

Lucoled Plus BL15 can also be used in very narrow and small traditional channel letters.

SPECIFICATIONS

- Dimensions 16.6x8.4x8.4mm
- Warranty 5 years (first 2 years extended)
- Beam angle: 170º x 130º oval
- Can be cut between every unit
- UL, CE and RoHS compliant
- Narrow white binning
- Constant Current Technology
- Operating temperature -25~+80C

LUMINOUS INTENSITY DISTRIBUTION

UL	CE	RoHS	1 LED	Injection Molding Device	DC 12V	IP 65	5 Years
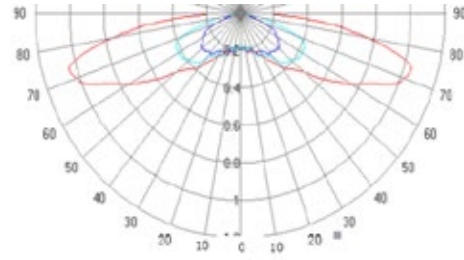
Item no	LED colour	CT (K)	CRI	Power (W/mod)	Flux (lm/mod)	Efficacy (lm/W)	Voltage (DC)	Modules per chain	Modules per carton
BL15-W65	white	6500	>70	0.24	38	158	12	50	6000

DIMENSIONS
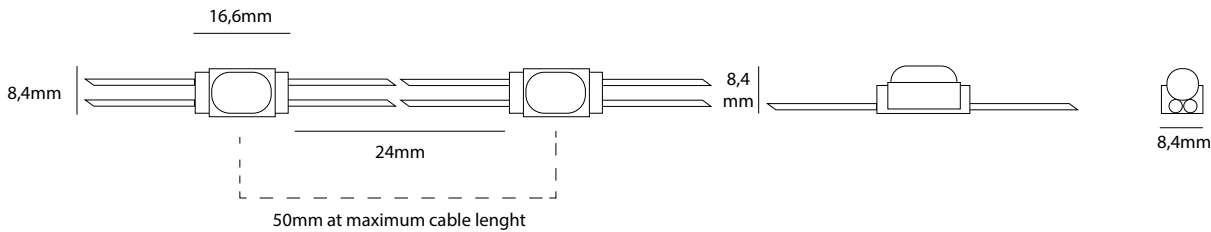
16,6mm

8,4mm

24mm

50mm at maximum cable lenght

8,4 mm

8,4mm

POWER SUPPLY CAPACITY 12V SERIES

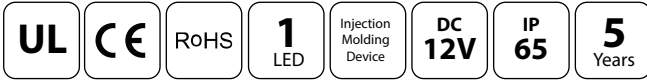| Item	PP1230	PP1260	PP12100	PP12150	PP12200
Power Output	30W	60W	100W	150W	200W
BL15 modules / power supply	112	225	375	562	750
Number of chains (maximum 50 modules per chain)	3	4	8	12	15

PACKAGING

Item	Qty (pcs/bag)	Qty (bag / carton)	Total Qty (pcs / carton)	Total weight (kg)	Carton size (LxWxH) in mm
BL15	500	12	6000	7.2	264 x 376 x 272
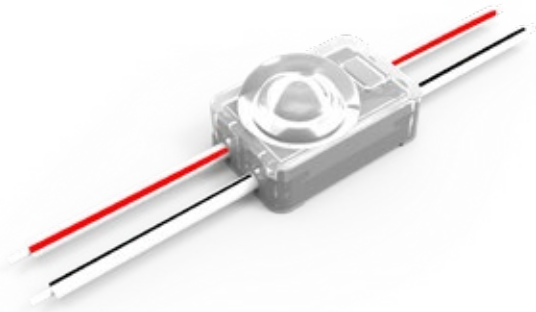
LUCOLED BL16

- *5 years warranty*
  First 2 years extended warranty
- *Lucolense Technology*
- *High efficacy: 133lm/W*
- *Constant Current Technology*
- *Narrow white binning*

Lucoled Plus BL16 modules offer a high quality and efficient backlit solution for small face lit channel letters with a depth from 20 to 60mm and stroke widths up to 50 mm for a single row.

Lucoled Plus BL16 modules are IP67 and can be used in outdoor applications.

Lucoled Plus BL16 modules are available in several colour temperatures.

SPECIFICATIONS

- Dimensions 10.3x15.3x7.8mm
- Warranty 5 years (first 2 years extended)
- Beam angle: 160º
- Can be cut between every unit
- UL, CE and RoHS compliant
- Narrow white binning
- Constant Current Technology
- Operating temperature -25~+80C

LUMINOUS INTENSITY DISTRIBUTION

| UL | CE | RoHS | 1 LED | Injection Molding Device | DC 12V | IP 67 | 5 Years |
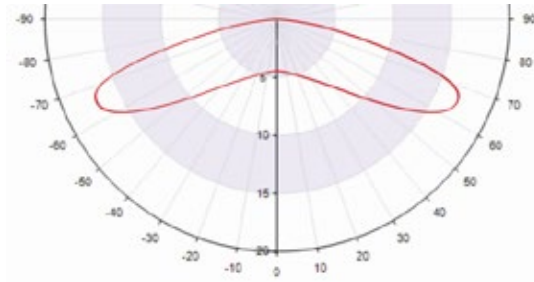
Item no	LED colour	CT (K)	CRI	Power (W/mod)	Flux (lm/mod)	Efficacy (lm/W)	Voltage (DC)	Modules per chain	Modules per carton
BL16-W35	white	3500	>70	0.30	30	100	12	50	5600
BL16-W71	white	7100	>70	0.24	32	133	12	50	5600
BL16-R	red	n.a.	>70	0.30	12	40	12	50	5600

DIMENSIONS
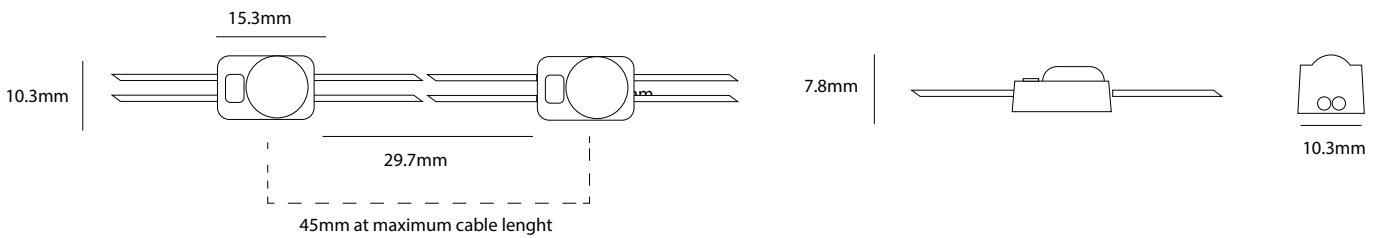
10.3mm

15.3mm

29.7mm

45mm at maximum cable lenght

7.8mm

10.3mm

POWER SUPPLY CAPACITY 12V SERIES

Item	PP1230	PP1260	PP12100	PP12150	PP12200
Power Output	30W	60W	100W	150W	200W
BL16 modules / power supply	112	225	375	562	750
Number of chains (maximum 50 modules per chain)	3	4	8	12	15

PACKAGING

Item	Qty (pcs/bag)	Qty (bag / carton)	Total Qty (pcs / carton)	Total weight (kg)	Carton size (LxWxH) in mm
BL16	400	14	5600	11.8	530 x 380 x 280

LUCOLED BL20

- *5 years warranty*
  First 2 years extended warranty
- *Smallest 2 LED module*
- *Lucolense technology*
- *Narrow white binning*
- *Bend-And-Stay wiring*

Lucoled Plus BL20 modules offer a high quality and efficient backlit solution for small face lit channel letters with a depth from 20 to 60 mm.

Lucoled Plus BL20 modules are IP67 and are easy to install due to the VHB tape with a peel-off lip and special Bend-And-Stay wiring that keeps its position once bent.

Lucoled Plus BL20 is the best solution for very narrow and small, face lit, channel letters, including 3D printed versions.

