LED Street/Area Luminaire





Product Description

Designed as a complete street lighting system and optimized for LED light sources, it is distinguished by its extraordinary efficiency. Energy provides the best lighting solution.

Developed with three product sizes, a wide range of light sources together with a comprehensive

optical range, stand-alone flux control options and Zhaga and Nema connectivity.

Energy can be mounted on a pole or bracket with an adjustability of $+/-20^{\circ}$ and with 5° increments. Adjustments can be done from outside without having to open the product cover

Applications: Urban and internal roads, pedestrian walkways and car parks.



Efficacy: Up to 180 lm/W

Initial Color Consistency: 4 Step SDCM

System Lumen Output: Up to 11500 lm

Limited Warranty: 5 years on luminaire

Extended warranty (up to 10 years) available for approved projects. Contact ADLT for further information.



Ordering information

Eg. TRSB-2-K10-B-80-407-^-A-G-FX-S-S-00

TRSB	- 2	- K10	- B	- 80	-	407	- ^	- A	- G -	FX	- S	- S	- 00
Product	Mounting	Optic	Light engine	Lumen output		ССТ	Insulation Class	Voltage	Finish	Option	Variant	Protection	Cable Length
TRSB Energy UNO Version B TUSB Energy UNO LCu Version B	- 2 Horiz/vert tenon 60/42mm OD 3 Vert tenon 76mm OD	- K07 NanoComfort Narrow Street K08 NanoComfort Narrow Street K09 NanoComfort Medium Street K10 NanoComfort Medium Street K11 NanoComfort Medium Street K11 NanoComfort Medium Street K12 NanoComfort Medium Street K12 NanoComfort Medium Street K13 NanoComfort Medium Street K14 NanoComfort Medium Street K15 NanoComfort Medium Street K16 NanoComfort Medium Street K17 NanoComfort Medium Street K18 NanoComfort Medium Street K19 Pedestrian Narrow Narrow P25 Medium P25 Medium P25 Broad Street	- A Up to 4200 lm B Up to 8000 lm C Up to 11500 lm	- 20 - 2000lm 30 - 3000lm 36 - 3600lm 42 - 4200lm 50 - 5000lm 65 - 5500lm 60 - 6000lm 70 - 7000lm 80 - 8000lm 90 - 9000lm 100 - 10000lm 115 - 11500lm		227 2200K CRI70 277 2700K CRI70 307 3000K CRI70 407 4000K CRI70	Class II	- A 220-240V	Sapphire Grey SSilver	FX Fixed Output M1 Virtual Midnight 1 M2 Virtual Midnight 2	- S No socket/ No sensor N Nema socket Z Zhaga Top B Zhaga Bottom D Zhaga Top & Bottom	SF* Standard +Fuse U 10 kV UF* 10 kV +Fuse	B1 Exit cable 1 m B6 Exit cable 6 m B8 Exit cable 8 m OB Exit cable 10 m 2B Exit cable 12 m

^{*}Fuseholder with 5x20 8A rit. fuse on the input (line only)

Standard cable cross-section 1.5mm². Other cross-sections available on request.

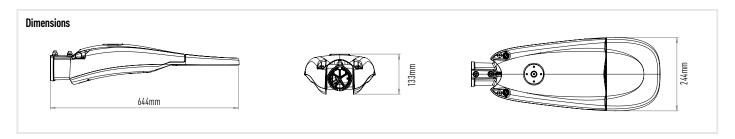
LIGHT SHIELDS				
TRS-BLSF	Front shield			
TRS-BLSR	Right shield			
TRS-BLSL	Left shield			
TRS-BLSB	Back shield			

ADAPTER	
KIT-TRS-AP60-42-48-V0	Fitter kit to mount to 42 & 48 mm tenon

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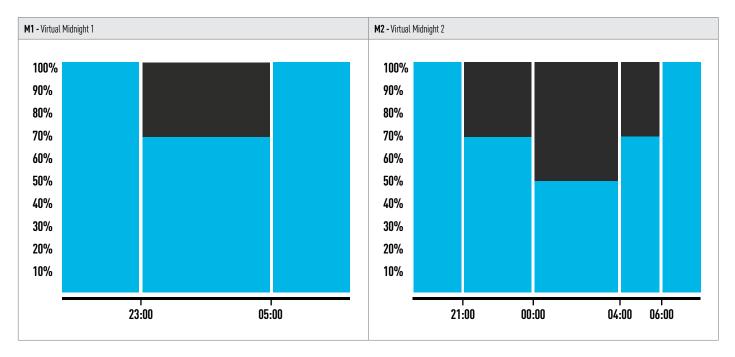




