

OptiKa[®] CR2

SIGNAGE - Backlighting

All our knowledge
combined in this module
with CRystal housing



Guaranteed luminous
efficiency up to 180 lm/W
and energy savings.

Excellent CRI for NW and
WW: 95 (Ra 9 : 95)

7 YEARS
70.000hrs
L70



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Reduced cable axe-to-axe

Reduced cable axe-to-axe for better installation.

Efficiency

Luminous efficiency up to 180lm/W and power requirement of only 0.39W/mod.

IC Regulator

Integrated IC regulator prevents voltage drops and therefore poor uniform lighting despite a large number of modules per chain (5-10%).

3M adhesive tape

The choice of quality 3M adhesive.

Transparent housing

Transparent housing for improved luminous flux.

165° optics

Professional optics make this module highly versatile for a multitude of applications.

EPREL - Class C

Product classification according to EPREL (European Product Registry for Energy Labelling):



Humanized detail design

The side with screw holes is designed to be tilted at 5°, not completely horizontal. It does not affect the application with tape. And when you mounted with screws, it will not warp the other end of the module, because the thickness of the tape just makes up the gap, leave the module in a horizontal state.

K·LINE



OptiKa® CR

7 YEARS
70.000hrs
L70



IP67



165°



100 MOD.
MAX. IN SERIES



CUTTABLE
EVERY 1 MOD.



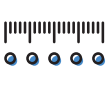
NO NEED



24V



CC



6 TO 10
MOD./ML



20 TO 50
MOD./M²

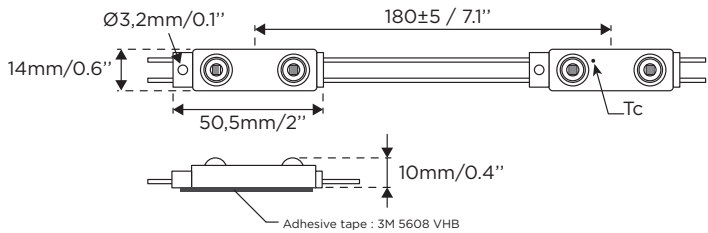


-30/+50°C

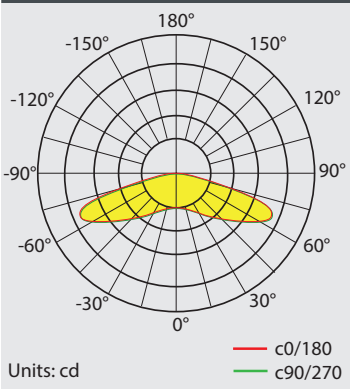
TECHNICAL DATA

Code	Designation	ColorTemp / wavelength	CRI	Typical power/ mod (W)	Lumen output (lm/mod)	Efficiency (lm/W)	Modules / chain	Module distance - axe to axe (mm / in)
22020117	OptiKa 35 CR2 OW 100mod 180mm 0,2W 24V IP67	○ OW 7000-8000K	>70	0,195	35	179	100	180±5 / 7,1"
22020118	OptiKa 35 CR2 WDL 100mod 180mm 0,2W 24V IP67	○ WDL 6140-6855K	>70	0,195	35	179	100	180±5 / 7,1"