SPECIFICATIONS

- Dimensions 8.5x13.3x7.8mm
- Warranty 5 years (first 2 years extended)
- Beam angle: 155º
- Can be cut between every unit
- UL, CE and RoHS compliant
- Narrow white binning
- Constant Current Technology
- Operating temperature -25~+60C
- 3M VHB tape
- Bend-And-Stay PVC wires

LUMINOUS INTENSITY DISTRIBUTION
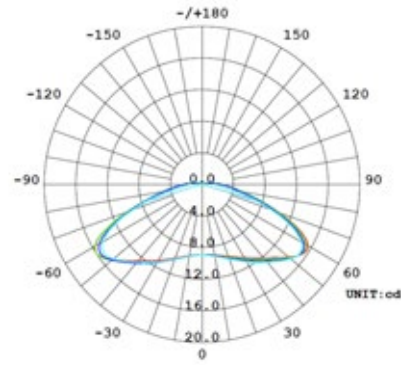
UL	CE	RoHS	2 LEDS	Injection Molding Device	DC 12V	IP 67	5 Years

Item no	LED colour	CT (K)	CRI	Power (W/mod)	Flux (lm/mod)	Efficacy (lm/W)	Voltage (DC)	Modules per chain	Modules per carton
BL20-W65	white	6500	>80	0.28	30	107	12	50	6000

DIMENSIONS
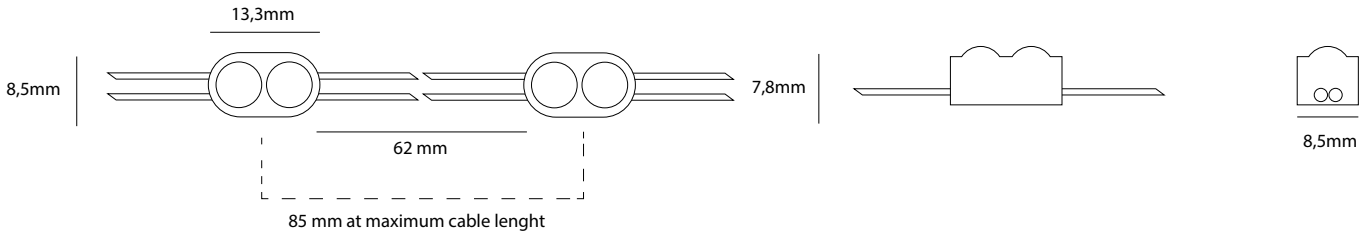
13,3mm

8,5mm

62 mm

7,8mm

8,5mm

85 mm at maximum cable lenght

POWER SUPPLY CAPACITY 12V SERIES

Item	PP1230	PP1260	PP12100	PP12150	PP12200
Power Output	30W	60W	100W	150W	200W
BL20 modules / power supply	96	193	321	482	643
Number of chains (maximum 50 modules per chain)	2	3	7	9	12

PACKAGING

Item	Qty (pcs/bag)	Qty (bag / carton)	Total Qty (pcs / carton)	Total weight (kg)	Carton size (LxWxH) in mm
BL20	500	12	6000	n.a.	n.a.

LUCOLED BL31

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

Lucoled Plus BL31 modules offer a high quality and efficient backlit solution for lightboxes with a depth of 100-300 mm.

Using the latest Top-Tier LED technology and high quality patented optics Lucoled Plus BL31 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 125 mm deep only 9 modules per square meter are used at maximum wire spacing, making installation very fast and less labour intensive. Using only 32,4 W per square meter also the number of power supplies needed is strongly reduced.

SPECIFICATIONS

- Dimensions 169x32x10mm
- Warranty 5 years (first 2 years extended)
- Beam angle: 170º
- Can be cut between every unit
- UL, CE and RoHS compliant
- Narrow white binning
- Constant Current Technology
- Operating temperature -25~+60C

LUMINOUS INTENSITY DISTRIBUTION

| UL | CE | RoHS | 3 LEDS | Injection Molding Device | DC 12V | IP 65 | 5 Years |
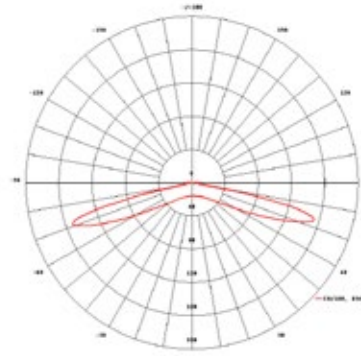
Item no	LED colour	CT (K)	CRI	Power (W/mod)	Flux (lm/mod)	Efficacy (lm/W)	Voltage (DC)	Modules per chain	Modules per carton
BL31-W30	white	3000	>70	3.6	350	97	12	16	320
BL31-W65	white	6500	>70	3.6	350	97	12	16	320

DIMENSIONS
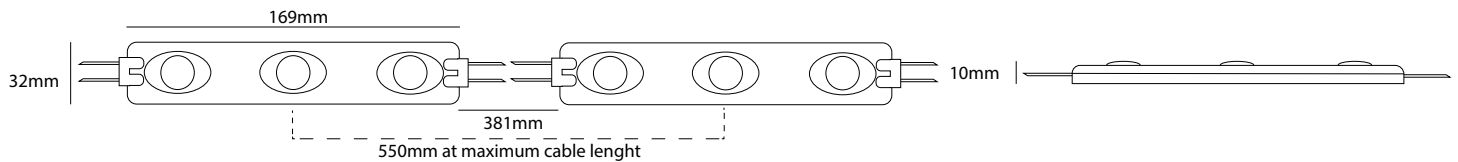
169mm · 32mm · 381mm · 550mm at maximum cable lenght · 10mm

Light box depth (mm)	Space between modules (mm)	Installing density (pcs/m2)	Surface luminance range (cd/m²)
dz=100	dx=300, dy=250	13	900-1100
dz=150	dx=300, dy=500	7	400-450
dz=200	dx=300, dy=700	5	250-300
dz=250	dx=350, dy=900	3	160-180
dz=300	dx=350, dy=1100	3	160-180
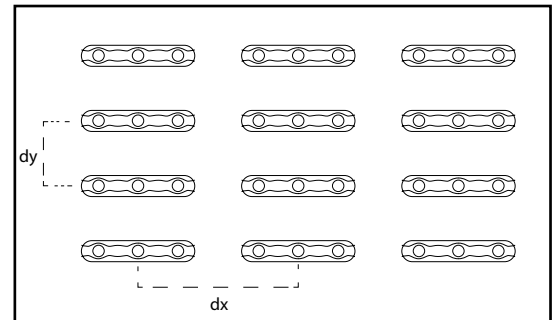
Results may vary depending on face material properties. The data above was obtained using 3mm thick opaque acrylic with a 54% light transmittance. Lucoled advises to paint the inside of the box/letters in a matt white colour for achieving an optimal result. Always test before production.

POWER SUPPLY CAPACITY 12V SERIES

Item	PP1230	PP1260	PP12100	PP12150	PP12200
Power Output	30W	60W	100W	150W	200W
BL31 modules / power supply	7	14	24	36	48
Number of chains (maximum 16 modules per chain)	1	1	2	3	4

PACKAGING

Item	Qty (pcs/bag)	Qty (bag / carton)	Total Qty (pcs / carton)	Total weight (kg)	Carton size (LxWxH) in mm
BL31	32	10	320	20.1	528 x 376 x 272

LUCOLED BL36-RGBW

- *5 years warranty*
- *Lucolense wide beam technology*
- *RGBW True white technology*

Lucoled Plus BL36-RGBW modules offer a high quality backlit solution for colour changing or custom colour channel letters and lightboxes with a depth of 80 – 250 mm.

Using the latest 4-in-1 package RGBW technology the modules can create a true white, as it contains a separate white LED. By adding white to the RGB mix it is possible to accurately match any colour desired and make pastel and lighter colours more vibrant. The special optics provide optimal mixing of the individual colours and make it possible to use the modules in shallow applications.

Lucoled Plus BL36-RGBW ccan be controlled by all available control systems in the market, offering maximum flexibility for your projects.

SPECIFICATIONS

- Dimensions 78x178x11mm
- Warranty 5 years
- Beam angle: 160°
- Can be cut between every unit
- UL, CE and RoHS compliant
- Constant Current Technology
- Operating temperature -25°~+60°C
- R = 625 nm, G = 525 nm, B = 470 nm
- W = 6500K

LUMINOUS INTENSITY DISTRIBUTION
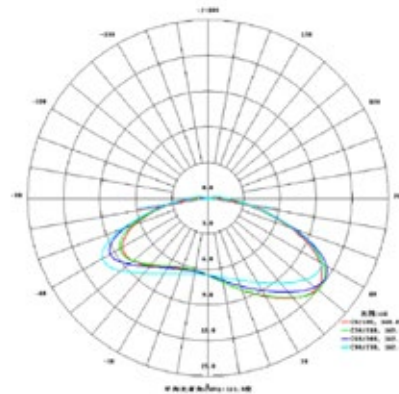
| UL | CE | RoHS | 3 LEDS | Injection Molding Device | DC 12V | IP 65 | 5 Years |

Item no	LED colour	CT (K)	CRI	Power (W/mod)	Flux (lm/mod)	Voltage (DC)	Modules per chain	Modules per carton
BL36-RGBW	RGBW	RGBW (W=6500)	>75	1.02 (RGBW on)	R8 G16 B4 W26	12	20	640