Light engine	System Lumen Output (lm)	Power (W)	Efficacy (lm/W)
A	2024	13,2	153
	2995	18,5	162
	3626	21,7	167
	4211	24,7	170
	5027	29,8	169
	5507	32,7	168
В	5985	35,4	169
D	6538	38,7	169
	7010	41,4	169
	8023	47,4	169
C	9000	54,3	166
	9992	60,6	165
	11494	70,2	164

Note1: Data above for 4000K CRI70. Conversion factor for 3000K CRI70 = 0.95 | 2700K CRI70 = 0.91 | 2200K CRI70 = 0.79

Note²: Lumen and power data are typical values at 25°C ambient temperature. These values are subject to a tolerance of \pm 7%. In order to facilitate product updates, Cree Lighting Europe reserves the right to make changes without prior notice



Virtual Midnight

This independent stand-alone system requires no additional wiring; it is integrated into the luminaire and requires no intervention from the installer. A system that is reliable and easy to set, as the adjustment follows pre-defined steps. Virtual Midnight offers excellent results in terms of savings: the device updates automatically according to the system's switch-on and switch-off times. Most energy saving regulations - GPP and the like - require maximum light output during the first and last hours of operation, which are generally the busiest, and a reduction of at least 30% during the central hours of the night. Through a self-learning process, the microprocessor determines the central point - the so-called virtual midnight - between the time the system is switched on (sunset) and the time it is switched off (dawn). The process is carried out over three consecutive days with regular on/off cycles. Virtual midnight is the reference point for switching the setback intervals according to the desired profile.

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FEATURES

- Available with NanoComfort® precision optical system
- System lumen output up to 11500 lm
- Zhaga Book 15 compliant LED module efficiency (excluding optical system): ≥220 lm/W
- · Luminaire efficiency (including optical losses): up to 180 lm/W
- · CCT: 4000K Ra70, 3000K Ra70, 2700K Ra70, 2200K Ra70
- · CRI Standard min. 70
- Initial Chromatic Selection: < 4-Step MacAdam ellipse or ∆u'v' < 0.003 (LM80:08)
- Luminous flux maintenance factor: L90B10 >100,000 hours Ta=25°C
- Optical compartment and wiring compartment ingress protection: IP66 (IEC 60529)
- Optical compartment and wiring compartment impact resistance: IK10 (EN 62262)
- Overvoltage protection: up to 10kV CM/DM according to EN 61000-4-5 and EN 61547
- · Driver equipped with over-temperature protection for optimal performance and safety
- · Power factor: up to 0.98 at full load
- Operating temperature: -40°C up to +50°C
- · Control options: Virtual Midnight, D4i
- Available with fuse, 20mm Zhaga Book 18 connector and NEMA socket
- Backlight control accessory available on request for selected lenses
- · Front, side & rear light shield accessories available
- SPD with LED fault indicator (Standard in class I, available on request in class II)
- · Weight: 6,5 kg
- Lateral windage area: 0.04 m², maximum windage area: 0.12 m²

CONSTRUCTION AND MATERIALS

- Die-cast aluminum body EN 47100 (copper content <0.7%). Aluminum alloy EN AB 44300 (copper content <0.1%) available as an option.
- · Power supply compartment accessible without the use of tools
- Ultra-clear 4mm tempered glass with anti-reflective coating
- · Replaceable PMMA lenses
- Replaceable LED board equipped with ESD protection
- · Cable type H07RN-F (Cable length up to 15m)
- Easy installation: wiring compartment accessible without tools, no need to open it for installation if the fixture is configured with protruding cable
- · Convenience in routine and extraordinary maintenance: accessible power supply compartment; lenses and LEDs easily removable and replaceable
- · Luminaire assembled without the use of adhesives, fully demountable and recyclable
- Can be mounted on poles or brackets with an adjustability of +/- 20° and with 5° increments

WARRANTY AND CERTIFICATIONS

- Warranty: 5 years / 10 years on request
- · CE / CB / RoHS / ENEC
- Compliant to: EN 60598-1, EN 60598-2-3
- TM66 rated with an excellent circularity
- Meets CAM requirements
- Exempt risk class (EN 62471)
- Compliant with vibration test in accordance with IEC 60068-2-6 severity levels
- Lead-free powder coatings with excellent exterior durability, conforms to the requirements:
 - · Adhesion test compliant with ISO 2409
 - Salt spray test NSS compliant with ISO 9227
 - Accelerated Weathering test UV compliant with ISO 16474-3 (ex ISO 11507)
 - Constant humidity test compliant with ISO 6270-1

