



# eLED rkit

KIT LED MODULE + FULLY PROGRAMMABLE DRIVER



## KIT LED MODULE + FULLY PROGRAMMABLE DRIVER

The eLED RKIT was initially designed for decorative post-top luminaires, but can be used on a wide variety of existing lighting fixtures. The light engine offers a LED module with 24 high output LED chips, mounted on an aluminium heat sink. It comes with mounted optics which guarantee high optical efficiency and highly efficient light distribution, as well as IP67 and IK10 protections. By combining the eLED RKIT light engine with fully programmable eSmart LED drivers, a wide range of programmable features, dimming methods and street lighting CMS are achievable which offers clients a highly efficient and versatile lighting solution.



### GENERAL FEATURES

Type	Built-to use LED module
Models	26W, 38W, 54W, 83W
Nominal voltage	180... 277 Vac
Permitted input voltage range	162... 305 Vac
Network frequency	50... 60 Hz
High power factor	( $\lambda$ @230Vac, 54W) $\geq 0,96$
Low harmonic distortion	THD @230Vac, 54W) <10%
Mains surge and lightning strike protection:	Differential mode: 6kV / 3kA (L-N) Standard mode: 6kV (L - N - Earth)
Mains surge and lightning strike protection	10 kV/10 kA. (Accessory)
Electronic circuit protection	Thermal and humidity
Dimming	See Dimming Methods section on page 4
LED load	module with 24 high output LEDs
Luminous efficacy	Up to 139 lm/W
Available colour temperatures (K)	PC AMBER, 2.200K, 2.700K, 3.000K, 4.000K, 5.000K
Colour Rendering Index	>70 (except PC AMBER)
Optics	2x6 IP lenses
Material	PC / PMMA
Optical unit ingress protection	IP67
Impact protection rating	IK10 <sup>(1)</sup>
Available photometric distributions	See PHOTOMETRIC DISTRIBUTIONS section on page 5
Useful life at 25°C	L90 B10 100,000hrs



*Different fields of application*

<sup>(1)</sup> Check with the Commercial Department

## TECHNICAL FEATURES

	LED power supply	Typical power	Colour temp.	Total typical luminous flux at amb. temp. 25 °C	Total typical luminous efficacy	Max. temp. at tc point	Operating temp.
	mA	W <sup>(1)</sup>	K	lm <sup>(2)</sup>	lm/W	tc (°C)	ta (°C)
26W							
eLED RKIT-26W-PCA-[*]-[**]	350	26	PC AMBER	2.445	94	75	-40... +45
eLED RKIT-26W-722-[*]-[**]			2.200	2.842	109	85	-40... +55
eLED RKIT-26W-727-[*]-[**]			2.700	3.240	125		
eLED RKIT-26W-730-[*]-[**]			3.000	3.356	129		
eLED RKIT-26W-740-[*]-[**]			4.000	3.537	136		
eLED RKIT-26W-750-[*]-[**]			5.000	3.607	139		
38W							
eLED RKIT-38W-PCA-[*]-[**]	500	38	PC AMBER	3.531	93	75	-40... +45
eLED RKIT-38W-722-[*]-[**]			2.200	4.029	106	85	-40... +55
eLED RKIT-38W-727-[*]-[**]			2.700	4.626	122		
eLED RKIT-38W-730-[*]-[**]			3.000	4.746	125		
eLED RKIT-38W-740-[*]-[**]			4.000	5.086	134		
eLED RKIT-38W-750-[*]-[**]			5.000	5.188	137		
54W							
eLED RKIT-54W-PCA-[*]-[**]	700	54	PC AMBER	4.614	85	75	-40... +45
eLED RKIT-54W-722-[*]-[**]			2.200	5.363	99	85	-40... +55
eLED RKIT-54W-727-[*]-[**]			2.700	6.113	113		
eLED RKIT-54W-730-[*]-[**]			3.000	6.331	117		
eLED RKIT-54W-740-[*]-[**]			4.000	6.673	124		
eLED RKIT-54W-750-[*]-[**]			5.000	6.807	126		
83W							
eLED RKIT-83W-PCA-[*]-[**]	1050	83	PC AMBER	6.202	75	65	-40... +40
eLED RKIT-83W-722-[*]-[**]			2.200	7.229	87	85	-40... +55
eLED RKIT-83W-727-[*]-[**]			2.700	8.698	105		
eLED RKIT-83W-730-[*]-[**]			3.000	8.798	106		
eLED RKIT-83W-740-[*]-[**]			4.000	9.401	113		
eLED RKIT-83W-750-[*]-[**]			5.000	9.589	116		

Electrical and optical data tolerance +10%.