DIMENSIONS
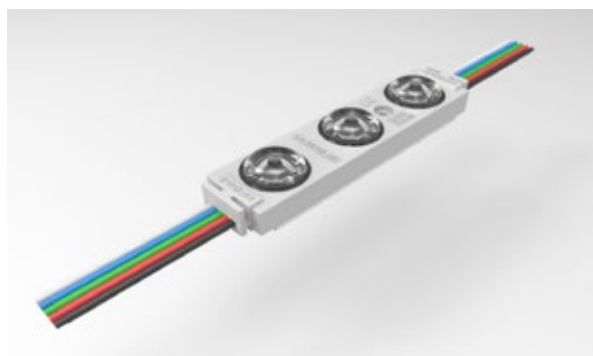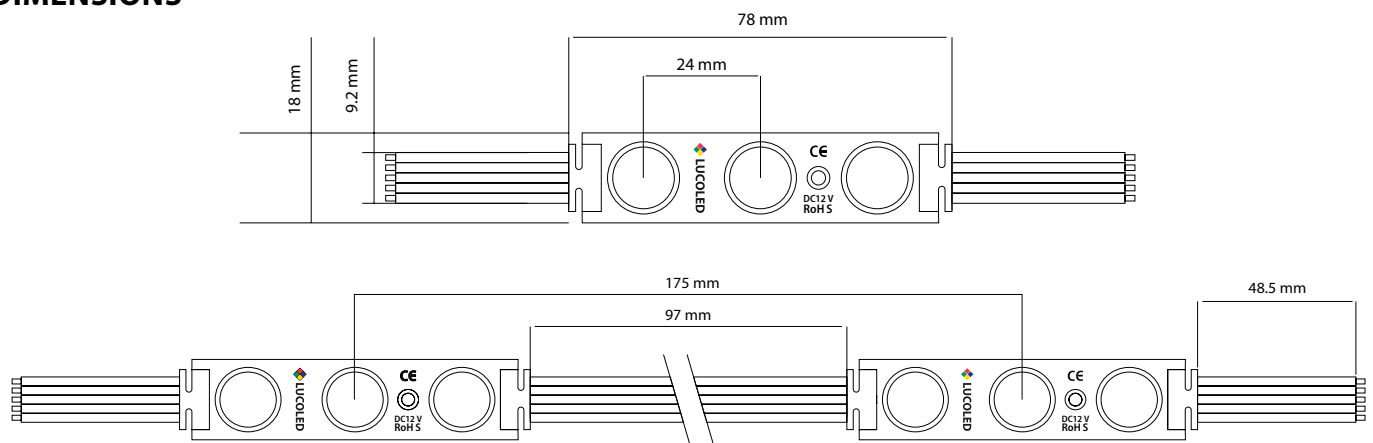
18 mm 9.2 mm 78 mm 24 mm

175 mm 97 mm 48.5 mm

POWER SUPPLY CAPACITY 12V SERIES

Item	PP1230	PP1260	PP12100	PP12150	PP12200
Power Output	30W	60W	100W	150W	200W
BL36 modules / power supply (RGBW all on)	27	54	90	135	180
Number of chains (maximum 20 modules per chain)	1	2	4	6	9

PACKAGING

Item	Qty (pcs/bag)	Qty (bag / carton)	Total Qty (pcs / carton)	Total weight (kg)	Carton size (LxWxH) in mm
BL35-RGBW	40	16	640	16.1	528x 378 x 272

LUCOLED BL37-RGBDC
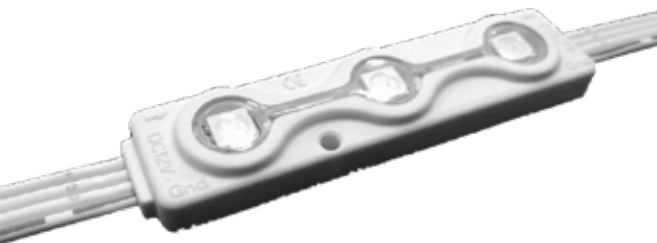
- *5 years warranty*
- *RGB Dot Controllable (SPI)*
- *Control IC: WS2811 (UCS512B3)*

Lucoled Plus BL37-RGBDC modules offer a high quality dynamic backlit solution for colour changing or custom colour channel letters and lightboxes with a depth of 100 – 250 mm.

The BL37-RGBDC modules can be individually controlled. This way dynamic lightboxes or logo's can be created with animated effects or even low resolution video.

Lucoled Plus BL37-RGBDC can be controlled by many industry standard DMX/SPI control systems in the market, offering maximum flexibility for your projects.

SPECIFICATIONS

- Dimensions 67x16x8mm
- Warranty 5 years
- Beam angle: 120º
- Can be cut between every unit
- UL, CE and RoHS compliant
- SPI(DMX512) control IC WS2811
- Operating temperature -25º~+55ºC
- R = 620 nm, G = 510 nm, B = 460 nm

LUMINOUS INTENSITY DISTRIBUTION
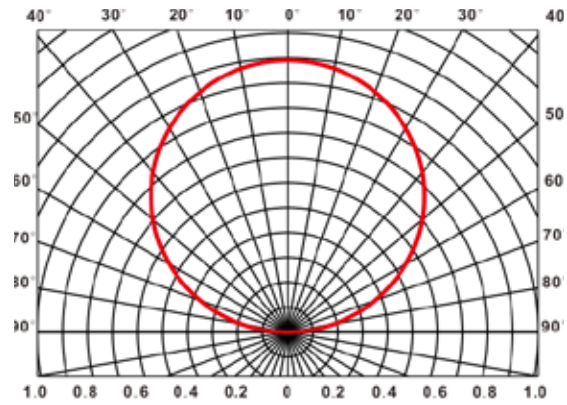
| UL | CE | RoHS | 3 LEDS | Injection Molding Device | DC 12V | IP 65 | 5 Years |

Item no	LED colour	CT (K)	CRI	Power (W/mod)	Flux (lm/mod)	Voltage (DC)	Modules per chain	Modules per carton
BL37-RGBDC	RGB	-	-	0.72 W (RGB on)	R6 G16 B4	12	20	1280

DIMENSIONS
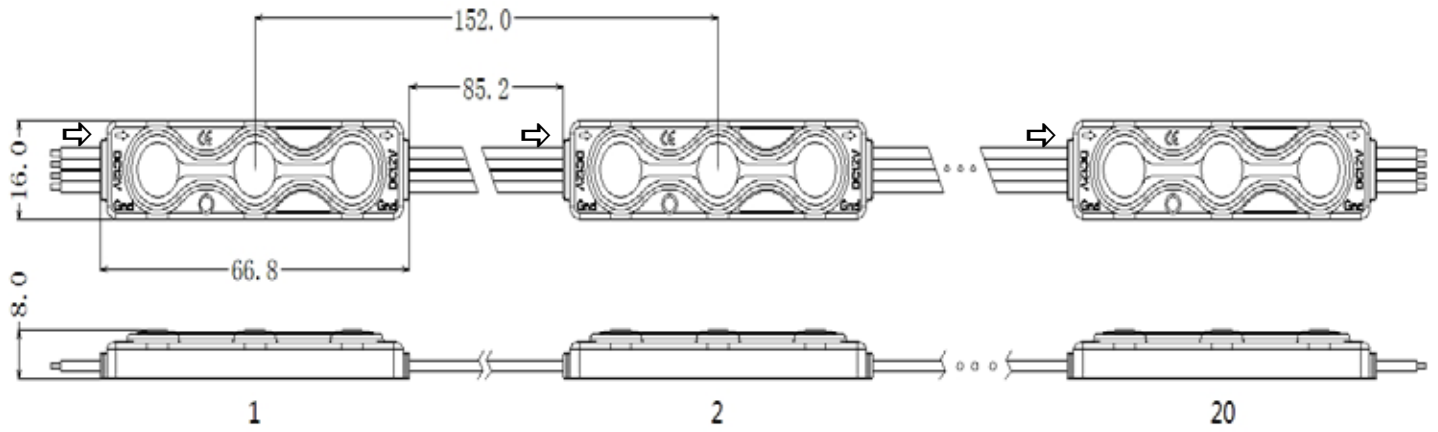
Dataflow ⇒

+ 12V
DAT
GND
GND 12 V

POWER SUPPLY CAPACITY 12V SERIES

Item	PP1230	PP1260	PP12100	PP12150	PP12200
Power Output	30W	60W	100W	150W	200W
BL37 modules / power supply (RGB all on)	37	74	125	187	250
Number of chains (maximum 20 modules per chain)	1	3	4	9	12

PACKAGING

Item	Qty (pcs/bag)	Qty (bag / carton)	Total Qty (pcs / carton)	Total weight (kg)	Carton size (LxWxH) in mm
BL37-RGBDC	80	16	1280	16.6	528x 378 x 272

LUCOLED BL71
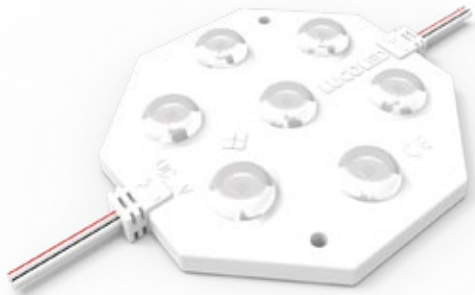
- *5 years warranty*
  First 2 years extended warranty
- *Lucolense wide beam technology*
- *High efficacy*
- *Constant Current Technology*
- *Narrow white binning*

Lucoled Plus BL71 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 BL71 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. Using only 28 W per square meter also the number of power supplies needed is strongly reduced.