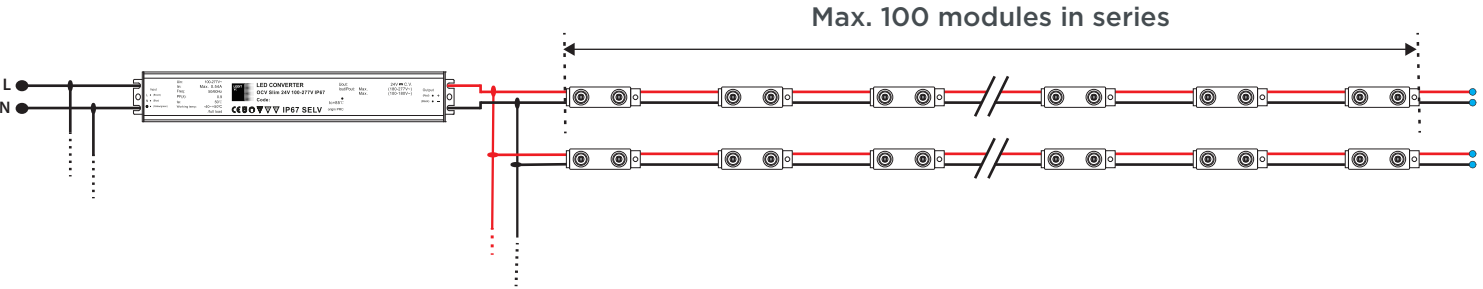
DIMENSIONS



LIGHT DISTRIBUTION



WIRING DIAGRAM



OptiKa[®] CR2

SIGNAGE - Backlighting

70



OptiKa[®] CR

7 YEARS
70.000hrs
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IP67



165°



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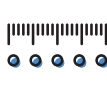
NO NEED



24V



CC



6 TO 10
MOD./ML



20 TO 50
MOD./M²



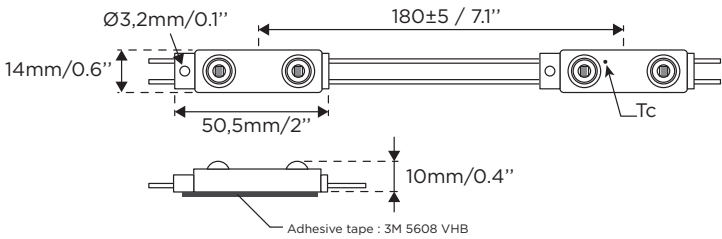
-30/+50°C

TECHNICAL DATA

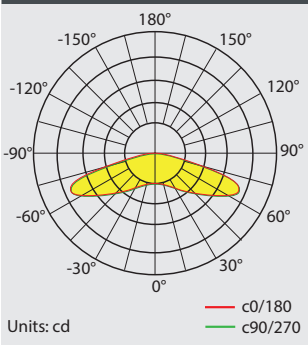
Code	Designation	ColorTemp / wavelength	CRI	Typical power/mod (W)	Lumen output (lm/mod)	Efficiency (lm/W)	Modules / chain	Module distance - axe to axe (mm / in)
22020096	OptiKa 70 CR2 OW 100mod 180mm 0,4W 24V IP67	○ OW 7000-8000K	75	0,39	70	180	100	180±5 / 7,1"
22020097	OptiKa 70 CR2 WDL 100mod 180mm 0,4W 24V IP67	○ WDL 6140-6855K	75	0,39	70	180	100	180±5 / 7,1"
22020113	OptiKa 70 CR2 NW 940 100mod 180mm 0,4W 24V IP67	○ NW 3800-4200K	95 (Ra 9 : 95)	0,39	65	167	100	180±5 / 7,1"
22020114	OptiKa 70 CR2 WW 930 100mod 180mm 0,4W 24V IP67	○ WW 2900-3200K	95 (Ra 9 : 95)	0,39	60	154	100	180±5 / 7,1"
22020110	OptiKa 70 CR2 R 100mod 180mm 0,4W 24V IP67	● R 623-628nm	-	0,3	15	50	100	180±5 / 7,1"
22020111	OptiKa 70 CR2 G 100mod 180mm 0,4W 24V IP67	● G 520-525nm	-	0,3	31	104	100	180±5 / 7,1"
22020112	OptiKa 70 CR2 B 100mod 180mm 0,4W 24V IP67	● B 465-470nm	-	0,3	9	30	100	180±5 / 7,1"

