



eLED rkit-bleⁱⁱⁱ

KIT LED MODULE + BLE PROGRAMMABLE DRIVER



eLED rkit-BLE[®]

LED MODULE + FULLY PROGRAMMABLE DRIVER

The eLED RKIT-BLE is a Retrofit Kit comprising a module with 24 high output LEDs mounted on an aluminium heat sink and a combination of lenses that guarantee protection levels IP67 and IK10. It offers high optical efficiency and highly efficient light distribution. In addition, it incorporates a driver equipped with BLE technology, which can be programmed via the iMONITOR mobile app. All this provides a high degree of flexibility to adapt to any classical luminaires (Villa, Fernandina...), industrial lighting or other lighting application.

By means of the iMONITOR app, driver configuration times are reduced making start-up and maintenance more accessible and cost-effective.



GENERAL FEATURES

Type	Built-to-use LED module
Models	38W, 54W, 83W
Nominal voltage	180... 277 Vac
Permitted input voltage range	162... 305 Vac
Network frequency	50... 60 Hz
High power factor	(λ @230Vac, 54W) \geq 0,96
Low harmonic distortion	THD @230Vac, 54W) <10%
Mains surge protection integrated into the driver	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	Via BLE technology. See page 4 for more information
LED load	Module with 24 high output LEDs
Luminous efficacy	Up to 137 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 ⁽¹⁾
Available photometric distributions	See PHOTOMETRIC DISTRIBUTIONS section on page 5
Useful life at 25°C	L90 B10 100,000hrs



Different fields of application

(1) 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 ⁽¹⁾	K	lm ⁽²⁾	lm/W	tc (°C)	ta (°C)
38W							
eLED RKIT-38W-PCA [*]			PC AMBER	3.531	93	75	-40... +45
eLED RKIT-38W-722 [*]			2.200	4.029	106		
eLED RKIT-38W-727 [*]			2.700	4.626	122		
eLED RKIT-38W-730 [*]	500	38	3.000	4.746	125	85	-40... +55
eLED RKIT-38W-740 [*]			4.000	5.086	134		
eLED RKIT-38W-750 [*]			5.000	5.188	137		
54W							
eLED RKIT-54W-PCA [*]			PC AMBER	4.614	85	75	-40... +45
eLED RKIT-54W-722 [*]			2.200	5.363	99		
eLED RKIT-54W-727 [*]			2.700	6.113	113		
eLED RKIT-54W-730 [*]	700	54	3.000	6.331	117	85	-40... +55
eLED RKIT-54W-740 [*]			4.000	6.673	124		
eLED RKIT-54W-750 [*]			5.000	6.807	126		
83W							
eLED RKIT-83W-PCA [*]			PC AMBER	6.202	75	65	-40... +40
eLED RKIT-83W-722 [*]			2.200	7.229	87		
eLED RKIT-83W-727 [*]			2.700	8.698	105		
eLED RKIT-83W-730 [*]	1050	83	3.000	8.798	106	85	-40... +55
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-0_10V] o [iLC-DALI]. See on the next page enabled regulation mode: ActiDIM (AD).

CONTROL GEAR WITH BLE TECHNOLOGY

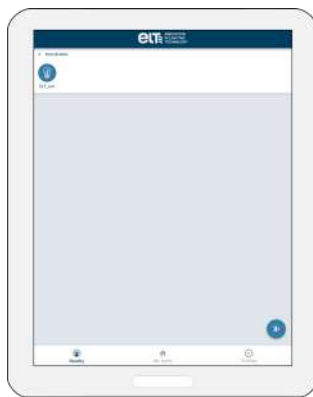


This application makes it possible to configure the features of the final lighting system, such as the adjustable output current (AOC), the ActiDIM profile of the driver or the real time monitoring of the luminaire's parameters. These features are combined with BLE technology, which reduces maintenance/programming costs and generates an economic saving.

iMONITOR is an app designed for street lighting, simply and easily performing the remote, point-to-point management of each lighting fixture with no need for any physical intervention.

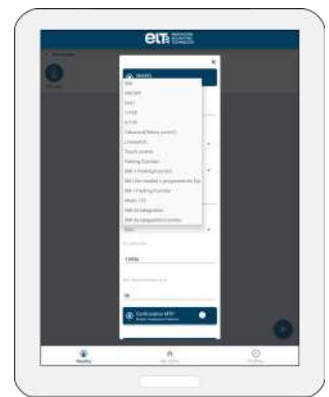
1

The app automatically locates every lighting fixture that incorporates BLE technology and that is within the range, between the luminaire and configuration device.



2

Drop-down menu displays the driver's operating modes.



3

Lighting fixtures are displayed by group along with the ActiDIM profiles of each group.



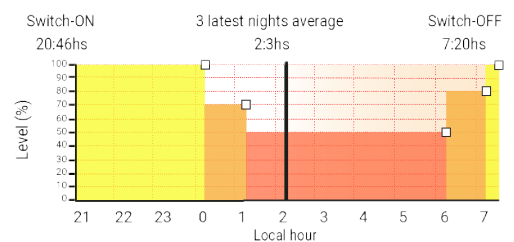
4

Set up screen of a specific ActiDIM profile.