SPECIFICATIONS

- Dimensions 100x90x10mm
- Warranty 5 years (first 2 years extended)
- Beam angle: 160º
- Can be cut between every unit
- UL, CE and RoHS compliant
- Narrow white binning
- Constant Current Technology
- Operating temperature -25~+60C

LUMINOUS INTENSITY DISTRIBUTION

| UL | CE | RoHS | 7 LEDS | Injection Molding Device | DC 24V | IP 65 | 5 Years |
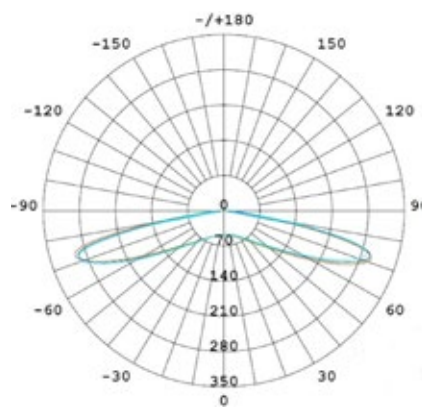
Item no	LED colour	CT (K)	CRI	Power (W/mod)	Flux (lm/mod)	Efficacy (lm/W)	Voltage (DC)	Modules per chain	Modules per carton
BL71-W65	white	6500	>70	7.0	850	121	24	10	80

DIMENSIONS
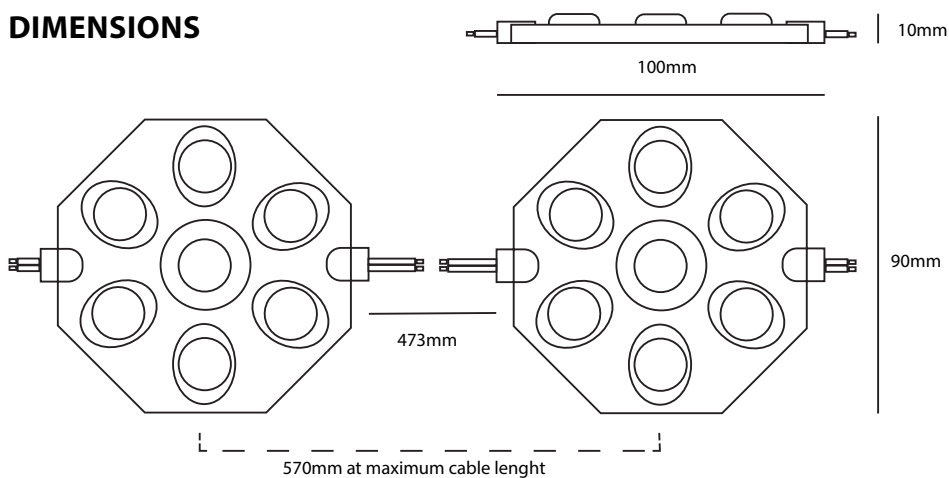
100mm

10mm

90mm

473mm

570mm at maximum cable lenght

Light box depth (mm)	Space between modules (mm)	Installing density (pcs/m2)	Surface luminance range (cd/m²)
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
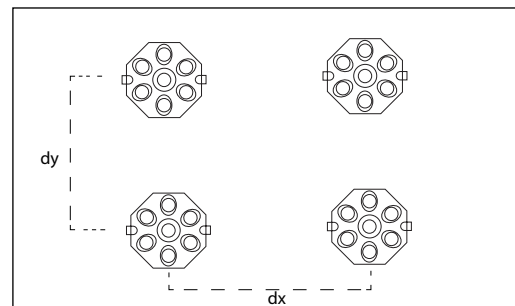
Results may vary depending on face material properties. The data above was obtained using 3mm thick opaque acrylic with a 54% light transmittance. Lucoled advises to paint the inside of the box/letters in a matt white colour for achieving an optimal result. Always test before production.

POWER SUPPLY CAPACITY 24V SERIES

Item	PP2430	PP2460	PP24100	PP24150	PP24200
Power Output	30W	60W	100W	150W	200W
BL71 modules / power supply	3	7	13	19	25
Number of chains (maximum 10 modules per chain)	1	1	2	2	3

PACKAGING

Item	Qty (pcs/bag)	Qty (pcs / carton)	Total Qty (pcs / carton)	Total weight (kg)	Carton size (LxWxH) in mm
BL71	20	80	160	15.3	528 x 376 x 272

LUCOLED BLI

- *5 years warranty*
- *Lucolense prismatic flat beam technology*
- *High efficacy*
- *Constant Current Technology*
- *Narrow white binning*

Lucoled BLI LED bars offer a high quality and efficient backlit solution for very shallow lightboxes down to 30 mm deep.

The BLI series comes in 3 lengths, each simply cuttable to fit your lightbox. The whole system is equipped with connectors and comes with a pre wired connection system, making it a plug-and-play installation.

The BLI series uses the latest reimagined flat beam prism lens technology, reducing the number of LED's required for an even illumination and thus also reducing required power per square meter to only 57 W/m2. This while offering 6.798 lumen per square meter, 120 lm/W efficiency, giving a bright and efficient result at reduced total cost of ownership.

SPECIFICATIONS

- 2835 SMD LED with long life and low attenuation
- Easy installation with connectors and prewired cable harness, plug and play.
- Warranty 5 years
- Beam angle: 170º
- Cuttable every 2 LEDs
- UL, CE and RoHS compliant
- Narrow white binning
- Constant Current Technology
- Operating temperature -25~+60C

## LUMINOUS INTENSITY DISTRIBUTION

| UL | CE | RoHS | **2** LEDS | bare board series | **DC 24V** | **IP 20** | **5** Years |
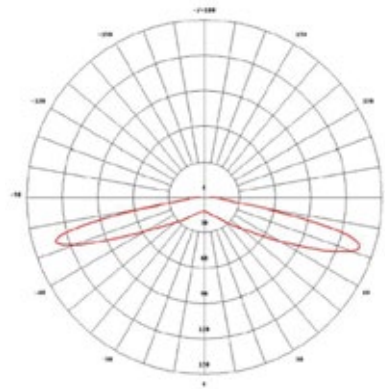
Item no	LED colour	CT (K)	CRI	Power (W/mod)	Flux (lm/mod)	Efficacy (lm/W)	Voltage (DC)	Modules in series	Modules per BLI-CON	Modules per carton
BLI20-W65	white	6500	>70	0.86	101	118	24	24	180	210
BLI60-W65	white	6500	>70	2.6	312	120	24	8	60	180
BLI140-W65	white	6500	>70	6	720	120	24	4	30	300

ACCESSORIES

Item no	Description
BLI-CON	BLI cable assembly, 1.5m, 12 connections, every 10cm.
BLI-FCON	BLI power flying leads with female connector
BLI-MCON	BLI power flying leads with male connector
BLI-JCT-300	BLI junction cable male-female 300mm

BLI-CON

DIMENSIONS

80mm — 495mm — 80mm
19mm
BLI60-W65
83.6mm

45mm — 1160mm — 45mm
19mm
BLI140-W65
165mm
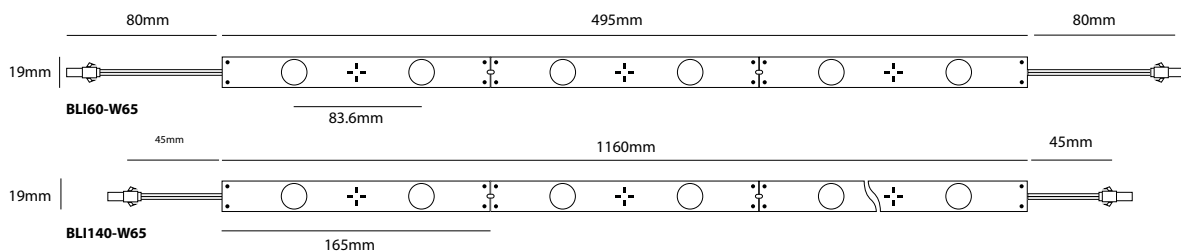
Light box depth (mm)	row distance (mm)
30 - 60mm	80mm
60 - 80mm	90mm
80 - 100mm	100mm
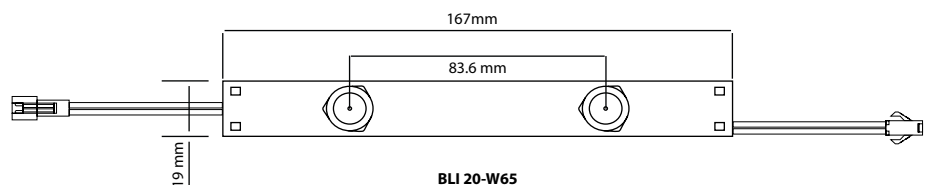
167mm
83.6 mm
19 mm
BLI 20-W65

