

OptiKa[®] CR

SIGNAGE - Backlighting ————— 70 - 140 —

High efficiency module in CRystal housing



7 YEARS
70.000hrs
L70

- Good efficiency: 180 lm/W
- Smart regulation
- As stable and durable as crystal
- Different intensities to choose: 70 lumens/mod x 100 modules and 140 lumens/mod x 50 modules

OptiKa[®] CR

SIGNAGE - Backlighting

70



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7 YEARS
70.000hrs
L70



IP67



150°



100 MOD.
MAX. IN SERIES



CUTTABLE
EVERY 1 MOD.



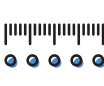
NO NEED



24V



CC



6 TO 10
Mod./M



20 TO 50
Mod./M²

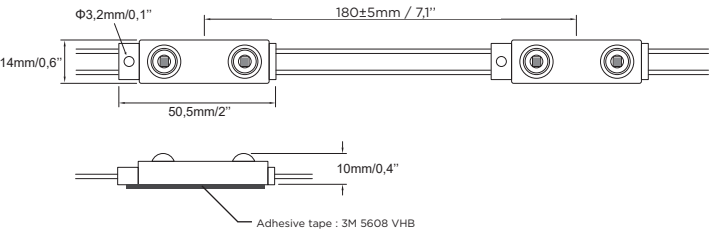


-30/+50°C

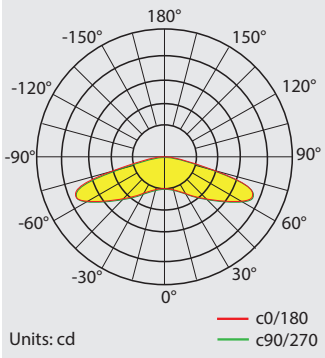
TECHNICAL DATA

Code	Designation	ColorTemp / wavelength		Typical power/ mod (W)	Lumen output (lm/mod)	Efficiency (lm/W)	Modules / chain	Module distance - axe to axe (mm / in)
22020096	OptiKa 70 CR2 OW 100mod 180mm 0,4W 24V IP67	○ OW	7000-8000K	0,39	70	180	100	180±5 / 7,1"
22020097	OptiKa 70 CR2 WDL 100mod 180mm 0,4W 24V IP67	○ WDL	6140-6855K	0,39	70	180	100	180±5 / 7,1"
20021550	OptiKa 70 CR2 NW 100mod 180mm 0,4W 24V IP67	○ NW	3830-4180K	0,39	70	180	100	180±5 / 7,1"
20021551	OptiKa 70 CR2 WW 100mod 180mm 0,4W 24V IP67	○ WW	2954-3120K	0,39	70	180	100	180±5 / 7,1"
22020110	OptiKa 70 CR2 R 100mod 180mm 0,4W 24V IP67	● R	623-628nm	0,39	20	51	100	180±5 / 7,1"
22020111	OptiKa 70 CR2 G 100mod 180mm 0,4W 24V IP67	● G	520-525nm	0,39	25	64	100	180±5 / 7,1"
22020112	OptiKa 70 CR2 B 100mod 180mm 0,4W 24V IP67	● B	465-470nm	0,39	5	13	100	180±5 / 7,1"

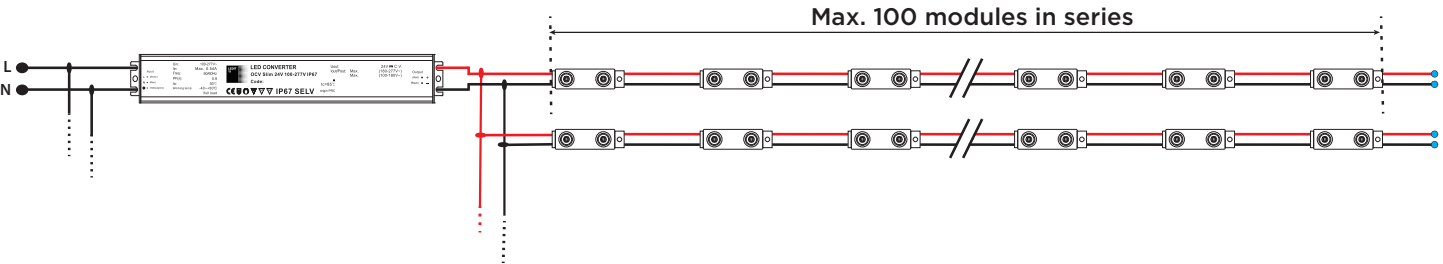
DIMENSIONS



LIGHT DISTRIBUTION



WIRING DIAGRAM





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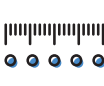
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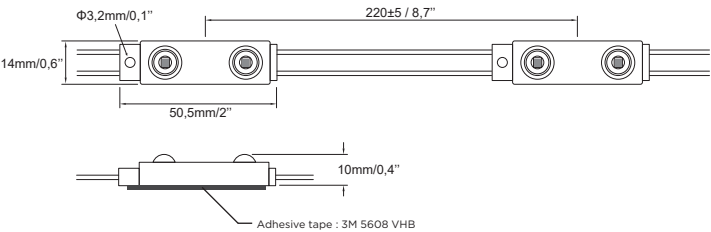