(1) Nominal wattage, taking into consideration LED driver power loss.

(2) Values based on distribution curve T3.01 (values will vary depending on the type of optical lens being used).

[\*] Distributions available [T2.01], [T2.02], [T3.01], [T3.02], [T5] o [90]. See on the next page photometric distributions

[\*\*] Regulation methods [LC-I/O], [DLC-AD], [DLC-MD], [DLC-O\_10V] o [ILC-DALI]. See on the next page enabled regulation mode: ActiDIM (AD)

## DIMMING OPTIONS

### CONTROL GEAR WITH eSMART TECHNOLOGY



The electronic equipment equipped with eSMART technology offer total flexibility in the design of the lighting system, thanks to all the functionalities and selectable and configurable regulation methods that they incorporate. The equipment is the ideal lighting solution, present and future, to optimize the performance of each of the points of light, obtain the best operating characteristics as well as the maximum energy saving, which helps reduce both the economic and CO<sub>2</sub> emissions into the atmosphere throughout the service life of the lighting system.

REGULATION METHODS	<b>ON/OFF:</b> No regulation
	<b>DALI</b>
	<b>0-10V</b>
	<b>1-10V</b>
	<b>ActiDIM:</b> Autonomous regulation system that simulates astronomical behaviour, up to 9 steps
	<b>Parking mode:</b> light regulation via presence detectors
	<b>ActiDIM + Parking:</b> Combina regulación autónoma con sensores de presencia
	<b>LineSwitch:</b> Combines stand-alone dimming with presence detectors
	<b>MainsDIM:</b> Regulation varying the mains voltage

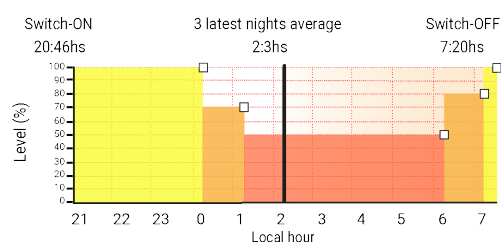
### AVAILABLE REGULATIONS METHODS

	Hose configuration			Possibilities
	Mains	0... 10V	DALI	
I/O(ON/OFF)	✓	✗	✗	-
AD (ActiDIM)	✓	✗	✗	-
MD (MainsDIM)	✓	✗	✗	-
0_10V	✓	✓	✗	0... 10V, 1... 10V, Line Switch, Parking
◉ DALI	✓	✗	✓	DALI, ActiDim. ActiDIM + Parking, MainsDIM, LineSwitch, Parking

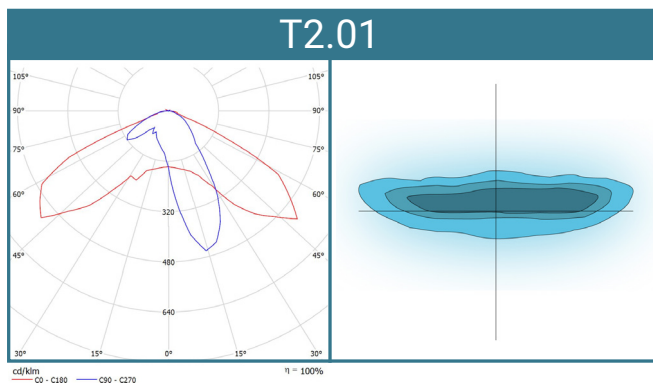
◉ Regulation mode enabled: ActiDIM

### ACTIDIM PROFILE, STANDARD CONFIGURATION

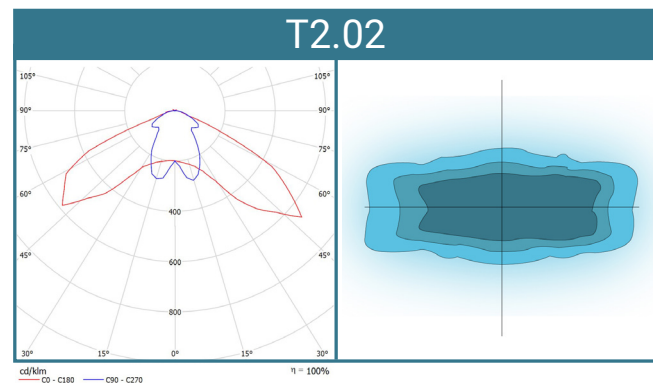
Time intervals	Module power
Power on	100%
2 hours before the middle of the night	70%
1 hour before the middle of the night	50%
4 hours after the middle of the night	80%
5 hours after the middle of the night	100%