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	PP24100	PP24150	PP24200
Power Output	30W	60W	100W	150W	200W
BLI 20 modules / power supply	30	60	68	104	138
BLI 60 modules / power supply	10	20	34	52	69
BLI140 modules / power supply	4	9	15	22	30

PACKAGING

Item	Qty (pcs/bag)	Qty (bags / carton)	Total Qty (pcs / carton)	Total weight (kg)	Carton size (LxWxH) in mm
BLI20-W65	10	20	200	4.2	358x256x244
BLI60-W65	9	20	180	9.2	570x340x250
BLI140-W65	10	30	300	30.0	1220x340x250
BLI-CON	30	1	30	5	400x300x150

LUCOLED DS80

- *5 years warranty*
- *Lucolense prismatic flat beam technology*
- *High efficacy*
- *Constant Current Technology*
- *Narrow white binning*
- *Easy installation*

Lucoled DS80 offers a high quality and efficient back lighting solution for double sided lightboxes and pylons.

The DS80 is installed in an aluminium mounting profile that is mounted into the sign by easy to install mounting clips. The mounting profile can be cut to size and comes in 3 standard lengths.

The DS80 has an industry leading efficiency of 165 lumen per Watt. In a typical pylon the DS80 can be installed with 400 mm row and module spacing due to the use of flat beam prism lenses. This reduces the energy consumption to less than 22 Watt per square meter per side. Still offering almost 3.600 lumen per square meter per side.

SPECIFICATIONS

- Dimensions 155x38x11 mm
- Warranty 5 years
- Beam angle: 170⁰
- Can be cut between every unit
- UL, CE and RoHS compliant
- Narrow white binning
- Constant Current Technology
- Operating temperature -25~+60C
- Easy installation using aluminium profiles and clips
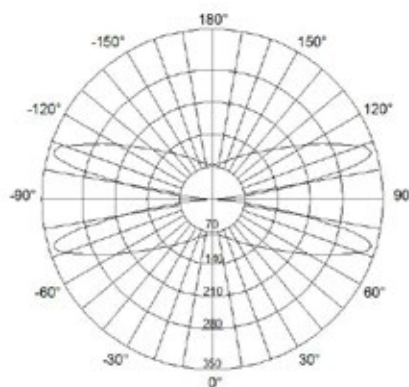
UL	CE	RoHS	**16** LEDS	Injection Molding Device	**DC 24V**	**IP 67**	**5** Years

LUMINOUS INTENSITY DISTRIBUTION

Item no	LED colour	CT (K)	CRI	Power (W/mod)	Flux (lm/mod)	Efficacy (lm/W)	Voltage (DC)	Modules in series	Modules per carton
DS80-W65	white	6500	>70	4.8	792	165	24	20	400
OS80-W65	white	6500	>70	2.4	396	165	24	40	400

ACCESSORIES

Item no	Description
DS-MC	DS mounting clip, bag of 100
DS-MP-100	DS mounting profile, 1m, bag of 10
DS-MP-200	DS mounting profile, 2m, bag of 10
DS-MP-300	DS mounting profile, 3m, bag of 10

DIMENSIONS

155mm

245mm

400mm at maximum cable lenght

38mm

11mm

mounting clip

mounting profile

38,5mm

12,5mm

18mm

10mm

11mm
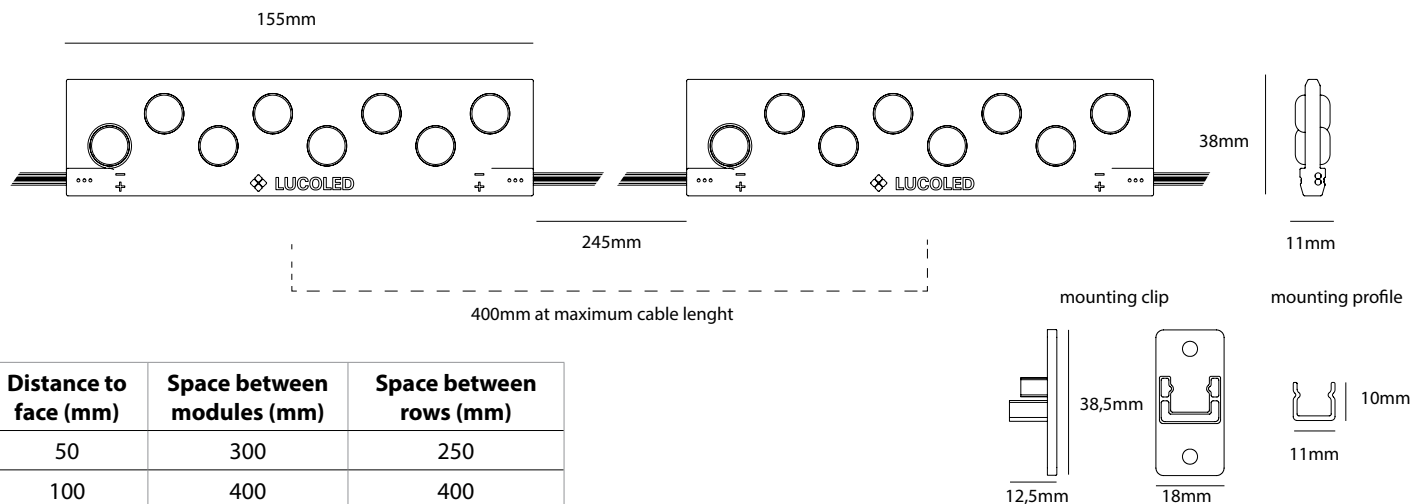
Distance to face (mm)	Space between modules (mm)	Space between rows (mm)
50	300	250
100	400	400
150	350	450
200	300	450

POWER SUPPLY CAPACITY 24V SERIES

Item	PP2460	PP24100	PP24150	PP24200
Power Output	60W	100W	150W	200W
DS80 modules / power supply	12	18	28	36
OS80 modules / power supply	24	36	56	72

PACKAGING

Item	Qty (pcs/bag)	Qty (bags / carton)	Total Qty (pcs / carton)	Total weight (kg)	Carton size (LxWxH) in mm
DS80/OS80	20	20	400	25.6/13.0	528x376x272

LUCOLED EL10
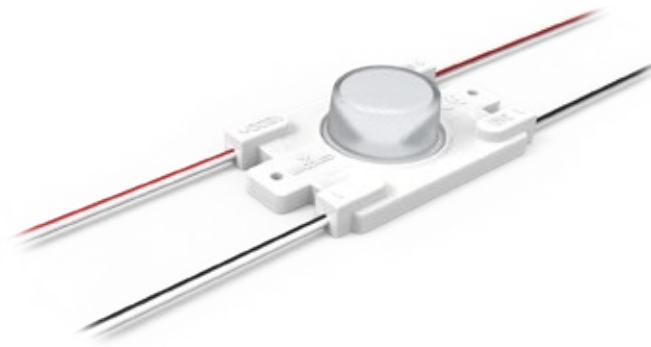
- *5 years warranty*
  First 2 years extended warranty
- *Lucolense narrow beam technology*
- *High efficacy*
- *Constant Current Technology*
- *Narrow white binning*

Lucoled Edge Lighting EL10 modules offer a high quality and efficient solution for single-sided signs with a depth of 80-150 mm and double-sided signs with a depth of 80-150 mm, max. 1000 mm wide.

Lucoled EL10 uses patented light reflection technology to evenly illuminate single and double-sided small light boxes and signs. The licensed technology is based on the face being illuminated by over 70% indirect, internally reflecting, light transmitted by narrow beam flare lenses. The modules are mounted on the sides of the box, directing a beam of light at the opposite side. The reflecting light evenly illuminates the face.

EL10 is ideal for round, oval or any other non-rectangular shaped sign as the individual modules can be positioned following the shape of the sides.

