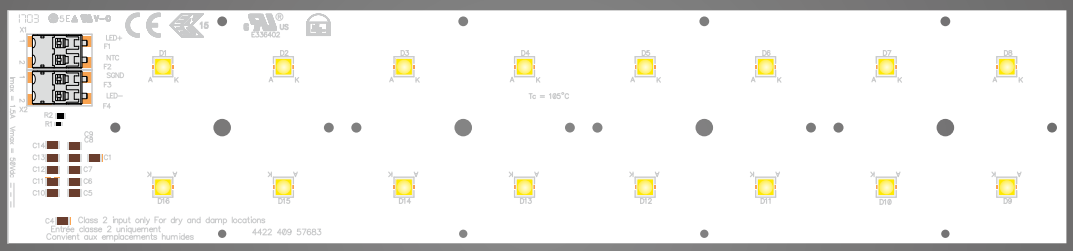
Rectangle-Z LED-module

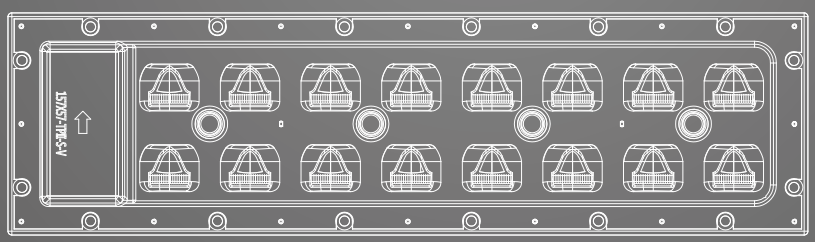
MK5050-4H4-35A-48V-32W-222R449R5-15550

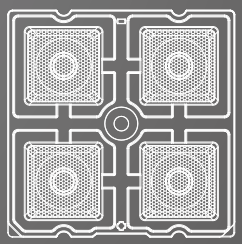
CREE on board | System Effizienz 179lm/W | CRI 80+ | 120° Beam angle | 5SDCM MacAdam | SMD Terminal Block | 0.34-0.75mm

MANKUN
Manufacturer Of LED Lighting Solution

constant CURRENT | ESD | RoHS | Zhaga







16H1 IP65 OR 4H1 STEET LIGHT LENSES OF DARKOO.

DARKOO® Optics

APPLICATIONS

PRODUCT DESCRIPTION

- **Color temperatures (3000 K, 4000 K, and 5000K)**
- **CRI>80 (CRI90 Available on request)**
- **Perfect for existing or new lamps**
- **LED module efficiency of up to 179 lm/W**
- **Excellent color consistency of 5 SDCM**
- **Best in class reliability testing for OEM peace of mind**
- **Long life-time: 50,000 hours**
- **High module efficiency for fixture performance**
- **Wide operating thermal range**
- **Optical flexibility via third party lenses**
- **Instant full light**

MANKUN
Manufacturer Of LED Lighting Solution

LED LIGHT ENGINES

Dk5050 - Outdoor Module(223*49.5mm)

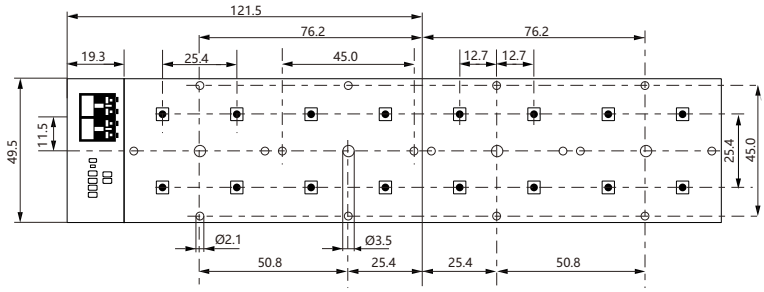
SMD Terminal Block

0.34-0.75mm

SPECIFIC TECHNICAL DATA

- Dimension MCPCB 223*49mm
- PCB Thickness 1.6mm
- Beam characteristic 120º
- Power Factor > 0.9
- Ambient temperature Ta: -25ºC ...+ 55ºC
- Module temperature Tc max. 85ºC
- Performance temperature Tp 75ºC
- Type of mounting M3 screws
- Wire cross section 0.2...0.75mm^2
- 30 g net weight per module
- MOQ 500 PC/NTC.
- Posibilidad de integrar LOGO Custom

DIMENSIONS (All dimensions in mm).