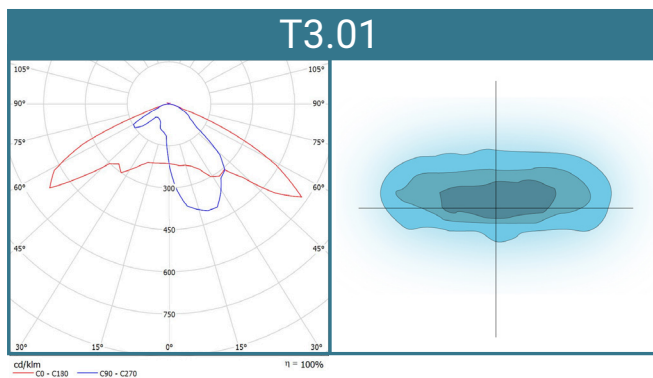
## PHOTOMETRIC DISTRIBUTIONS (CD/KLM)



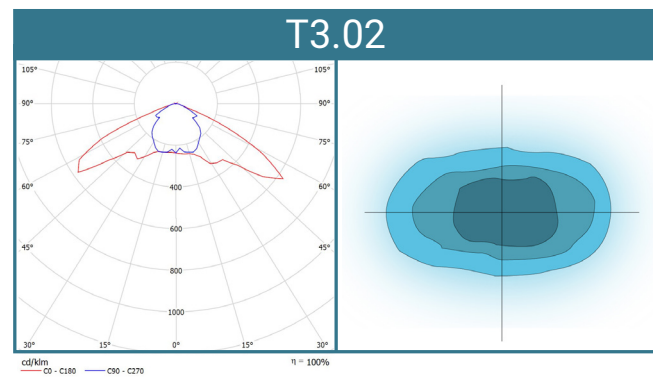
IESNA Type II Long Asymmetrical distribution is used for lighting the European standard for Class P pedestrian walkways and Class M roadways.



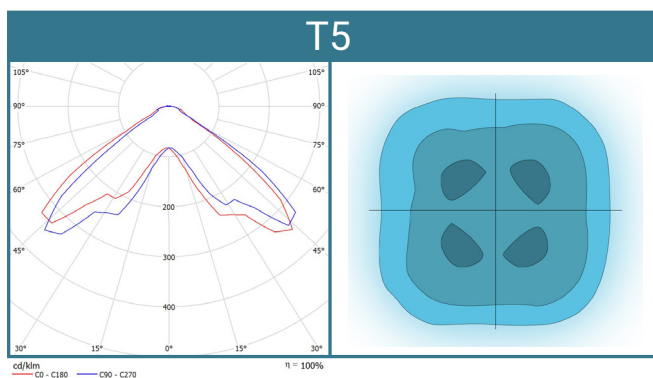
Long Symmetrical distribution is used for lighting roadways and pedestrian walkways.



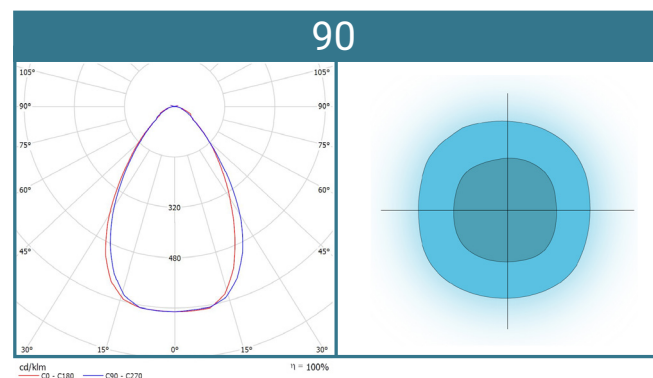
IESNA Type III Wide Asymmetrical distribution is used for lighting roadways whose width is the same or more than the mounting height.



Wide Symmetrical distribution is used for lighting roadways and pedestrian walkways.



IESNA Type V Circular Symmetrical distribution is used for large areas such as parks and car parks.