SPECIFICATIONS

LUMINOUS INTENSITY DISTRIBUTION

- • Dimensions 50x30x14mm
- • Warranty 5 years (first 2 years extended)
- • Beam angle: 19º * 32º
- • Can be cut between every unit
- • UL, CE and RoHS compliant
- • Narrow white binning
- • Constant Current Technology
- • Operating temperature -25~+60C

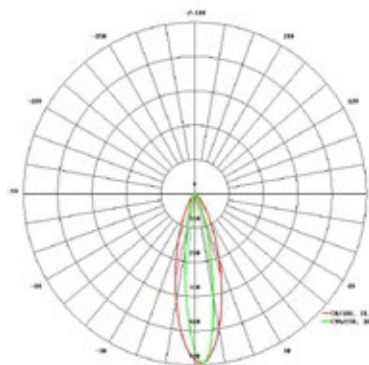| UL | CE | RoHS | **1** LEDS | Injection Molding Device | **DC** **12V** | **IP** **65** | **5** Years |

Item no	LED colour	CT (K)	CRI	Power (W/mod)	Flux (lm/mod)	Efficacy (lm/W)	Voltage (DC)	Modules per chain	Modules per carton
EL10-W30	white	3000	>70	1.6	160	100	12	25	600
EL10-W65	white	6500	>70	1.6	160	100	12	25	600

DIMENSIONS
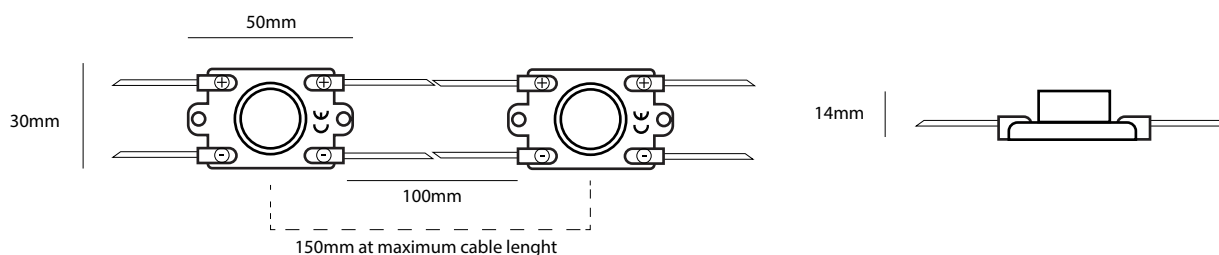
50mm

30mm

14mm

100mm

150mm at maximum cable lenght

POWER SUPPLY CAPACITY 12V SERIES

Item	PP1230	PP1260	PP12100	PP12150	PP12200
Power Output	30W	60W	100W	150W	200W
EL10 modules / power supply	16	33	56	84	112
Number of chains (maximum 25 modules per chain)	1	2	3	4	5

PACKAGING

Item	Qty (pcs/bag)	Qty (bag / carton)	Total Qty (pcs / carton)	Total weight (kg)	Carton size (LxWxH) in mm
EL10	50	12	600	10,5	528 x 376 x 272
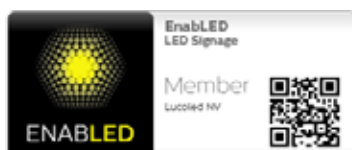
This product is licensed under the Signify (formerly Philips) EnabLED Signage program when bought as a kit including power supply. The final product in which this kit is used will be covered by this license and free from further royalties.

LUCOLED EL31

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

Lucoled Edge Lighting EL31 modules offer a high quality and efficient solution for single-sided lightboxes with a depth of 50-100 mm and double-sided lightboxes with a depth of 100-150 mm, max. 1000 mm wide.

Lucoled EL31 uses patented light reflection technology to evenly illuminate single and double-sided medium size light boxes and signs. The licensed technology is based on the face being illuminated by over 70% indirect, internally reflecting, light transmitted by narrow beam flare lenses. The modules are mounted on the sides of the box, directing a beam of light at the opposite side. The reflecting light evenly illuminates the face.

EL31 is ideal for medium size rectangular shaped signs. The individual modules are normally positioned on opposite sides on the longest side of the sign.

SPECIFICATIONS

- Dimensions 120x23x11mm
- Warranty 5 years (first 2 years extended)
- Beam angle: 18º * 25º
- Can be cut between every unit
- UL, CE and RoHS compliant
- Narrow white binning
- Constant Current Technology
- Operating temperature -25~+60C

LUMINOUS INTENSITY DISTRIBUTION

UL CE RoHS **3** LEDS Injection Molding Device **DC 12V** **IP 65** **5** Years
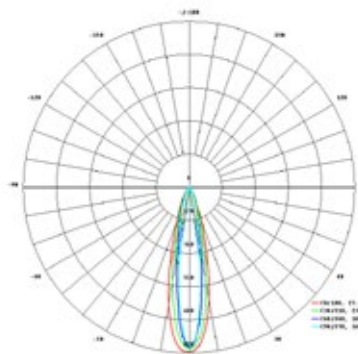
Item no	LED colour	CT (K)	CRI	Power (W/mod)	Flux (lm/mod)	Efficacy (lm/W)	Voltage (DC)	Modules per chain	Models per carton
EL31-W30	white	3000	>70	2.88	327	114	12	20	480
EL31-W40	white	4000	>70	2.88	327	114	12	20	480
EL31-W65	white	6500	>70	2.88	327	114	12	20	480

DIMENSIONS
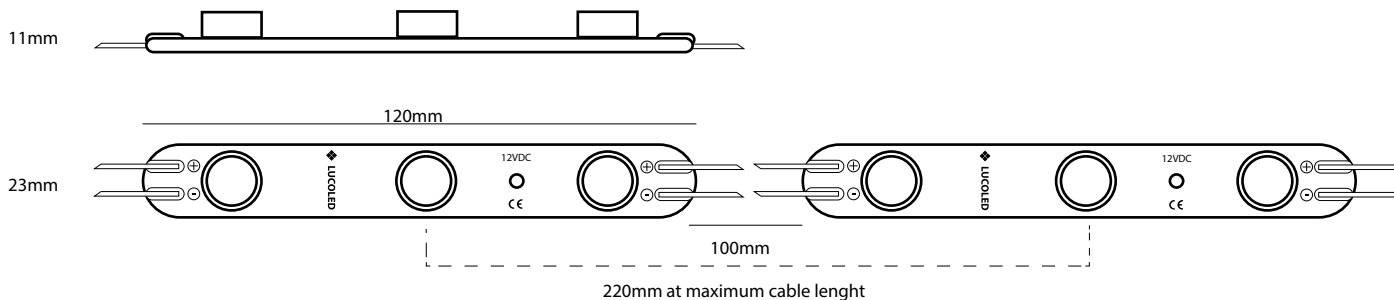
11mm

120mm

23mm

12VDC LUCOLED CE

12VDC LUCOLED CE

100mm

220mm at maximum cable lenght

POWER SUPPLY CAPACITY 12V SERIES

Item	PP1230	PP1260	PP12100	PP12150	PP12200
Power Output	30W	60W	100W	150W	200W
EL31 modules / power supply	9	18	31	46	62
Number of chains (maximum 20 modules per chain)	1	1	2	3	4

PACKAGING

Item	Qty (pcs/bag)	Qty (bag / carton)	Total Qty (pcs / carton)	Total weight (kg)	Carton size (LxWxH) in mm
EL31	60	8	480	14,7	528 x 376 x 272
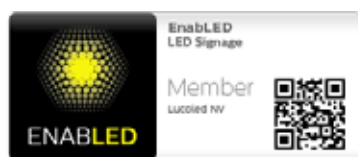
EnabLED LED Signage
Member
Lucoled NV

This product is licensed under the Signify (formerly Philips) EnabLED Signage program when bought as a kit including power supply. The final product in which this kit is used will be covered by this license and free from further royalties.

LUCOLED EL37

- *5 years warranty*
- *Lucolense narrow beam technology*
- *High efficacy*
- *Constant Current Technology*
- *Narrow white binning*
- *For illuminating 3m wide lightboxes*

Lucoled Edge Lighting EL37 modules offer a high quality and efficient solution for single-sided lightboxes with a depth of 100-120 mm and double-sided lightboxes with a depth of 100 -180 mm, max. 3000 mm wide.

Lucoled EL37 has a unique jigsaw connection system allowing the modules to be connected in such a way that a uniform LED spacing is achieved.

Lucoled EL37 uses patented light reflection technology to evenly illuminate single and double-sided large format light boxes. The licensed technology is based on the face being illuminated by over 70% indirect, internally reflecting, light transmitteed by narrow beam flare lenses. The modules are mounted on the sides of the box, directing a beam of light at the opposite side.

EL37 is ideal for large size rectangular shaped signs. The individual modules are normally positioned on opposite sides on the longest side of the sign.

