OptiKa® HE

SIGNAGE - Backlighting — 130 - 150

Top Efficiency and Brightness module for very uniform backlit applications

5 YEARS
50.000hrs
L50

- Hyper-versatile module for depths from 70 to 250mm
- Top efficiency: up to 178lm/W
- Save on drivers, labor and energy
- Very uniform 170º optics

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OptiKa® HE
SIGNAGE - Backlighting — 130 12V

5 YEARS 50.000hrs L50

A↑G C

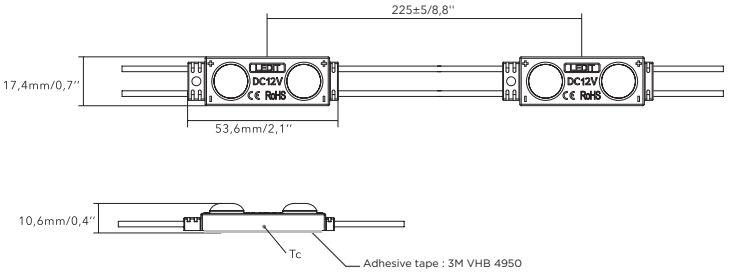
IP66 | 170° | 25 MOD. MAX IN SERIES | CUTTABLE EVERY 1 MOD. | NO NEED

12V | CC | 4 TO 7 MOD./ML | 12 TO 28 MOD./M² | -25°/+55°C

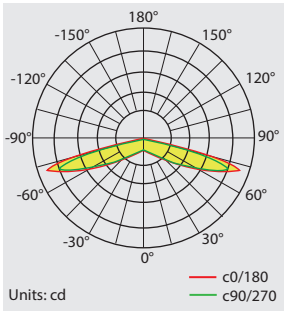
TECHNICAL DATA

Code	Designation	Color Temperature / Wavelength	CRI	Typical power/mod (W)	Lumen output (lm/module)	Efficiency (lm/W)	Mod / chain	Module distance - axe to axe (mm / in)
20880278	OptiKa 130 HE2 WDL 25mod 225mm 0,7W 12V IP66	◯ WDL 6000-7000K	70	0,7	125	178	25	225±5/8,8"