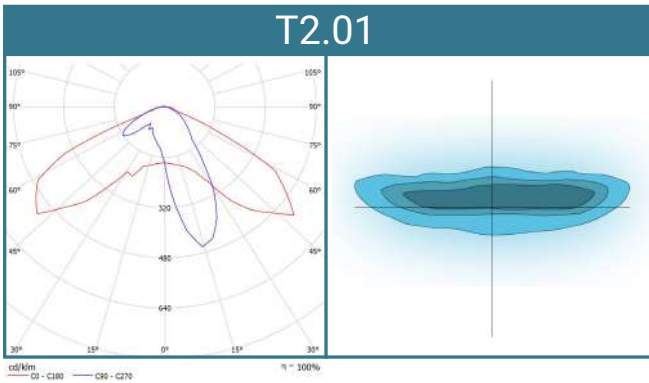


ActiDIM⁽¹⁾ profile, standard configuration

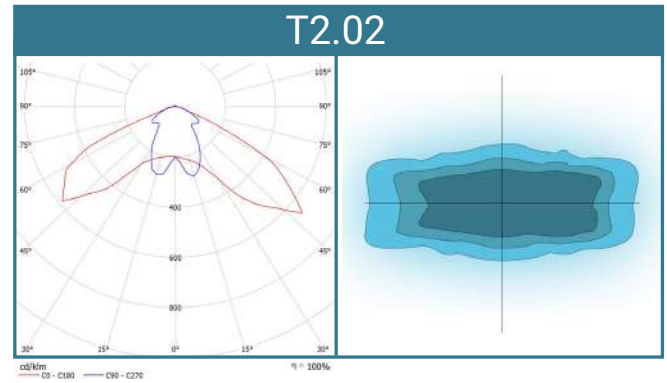
Time intervals	Module power
Power on	100%
2 hours before the middle of the night	70%
1 hour before the middle of the night	50%
4 hours after the middle of the night	80%
5 hours after the middle of the night	100%



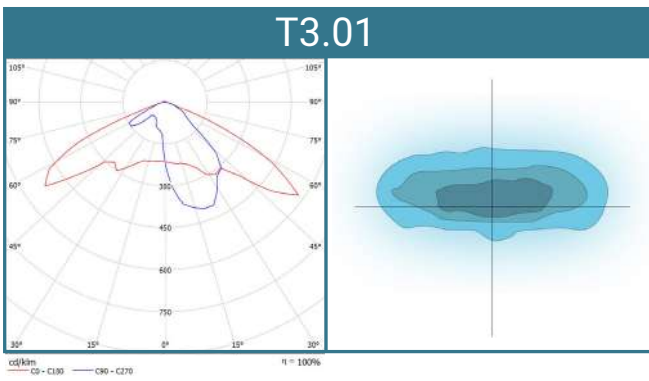
PHOTOMETRIC DISTRIBUTIONS (CD/KLM)



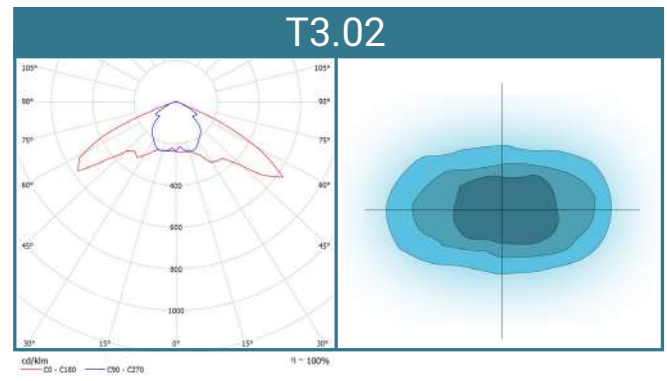
IESNA Type II Long Asymmetrical distribution is used for lighting the European standard for Class P pedestrian walkways and Class M roadways.



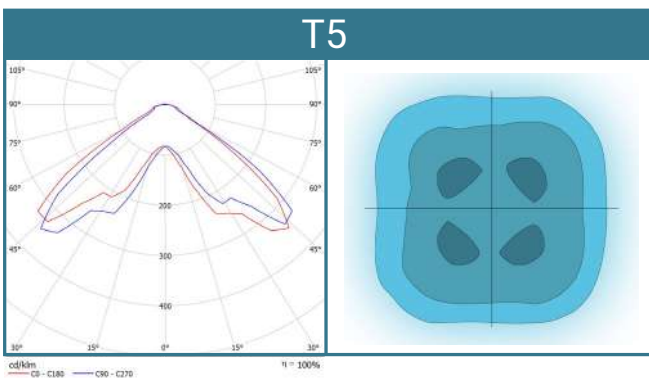
Long Symmetrical distribution is used for lighting roadways and pedestrian walkways.