SPECIFICATIONS

- Dimensions 185x30x15mm
- Warranty 5 years
- Beam angle: 10º * 40º
- Can be cut between every unit
- UL, CE and RoHS compliant
- Narrow white binning
- Constant Current Technology
- Operating temperature -25~+60C

LUMINOUS INTENSITY DISTRIBUTION

UL	CE	RoHS	**3** LEDS	Injection Molding Device	**DC 24V**	**IP 65**	**5** Years
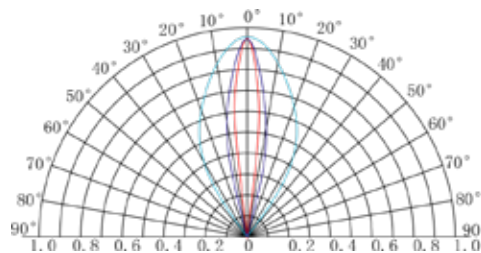
Item no	LED colour	CT (K)	CRI	Power (W/mod)	Flux (lm/mod)	Efficacy (lm/W)	Voltage (DC)	Modules per chain	Modules per carton
EL37-W65	white	6500	>75	5.9	740	125	24	20	360
EL37-W40	white	4000	>75	5.9	740	125	24	20	360

DIMENSIONS
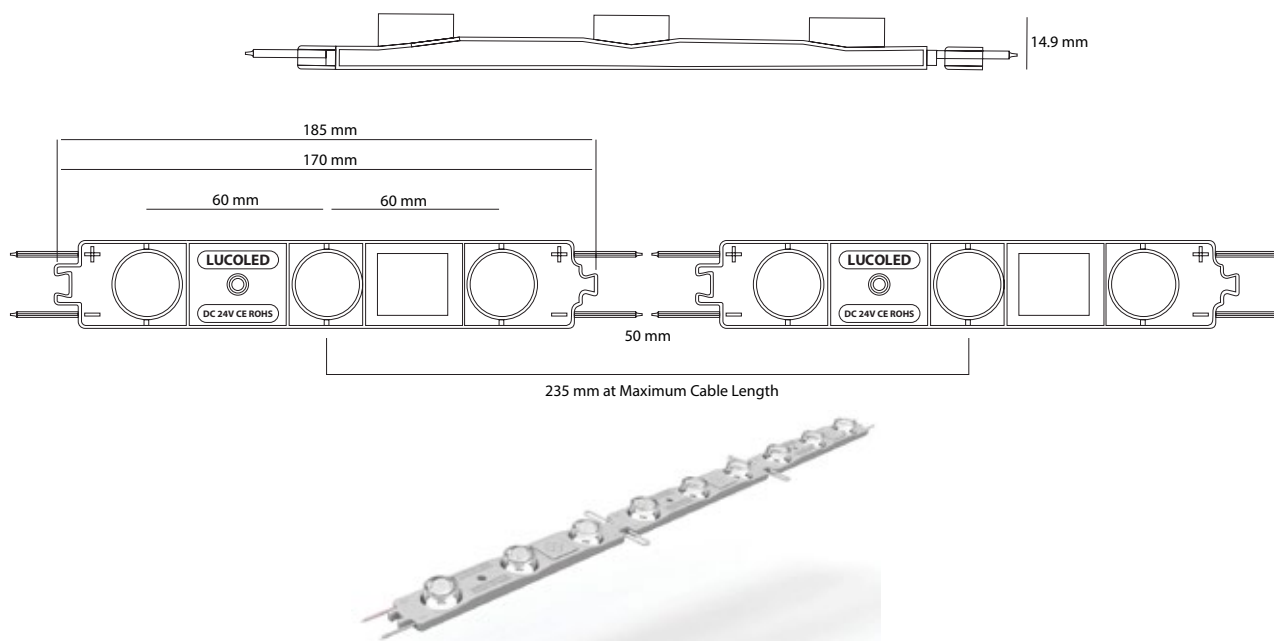
14.9 mm

185 mm
170 mm
60 mm   60 mm
50 mm

235 mm at Maximum Cable Length

POWER SUPPLY CAPACITY 24V SERIES

Item	PP2430	PP2460	PP24100	PP24150	PP24200
Power Output	30W	60W	100W	150W	200W
EL37 modules / power supply **(maximum is 20)**	4	9	15	**20**	**20**
Number of chains **(maximum 20 modules per chain)**	1	1	1	**1**	**1**

PACKAGING

Item	Qty (pcs/bag)	Qty (bags / carton)	Total Qty (pcs / carton)	Total weight (kg)	Carton size (LxWxH) in mm
EL37	20	18	360	26.5	528x376x272
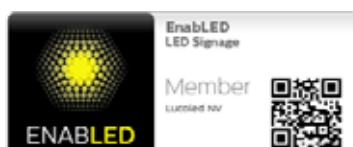
EnabLED
LED Signage

Member
Luomed NV

This product is licensed under the Signify (formerly Philips) EnabLED Signage program when bought as a kit including power supply. The final product in which this kit is used will be covered by this license and free from further royalties.

LUCOLED POWER SUPPLIES AND CONTROLS

- *Up to 7 years warranty*
- *Wide Voltage Input*
- *OVP, OCP, SCP, OTP protection function*
- *IP67 / IP68 Rating*
- *Class 2*
- *Dim option*

Lucoled offers a full range of Premium Power Supplies. The various power options help you to match the installed power capacity to the total power used by your LED installation.

Lucoled Premium Power Supplies are designed and tested for safety, long life and reliability.

All power supplies are designed for outdoor use and carry all required international agency markings.

SPECIFICATIONS 12V POWER SUPPLIES

Output Voltage	12V
Working temperature range	-40°C~+65°C
Input Voltage Range	100VAC~240VAC
Input Frquency 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 (l x w x h)	Weight
PP1260	5A	60W	0.65A/115V - 0.35A/230V	≥86%	184x44x34mm	0,52kg
PP12100	8.33A	100W	1.1A/115V - 0.55A/230V	≥90%	204x67x35mm	0,88kg
PP12150	12.5A	150W	1.6A/115V - 0.8A/230V	≥92%	234x68x35mm	1kg
PP12200	16A	200W	2.8A max	≥88%	295x60x36mm	1,1kg

SPECIFICATIONS 24V POWER SUPPLIES

Output Voltage	24V
Working temperature range	-40°C~+65°C
Input Voltage Range	100VAC~240VAC
Input Frquency 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 (l x w x h)	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
PP24100	4.16A	100W	1.1A/115V - 0.55A/230V	≥92%	204x67x35mm	0,88kg
PP24150	6.25A	150W	1.6A/115V - 0.8A/230V	≥93%	234x68x35mm	1kg
PP24200	8.34A	200W	2.8A max	≥90%	295x60x36mm	1,1kg

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.

SPECIFICATIONS 12V SLIM POWER SUPPLIES

Output Voltage	12V
Working temperature range	-25℃~+45℃
Input Voltage Range	200VAC~240VAC
Input Frquency Range	50~60Hz
Protective Characteristics	Over-Current, Short-Circuit, Over Voltage protection
IP Rating	IP67
MTBF	≥50000hrs. MIL-HDBK-217F(25℃)
Warranty	7 Years, first 2 years extended.

Code	Output Current	Output Power	Input Current	Efficiency	Size (l x w x h)	Weight
PPS1230	2.5A	30W	0.22A/200-240VAC	≥85%	239x35x20mm	0,32kg
PPS1260	5A	60W	0.38A/200-240VAC	≥87%	295x35x20mm	0,42kg
PPS12100	8.3A	100W	0.7A/200-240VAC	≥90%	309x35x20mm	0,44kg
PPS12150	12.5A	150W	1.6A/200-240VAC	≥90%	309x35x23mm	0,46kg

SPECIFICATIONS 24V SLIM POWER SUPPLIES

Output Voltage	24V
Working temperature range	-25℃~+45℃
Input Voltage Range	200VAC~240VAC
Input Frquency Range	50~60Hz
Protective Characteristics	Over-Current, Short-Circuit, Over Voltage protection
IP Rating	IP67
MTBF	≥50000hrs. MIL-HDBK-217F(25℃)
Warranty	7 Years, first 2 years extended.

Code	Output Current	Output Power	Input Current	Efficiency	Size (l x w x h)	Weight
PPS2430	1.25A	30W	0.22A/200-240VAC	≥85%	239x35x20mm	0,32kg
PPS24100	4.16A	100W	0.7A/200-240VAC	≥90%	309x35x20mm	0,44kg

SPECIFICATIONS SLIM SHORT POWER SUPPLIES

Output Voltage	12V
Working temperature range	-25℃~+45℃
Input Voltage Range	200VAC~240VAC
Input Frquency Range	50~60Hz
Protective Characteristics	Over-Current, Short-Circuit, Over Voltage protection
IP Rating	IP67
MTBF	≥50000hrs. MIL-HDBK-217F(25℃)
Warranty	7 Years, first 2 years extended.

Code	Output Voltage	Output Current	Output Power	Input Current	Efficiency	Size (l x w x h)	Weight
PPXS1230	12 V	2.5A	30W	0.22A/200-240VAC	≥85%	183x35x20mm	0,25kg
PPXS1260	12 V	5A	60W	0.38A/200-240VAC	≥87%	183x35x20mm	0,25kg
PPXS12100	12 V	8.3A	100W	0.7A/200-240VAC	≥90%	209x35x20mm	0,32kg
PPXS12150	12 V	12.5A	150W	1.6A/200-240VAC	≥90%	256x35x20mm	0,39kg
PPXS24100	24 V	4.2A	100W	0.7A/200-240VAC	≥90%	209x35x20mm	0,32kg

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.