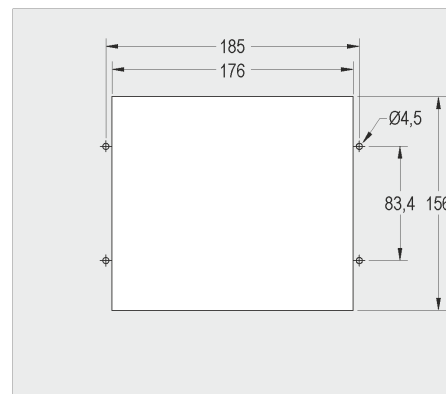
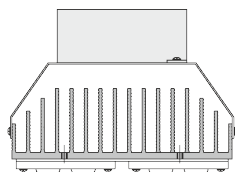
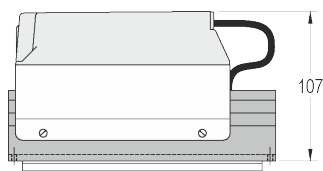
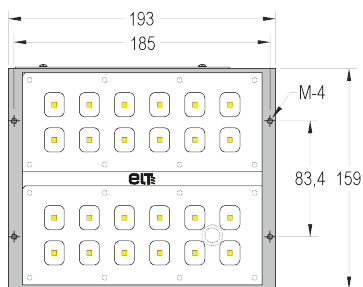


90° Symmetrical distribution is used for floodlighting.

Light distribution curves based on RKIT. Please contact the sales team for exact information.



## MECHANICAL FEATURES

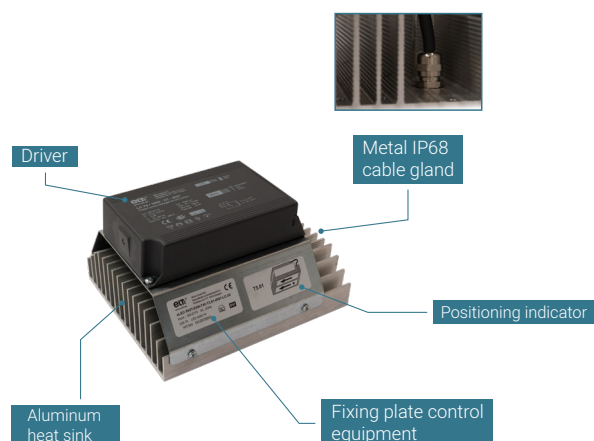


Internal metal plate dimensions.

\* Dimensions in mm.

### Dimensions

Long	193 mm	Distance between anchoring points (longitudinal)	185 mm
Width	159 mm	Distance between anchoring points (cross)	83.4 mm
High	107 mm	Anchoring holes	M4



## INSTALLATION



Easy to install in the luminaire.

## APPLICABLE STANDARDS

CE marking	✓
ENEC certificate	✓
RoHS-compliant	✓
Certificates issued by an ENAC accredited body	✓
Compliance with IDAE and CEI technical requirements	✓

<b>SAFETY</b>	UNE-EN 62471:	Photobiological safety
<b>ELECTROMAGNETIC COMPATIBILITY</b>	UNE-EN 61000-3-2:	Harmonics
	UNE-EN 61000-3-3:	Fluctuations and flicker
	UNE-EN 55015:	Radio disturbance
	UNE-EN 61547:	Immunity requirements (EMC)
<b>COMPONENTS</b>	UNE-EN 62031:	LED modules for general lighting
	UNE-EN 61347-1:	Lamp control gear. General and safety requirements
	UNE-EN 61347-2-13:	Lamp control gear. Particular requirements
	UNE-EN 62384:	Operational requirements
<b>OTHER STANDARDS</b> Test regulation: light and lighting, measurement and presentation of photometric data.	UNE-EN 13032-1:	Measurement and file format
	UNE-EN 13032-4:	LED lamps, modules and luminaires
	LM79:	Electrical and photometric measurements
	LM80:	Lumen maintenance
	TM21:	Predictive luminous flux maintenance

## ACCESSORIES



### Customised metal plates

*Product with special conditions. Please consult our Commercial Department*



### ITP 230V-10KA-2

*10kV/10kA auxiliary device for lightning strike and mains surge protection*

## DATA LOGISTICS

	Net unit weight	Units per package
eLED RKIT	2,550 Kg	2 units.

The data in this document is subject to change without prior notice. Please ensure you have the latest version which is available from [www.elt.es/en](http://www.elt.es/en)



Pol. Ind. Malpica - calle E nº 11  
50016 Zaragoza (Spain)  
Phone: +34 976 573 660  
Fax: +34 976 574 960  
E-mail: [elt@elt.es](mailto:elt@elt.es)

[www.elt.es/en](http://www.elt.es/en)