*Operating temperature: -30°/+45°C

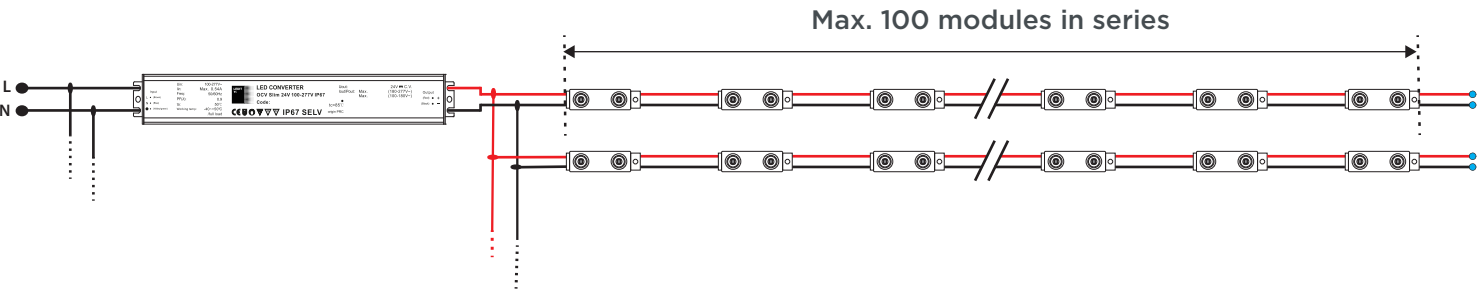
DIMENSIONS



LIGHT DISTRIBUTION



WIRING DIAGRAM



OptiKa[®] CR2

SIGNAGE - Backlighting

140



OptiKa[®] CR

7 YEARS
70.000hrs
L70



IP67



165°



50 MOD.
MAX. IN SERIES



CUTTABLE
EVERY 1 MOD.



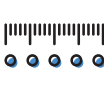
NO NEED



24V



CC



6 TO 10
MOD./ML



20 TO 50
MOD./M²



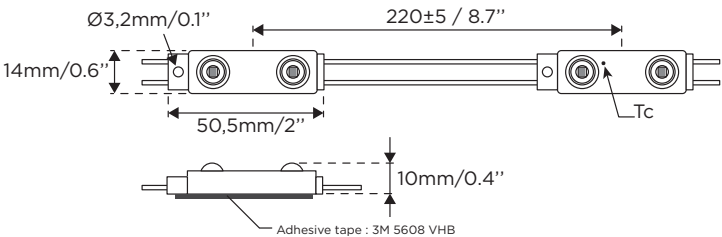
-30/+50°C

TECHNICAL DATA

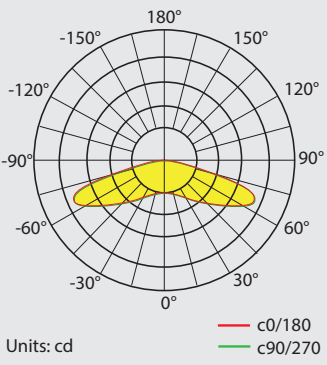
Code	Designation	ColorTemp / wavelength		CRI	Typical power/mod (W)	Lumen output (lm/mod)	Efficiency (lm/W)	Modules / chain	Module distance - axe to axe (mm / in)
22020098	OptiKa 140 CR2 OW 2x50mod 220mm 0,8W 24V IP67	○ OW	7100-8100K	75	0,78	140	180	50	220±5 / 8,7"
22020099	OptiKa 140 CR2 WDL 2x50mod 220mm 0,8W 24V IP67	○ WDL	6300-6950K	75	0,78	140	180	50	220±5 / 8,7"
22020115	OptiKa 140 CR2 NW 940 2x50mod 220mm 0,8W 24V IP67	○ NW	3800-4350K	95 (Ra 9 : 95)	0,78	126	162	50	220±5 / 8,7"
22020116	OptiKa 140 CR2 WW 930 2x50mod 220mm 0,8W 24V IP67	○ WW	2900-3200K	95 (Ra 9 : 95)	0,78	120	154	50	220±5 / 8,7"