Wiring - Cablaggio

Ordering data

Commercial product name	PCS/TNC	MEAS	G.W.(KG)
DK5050-223X49-3535-16LED-830	250	525*375*235mm	13.8KG
DK5050-223X49-3535-16LED-840	250	525*375*235mm	13.8KG
DK5050-223X49-3535-16LED-850	250	525*375*235mm	13.8KG

Ordering data

Parameter	Nominal	Life**	Max***	Unit
DK5050-223X49-3535-16LED-8xx	350	700	1500	mA

Module temperatures

Parameter	Nominal	Life**	Max***	Unit
Tc（case temperature at Tc point）	45	75	85	ºC

* Nominal value at which typical performance is specified

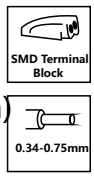
** Value at which life time is specified

*** Maximum value for safe operation, do not operate above this value

MANKUN
Manufacturer Of LED Lighting Solution

LED LIGHT ENGINES

Dk5050 - Outdoor Module(223*49.5mm)



Specific technical data

Type	Typ. luminous flux at tp = 25 °C	Typ. luminous flux at tp = 65 °C	Typ. Colour temperature (CCT)	Colour rendering index CRI	Min. forward voltage at tp = 65 °C	Max. forward voltage at tp = 25 °C	Typ. forward current	Typ. power consumption at tp = 65 °C	Max. forward current	Efficacy of the module at tp = 25 °C	Efficacy of the module at tp = 65 °C
DK5050-15550	2,624lm	2,464lm	3,000K	>80	44.8V	48.0V	350mA	15.2W	1500mA	168lm/W	162lm/W
	4,888lm	4,520lm					700mA	32.0W		150lm/W	142lm/W
	6,868lm	6,244lm					1050mA	46.8W		136lm/W	126lm/W
	2,796lm	2,628lm	4,000K				350mA	15.2W		179lm/W	172lm/W
	5,216lm	4,820lm					700mA	32.0W		160lm/W	151lm/W
	7,328lm	6,660lm					1050mA	46.8W		145lm/W	135lm/W
	2,796lm	2,628lm	5,000K				350mA	15.2W		179lm/W	172lm/W
	5,216lm	4,820lm					700mA	32.0W		160lm/W	151lm/W
	7,328lm	6,660lm					1050mA	46.8W		145lm/W	135lm/W

1) Integral measurement over the complete module.
2) If mounted with M3 screws.
3) Measured at I =1500 mA.
4) HE ... high efficiency, NM ... nominal mode, HO ... high output.
5) Tolerance range for optical and electrical data: ±10 %.

Precautions for Use

Chemical Substances

Certain chemical substances listed below may harm LED modules by causing corrosions which result in reduced luminous flux, color shift, and no light output in the worst case. Please use caution when storing LED modules and designing the luminaire system so that LED modules are not exposed to such chemical substances.

- Examples of harmful chemical substances: Sulfur, chlorine, phthalate, halogen, VOCs (volatile organic compound)
- Example sources of harmful chemical substances: Organic rubber, corrugated paper, lead solder paste, epoxy

When designing a sealed luminaire, one must use silicone based sealing instead of rubber based ones and make sure that there is no source of harmful chemical in the luminaire.

Do not store LED modules with corrugated paper or rubber. It is recommended that LED modules be stored in aluminum moisture barrier bag or PE (Polyethylene) bag together with silica gel.

ESD

This LED module is sensitive to electrostatic discharge. Please handle the module in an environment with appropriate ESD protection measures.

DC Polarity

There is no reverse polarity protection. Please use caution and do not drive the module in reverse polarity. It can damage the module.

Constant Current

This LED module must be driven by constant current LED drivers. Constant voltage driver may damage the module.

LED Handling

LED is a delicate component. Do not touch or apply pressure on the yellow light emitting window of LEDs. This may damage the LED causing no light output.