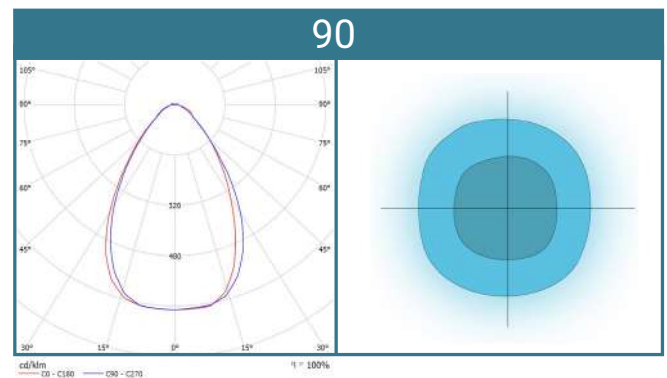
IESNA Type III Wide Asymmetrical distribution is used for lighting roadways whose width is the same or more than the mounting height.



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



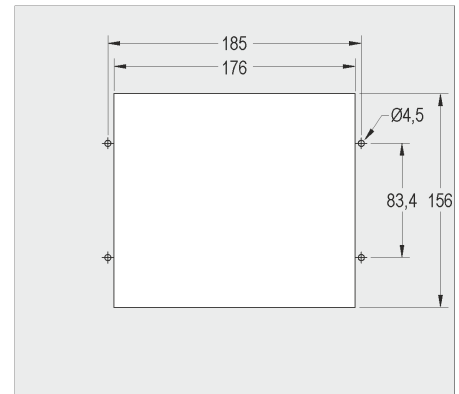
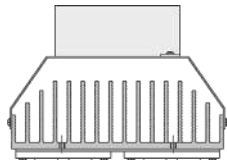
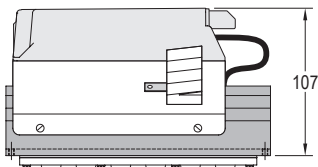
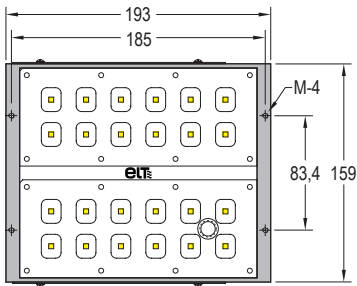
IESNA Type V Circular Symmetrical distribution is used for large areas such as parks and car parks.



90° Symmetrical distribution is used for floodlighting.

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

MECHANICAL FEATURES

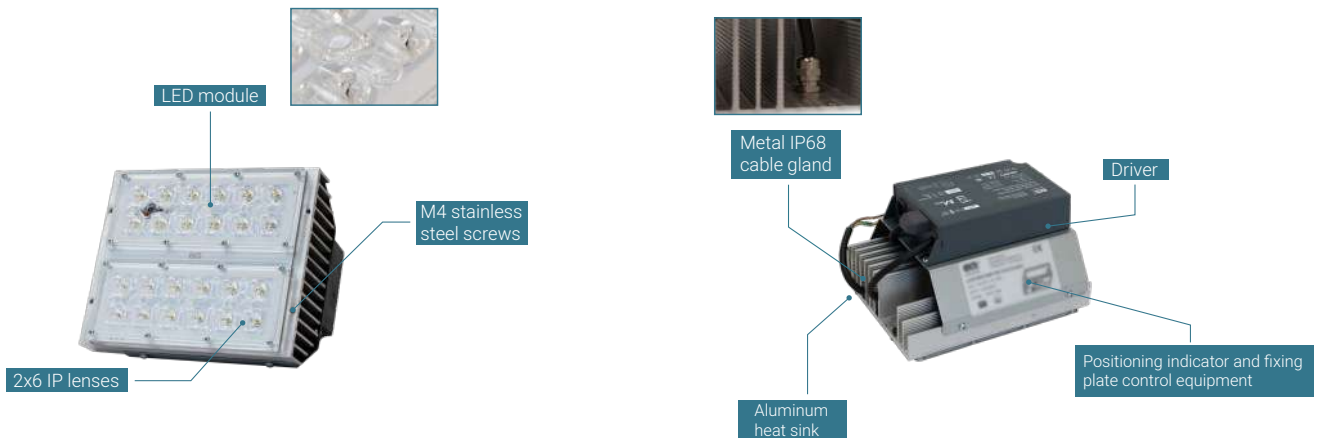


Internal metal plate dimensions.

* 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	✓

SAFETY	UNE-EN 62471:	Photobiological safety
ELECTROMAGNETIC COMPATIBILITY	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)
COMPONENTS	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
GRID REGULATIONS	EN 301 489-1 V2.2.0	EMC for radio & services part 1
	EN 301 489-17 V3.2.0	EMC for radio & Services part 17
	EN 62311:2008	Human exposure
	EN 62368-1:2014 + AC:2015 + A11:2017	Audio/video, information and communication technology equipment
OTHER STANDARDS 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

110kV/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



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