-30/+50°C

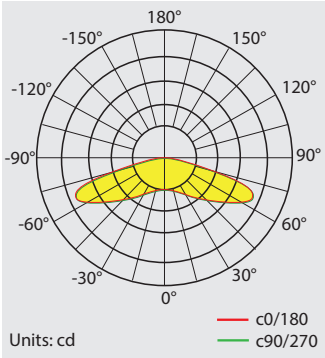
TECHNICAL DATA

Code	Designation	ColorTemp / wavelength		Typical power/ mod (W)	Lumen output (lm/mod)	Efficiency (lm/W)	Modules / chain	Module distance - axe to axe (mm / in)
22020098	OptiKa 140 CR2 OW 2x50mod 220mm 0,8W 24V IP67	○ OW	7100-8100K	0,78	140	180	50	220±5 / 8,7"
22020099	OptiKa 140 CR2 WDL 2x50mod 220mm 0,8W 24V IP67	○ WDL	6300-6950K	0,78	140	180	50	220±5 / 8,7"

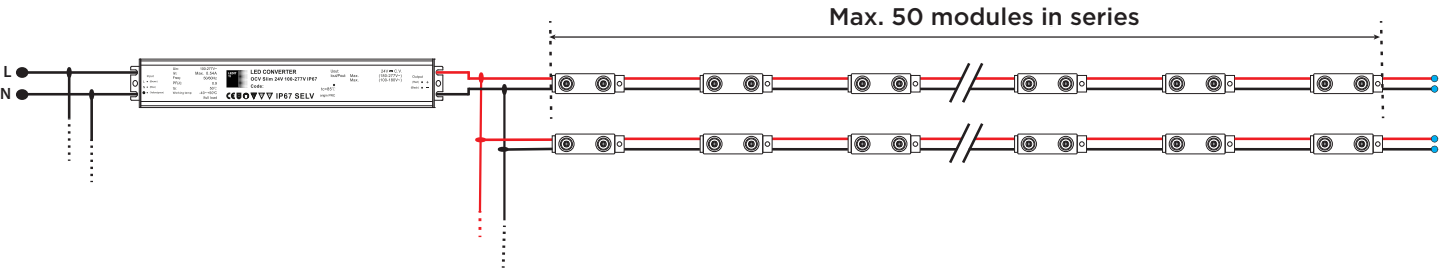
DIMENSIONS



LIGHT DISTRIBUTION



WIRING DIAGRAM



INGRESS PROTECTION IP67

“Inbuilt LED module” for Indoors or Outdoors.

The specified environmental protection of the LED module enclosure means that it is protected against dust ingress and water immersion up to 1m deep.

The certification requires products to pass a test 30min long at 1m depth. After 30min of submersion, the product could start to be affected or damaged.

Make sure that the application of the LED modules has proper drain holes for water to exit so that modules and any other electronic component are not submerged exceeding the IP67 certification limits.

NORMS & CERTIFICATES

- ▶ EN 55015:2019+A11:2020
- ▶ EN 61547:2009
- ▶ EN IEC 61000-3-2:2019+A1:2021
- ▶ EN 61000-3-3:2013+A1:2019



APPLICATION

- ▶ Always connect the LED modules to the power supply while it is OFF. Only then you can connect the power supply to electricity and turn it ON.
- ▶ Respect the maximum number of modules in a row.
- ▶ Check compatibility between LED and driver voltage.
- ▶ Install LED on a clean work station connected to the earth. All LEDs are sensitive to static electricity (ESD).
- ▶ Limit the cable length between LED and power supply (voltage drop).
- ▶ Do not make direct pressure on LED chip, this could damage the internal connection.
- ▶ Secure LED module lines with mechanical fixation (screws, glue ...) in addition to the adhesive tape.

THERMAL BEHAVIOUR

The temperature limits indicated below are expressed in °C, at full load, after 3h of operation conditions, with natural convection:

- ▶ Operation temperature T_a -20°C to +50°C
- ▶ Storage temperature T_s -20°C to +85°C

The life of the module will decrease when the maximum temperature limits are exceeded.

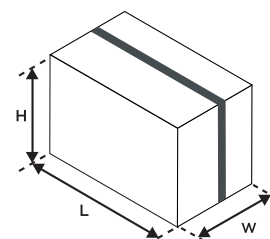
Operating for a continuous extended time at temperatures exceeding the maximum limits, the modules can fail and our warranty will be void.

FAILURE RATE

Our LED system has a max failure rate of 0.2% per 1000 operating hours.

PACKAGING

Type	Size L x W x H (cm)	Size L x W x H (ft)	Weight (kg)	Weight (lb)	Units (chain)
OptiKa 70 CR2	36,5 x 35,5 x 27,5	1,2 x 1,2 x 0,9	11	24,2	10
OptiKa 140 CR2	36,5 x 35,5 x 27,5	1,2 x 1,2 x 0,9	11,7	25,8	20



(When the min and max values are not indicated, the tolerance range for optical and electrical data is $\pm 15\%$.)