SPECIFICATIONS 12V SLIM DIMMABLE POWER SUPPLIES

Output Voltage	12V
Working temperature range	-25°C~+45°C
Input Voltage Range	200VAC~240VAC
Input Frquency Range	50~60Hz
Protective Characteristics	Over-Current, Short-Circuit, Over Voltage protection
IP Rating	IP67
MTBF	≥50000hrs. MIL-HDBK-217F(25°C)
Warranty	7 Years
Dim Input (0-100%)	0=10 V, PWM, Resistance

Code	Output Current	Output Power	Input Current	Efficiency	Size (l x w x h)	Weight
PPDS12100	4.16A	100W	0.7A/200-240VAC	≥90%	258x35x20mm	0,40kg

SPECIFICATIONS MANUAL EXTERNAL DIMMING OPTION

Input/Output Voltage	12V – 24V
Working temperature range	0°C~+45°C
Output Current Max Range	8 A
IP Rating	IP20
Warranty	3 Years
Diming Method (0-100%)	PWM

Code	Output Current	Output Power 12 V	Output Power 24 V
DIM-PS	8 A	96 W	192 W

SPECIFICATIONS 12V SLIM CLASS II POWER SUPPLIES

Output Voltage	12V
Working temperature range	-25°C~+45°C
Input Voltage Range	200VAC~240VAC
Input Frquency Range	50~60Hz
Protective Characteristics	Over-Current, Short-Circuit, Over Voltage protection
IP Rating	IP67
MTBF	≥50000hrs. MIL-HDBK-217F(25°C)
Warranty	7 Years
Isolation	Double-Isolated CLASS II

Code	Output Current	Output Power	Input Current	Efficiency	Size (l x w x h)	Weight
PPS1260CLII	5A	60W	0.38A/200-240VAC	≥87%	295x35x20mm	0,42kg

SPECIFICATIONS RF RGB(W) & DIM CONTROL OPTIONS

Input/Output Voltage   12V – 24V
Working temperature range   -30°C~+55°C
IP Rating   IP20
Warranty   5 Years
Diming method (0-100%)   PWM

Code	Output	Output Current	Output Power 12 V	Output Power 24 V
LTECH-M3/M3-3A	RGB	3x3 A	108 W	216 W
LTECH-M6/M3-3A	RGB	3x3 A	108 W	216 W
LTECH-M4/M4-5A	RGBW	4x5 A	144 W	288 W
LTECH-M8/M4-5A	RGBW	4x5 A	144 W	288 W
LTECH-M1/M3-3A	MONO	3x3 A	108 W	216 W

SPECIFICATIONS DMX RGBW & DIM CONTROL OPTIONS

Input/Output Voltage   12V – 24V
Working temperature range   -30℃~+55℃
IP Rating   IP20
Warranty   5 Years
Diming method (0-100%)   PWM

Code	Output		Input	Output Current	OutputPower 12 V	Output Power 24 V
LTECH-LT-820-5A	RGBW	Controller	DMX	4x5 A	240 W	480 W
LTECH-LT-854-5A	RGBW	Controller	DMX	4x5 A	240 W	480 W
LTECH-LT-811-12A	MONO	Controller	DMX	1x12A	144 W	288 W
LTECH-EX1S	DMX	Touch Panel	Manual			
LTECH-EX4S	DMX	Touch Panel	Manual			
LTECH-UX8	DMX	Touch Panel 4 Zones	Manual/WIFI/RF			
LTECH-LM-150-12-G1M2	12 V	Power Supply	DMX	12.5 A	150 W	-
LTECH-LM-150-24-G1M2	24 V	Power Supply	DMX	6.25 A	-	150 W

SPECIFICATIONS 1-10V CONTROL OPTIONS

Input/Output Voltage   12V – 24V
Working temperature range   -30℃~+55℃
IP Rating   IP20
Warranty   5 Years
Diming method (0-100%)   PWM

Code	Output		Output Current	Output Power 12 V	Output Power 24 V
LTECH-E610	1-10 V	Knob Panel	-	-	-
LTECH-LT-701-6A	MONO	Dimmer	1x6 A	72 W	144 W
LTECH-LT-701-12A	MONO	Dimmer	1x12A	144 W	288 W
LTECH-LM-75-12-G1A2	12 V	Power Supply	6.25 A	75 W	-
LTECH-LM-150-12-G1A2	12 V	Power Supply	12.5 A	150	-

SPECIFICATIONS DALI CONTROL OPTIONS

Input/Output Voltage   12V – 24V
Working temperature range   -30℃~+55℃
IP Rating   IP20
Warranty   5 Years
Diming method (0-100%)   PWM

Code	Output		Input	Output Current	OutputPower 12 V	Output Power 24 V
LTECH-LT-401-12A	MONO	Controller	DALI	1x12A	144 W	288 W
LTECH-LT-411-12A	MONO	Controller DIN rail	DALI	1x12A	144 W	288 W
LTECH-LM-150-24-G1D2	24 V	Power Supply	DALI	12.5 A	-	150 W
LTECH-LM-75-12-G1D2	12 V	Power Supply	DALI	6.25 A	75 W	-
LTECH-LM-75-24-G1D2	24 V	Power Supply	DALi	6.25 A	-	75 W

SPECIFICATIONS WIFI RGBW CONTROL OPTIONS

Input/Output Voltage   12V – 24V
Working temperature range   -30°C~+55°C
IP Rating   IP20
Warranty   5 Years
**Diming method (0-100%)**   PWM

Code	Output		Input	Output Current	OutputPower 12 V	Output Power 24 V
LTECH-WIFI-101	DMX	Controller	WIFI (APP)			
LTECH-WIFI-104	RGBW	Controller	RF/WIFI	4x4 A	192 W	384 W
LTECH-WIFI-106	RGBW	Controller	RF/WIFI	4x4 A	192 W	384 W
LTECH-F4-5A	RGBW	Receiver	RF (WIFI-106)	4x5 A	240 W	480 W
LTECH-R4-5A	RGBW	Receiver	RF (WIFI-104)	4x5 A	240 W	480 W
LTECH-EBOX-DMX	DMX	Bridge	RF (WIFI-106)			
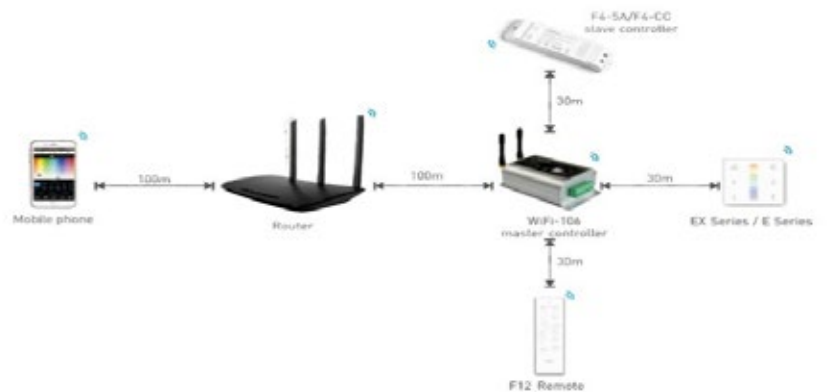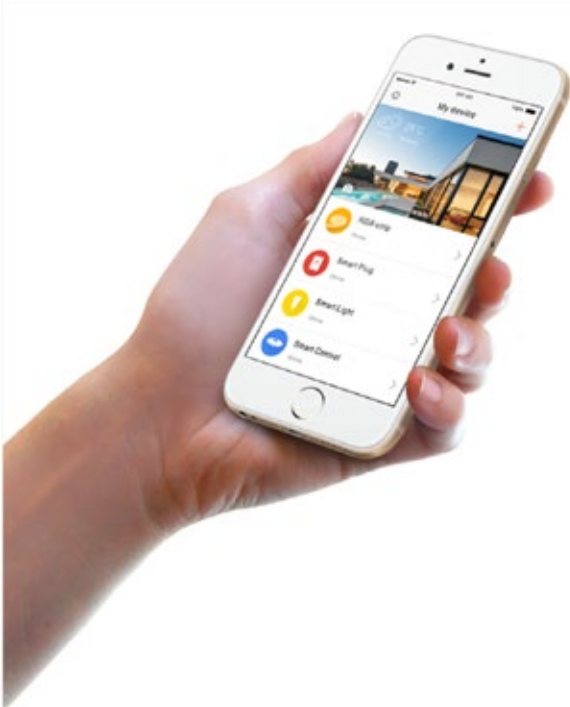
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