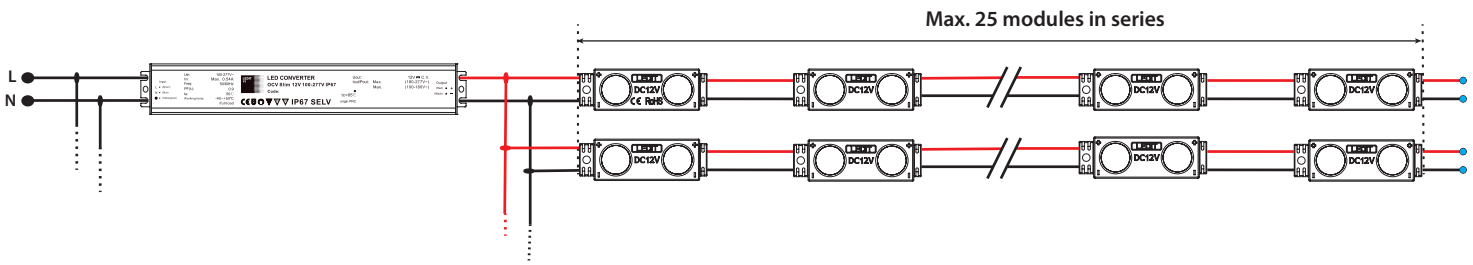
DIMENSIONS



LIGHT DISTRIBUTION



WIRING DIAGRAM



OptiKa® HE
SIGNAGE - Backlighting — 150 24V

5 YEARS 50.000hrs L50

ATG E

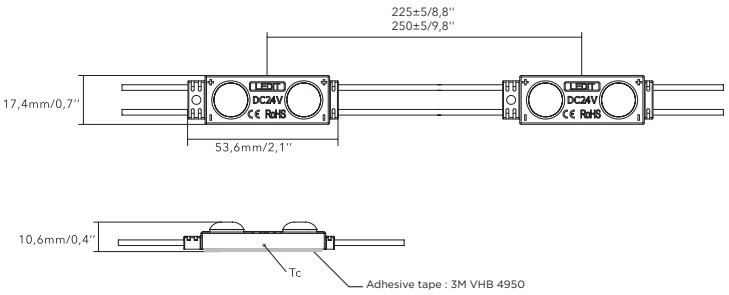
IP66 | 170° | 40 OR 80 MOD. MAX IN SERIES | CUTTABLE EVERY 1 MOD. | NO NEED

24V | CC | 4 TO 7 MOD./ML | 12 TO 28 MOD./M² | -25°/+55°C

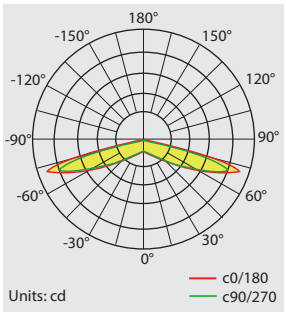
TECHNICAL DATA

Code	Designation	Color Temperature / Wavelength		CRI	Typical power/mod (W)	Lumen output (lm/module)	Efficiency (lm/W)	Mod / chain	Module distance - axe to axe (mm / in)
20880161	OptiKa 150 HE2 OW 40mod 225mm CC 1W 24V IP66	OW	7500-8000K	70	1	150	150	40	225±5/8,8''
20880162	OptiKa 150 HE2 WDL 40mod 225mm CC 1W 24V IP66	WDL	6200-7400K	70	1	150	150	40	225±5/8,8''
20880163	OptiKa 150 HE2 NW 40mod 225mm CC 1W 24V IP66	NW	3800-4500K	70	1	168	168	40	225±5/8,8''
20880164	OptiKa 150 HE2 WW 40mod 225mm CC 1W 24V IP66	WW	2700-3200K	80	1	168	168	40	225±5/8,8''
20880166	OptiKa 150 HE2 R 80mod 225mm CC 0.48W 24V IP66	R	615-625nm	-	0,48	27	56	80	225±5/8,8''
20880255	OptiKa 150 HE2 O 80mod 225mm 1W 24V IP66	O	600-610nm	-	1	11	11	80	225±5/8,8''
20880167	OptiKa 150 HE2 OW 40mod 250mm CC 1W 24V IP66	OW	7500-8000K	70	1	150	150	40	250±5/9,8''