*Operating temperature: -30°/+45°C

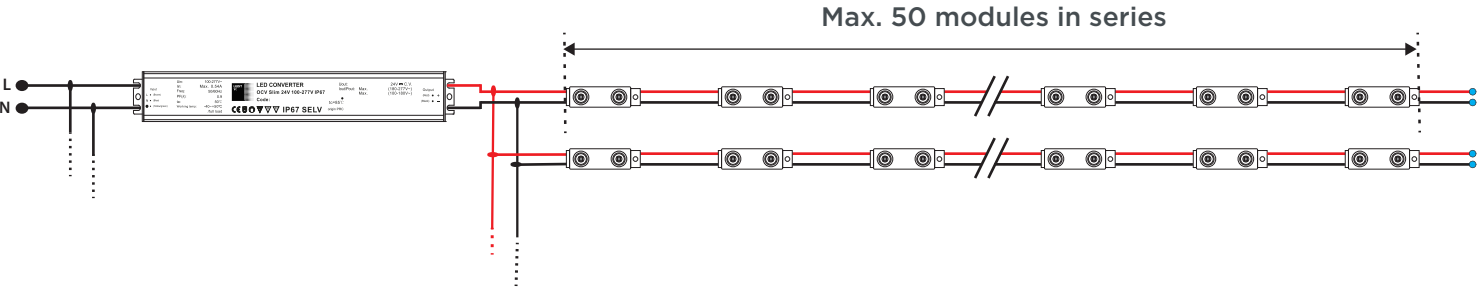
DIMENSIONS



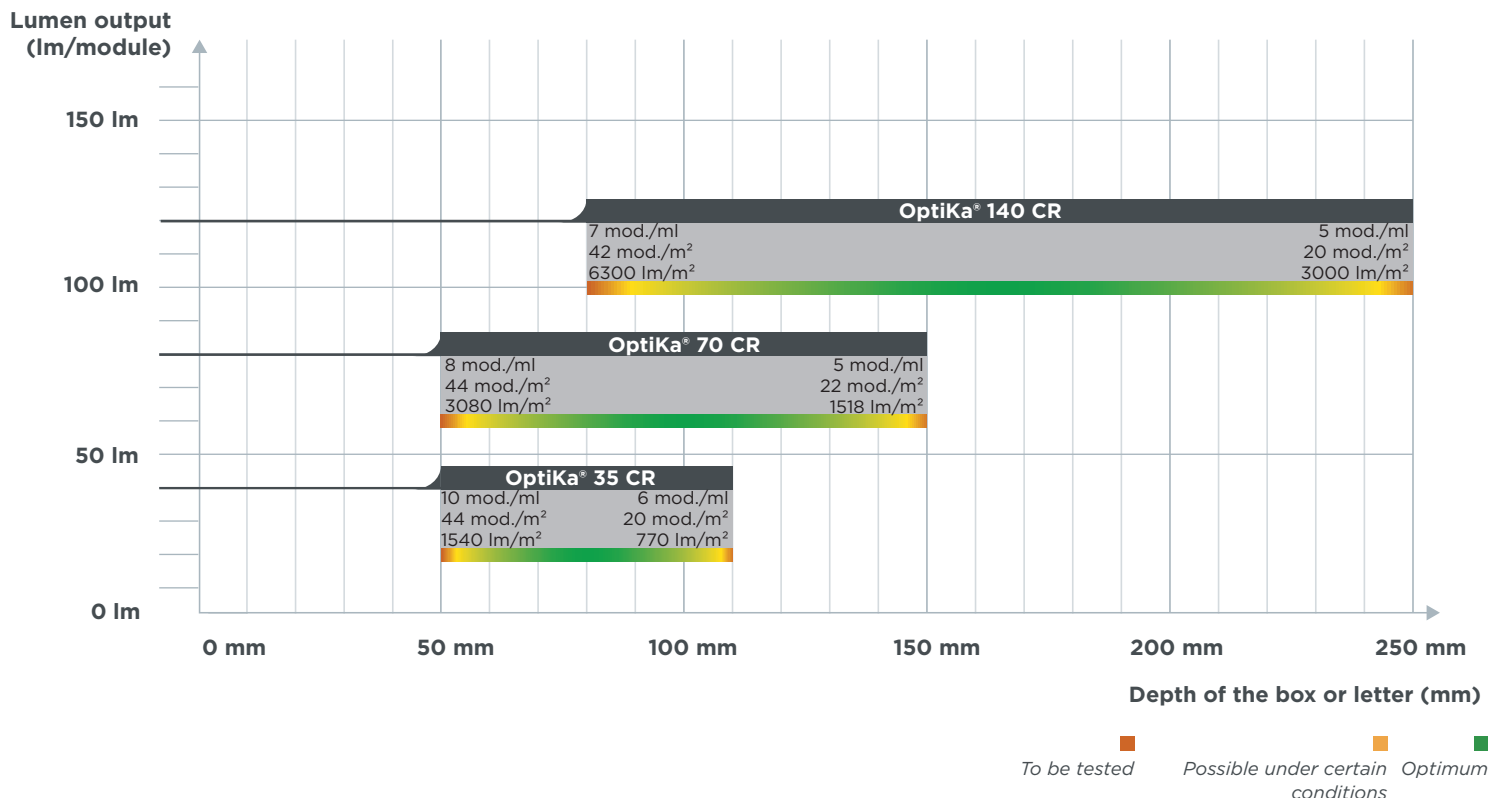
LIGHT DISTRIBUTION



WIRING DIAGRAM



APPLICATION



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.

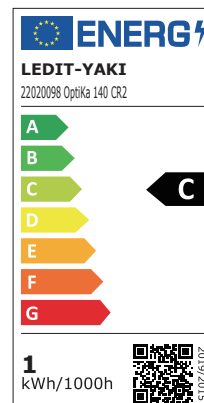
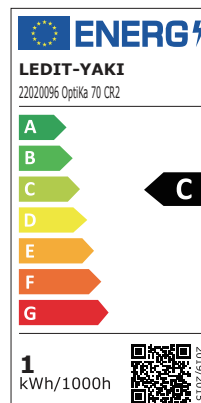
The certification requires products to pass a test 30min long at 1m depth. After 30min of submersion, the product could start to be affected or damaged.

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.

Only to be used in enclosed signage or box when installed outdoors.

NORMS & CERTIFICATES

- ▶ EN IEC 55015:2019+A11:2020
- ▶ EN IEC 61000-3-2:2019+A1:2021
- ▶ EN 61000-3-3:2013+A2:2021+AC:2022
- ▶ EN IEC 61547:2023
- ▶ EN IEC 60598-1:2021+A11:2022
- ▶ EN 60598-2-3:2003+A1:2011
- ▶ EN IEC 62031:2020+A11:2021
- ▶ EN 62493:2015+A1:2022
- ▶ EN 62471:2008



OptiKa® CR2

SIGNAGE - Backlighting

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.

FAILURE RATE

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

THERMAL BEHAVIOUR

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

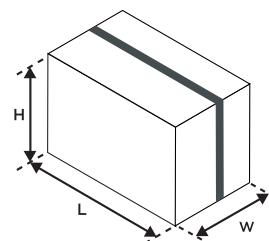
- ▶ Operation temperature Ta -20°C to +50°C
- ▶ Storage temperature Ts -20°C to +85°C
- ▶ Max. temperature Tc Max.: +106°C (OptiKa 35 70 CR2)
Tc Max.: +94°C (OptiKa 140 CR2)

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.

PACKAGING

Type	Size L x W x H (cm)	Size L x W x H (ft)	Weight (kg)	Weight (lb)	Units (chain)
OptiKa 35 CR2	36,5 x 35,5 x 27,5	1,2 x 1,2 x 0,9	11	24,2	10
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 ±15 %.)