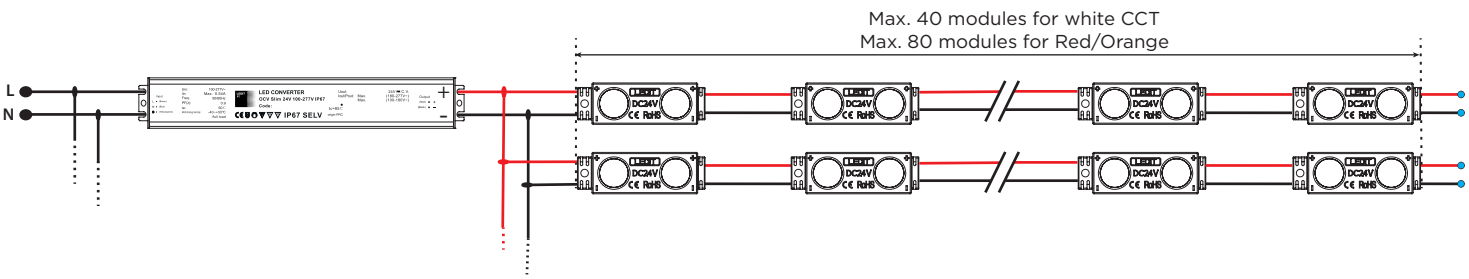
DIMENSIONS



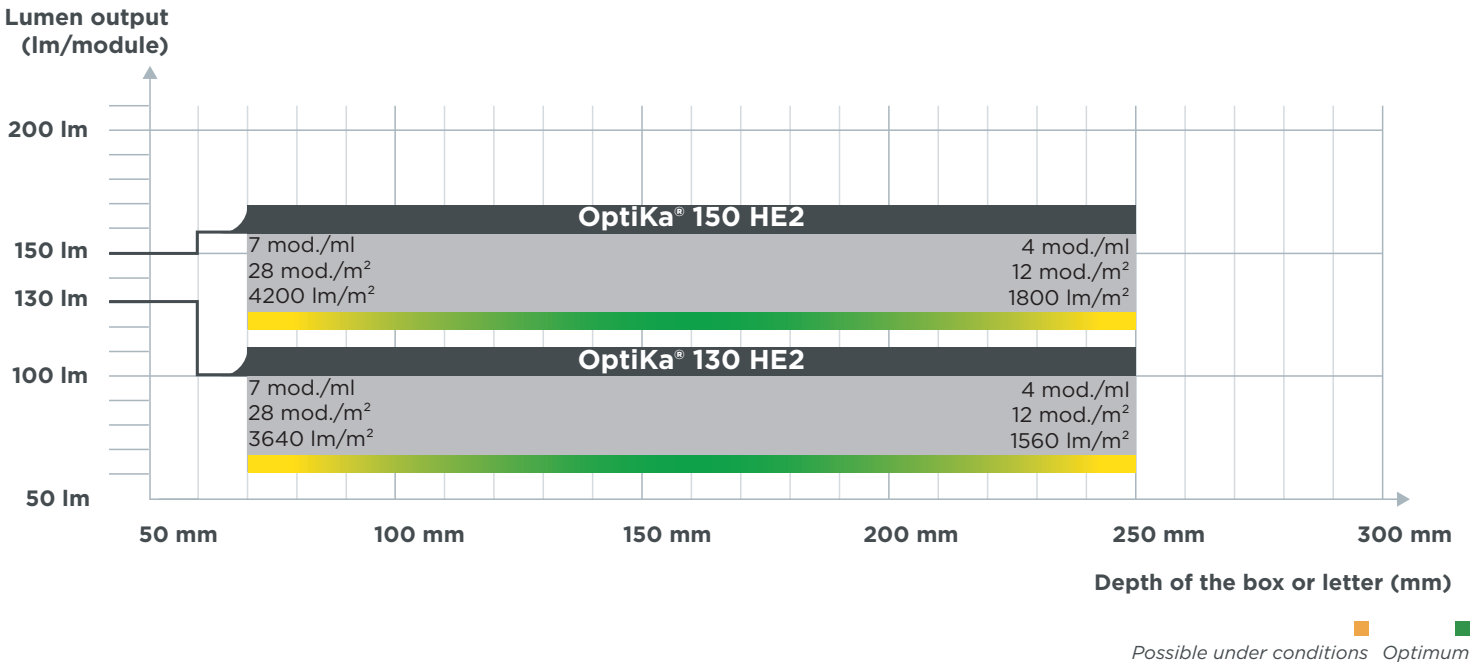
LIGHT DISTRIBUTION



WIRING DIAGRAM



APPLICATION - Letters and logos



INSTALLATION

- 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.

INGRESS PROTECTION IP66

The product is designed to be used Indoors or Outdoors.

The specified environmental protection of the LED module enclosure means that:

It is totally protected against the ingression of dust, and protected against powerful water jets (100 liters per minute) projected by a nozzle against enclosure from any direction.

Make sure that the application (sign, box, etc.) where the LED modules are installed into, has proper drain holes for water to exit so that LED modules and any other electronic components are not submerged exceeding the IP66 certification limits.

NORMS & CERTIFICATES

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

THERMAL BEHAVIOUR

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

- Operation temperature Ta -25°C to +55°C
- Storage temperature Ts -25°C to +70°C
- Max. temperature Tc point +60°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.

WHITE TOLERANCE

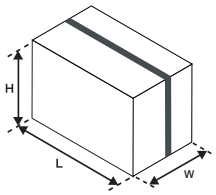
In order to ensure there is no color difference visible to the human eyes, tolerance of LEDs are Macadam ellipse 5 for white LEDs.

FAILURE RATE

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

PACKAGING

Type	SIZE - LxWxH (cm)	SIZE - LxWxH (ft)	Weight (kg)	Weight (lb)	Units (chain)
OptiKa 130 HE2	52x37x26	1,7x1,2x0,8	14,7	32,4	40
OptiKa 150 HE2 225mm	52x37x26	1,7x1,2x0,8	17,4	37,2	30
OptiKa 150 HE2 R/O 225mm	52x37x26	1,7x1,2x0,8	16,7	36,8	14
OptiKa 150 HE2 250mm	52x37x26	1,7x1,2x0,8	18,6	41	30



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