Rev. Date: February 25th 2025

LED Street/Area Luminaire

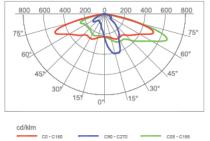


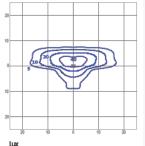


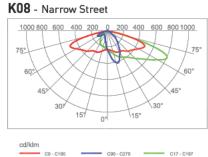
Photometry

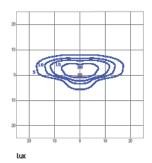
All published luminaire photometric testing performed by an external certified ISO 17025 laboratory. To obtain an IES file specific to your project consult: www.creelighting-europe.com

K07 - Narrow Street









Luminous Intensity Class 6*3 Glare Index D6

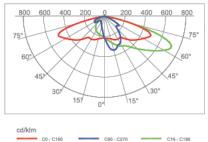
TRSB-2-K07-B-80-407 Mounting Height: 6m

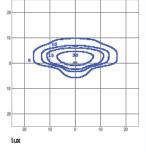
Luminous Intensity Class G*3 Glare Index D5

K10 - Medium Street

TRSB-2-K08-B-80-407 Mounting Height: 6m

K09 - Medium Street

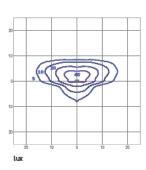




800 600 400 200 0 200 400 600 800 75*
60*
45*
30*
157
0*
115*

C30-C270

C32-C289



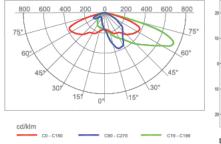
Luminous Intensity Class 6*3 Glare Index D5

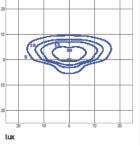
TRSB-2-K09-B-80-407 Mounting Height: 6m

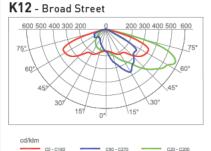
Luminous Intensity Class G*3 Glare Index D5

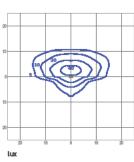
TRSB-2-K10-B-80-407 Mounting Height: 6m

K11- Medium Street









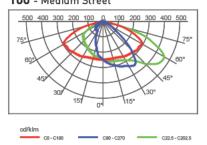
Luminous Intensity Class G*3 Glare Index D5

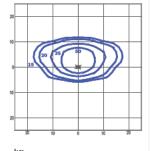
TRSB-2-K11-B-80-407 Mounting Height: 6m

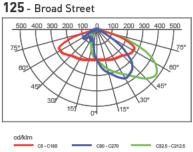
Luminous Intensity Class G*3 Glare Index D5

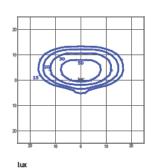
TRSB-2-K12-B-80-407 Mounting Height: 6m

100 - Medium Street









Luminous Intensity Class G*4 Glare Index D5

TRSB-2-100-B-80-407 Mounting Height: 6m

Luminous Intensity Class G*4 Glare Index D6

TRSB-2-125-B-80-407 Mounting Height: 6m

LED Street/Area Luminaire

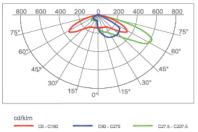


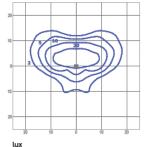


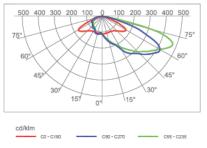
Photometry

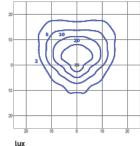
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150 - Wide Street









Luminous Intensity Class G*3 Glare Index D5

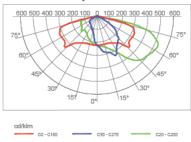
TRSB-2-150-B-80-407 Mounting Height: 6m

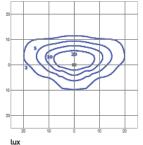
Luminous Intensity Class G*3 Glare Index D5

200 - Extra Wide Street

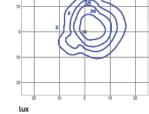
TRSB-2-200-B-80-407 Mounting Height: 6m

SCP - Street & Cycle Path





PCR - Pedestrian Crossing Right



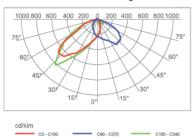
Luminous Intensity Class G*2

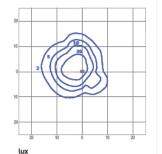
TRSB-2-SCP-B-80-407 Mounting Height: 6m

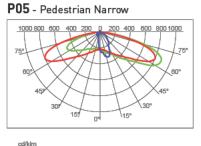
Luminous Intensity Class G*6

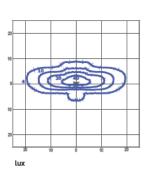
TRSB-2-PCR-B-80-407 Mounting Height: 6m

PCL - Pedestrian Crossing Left









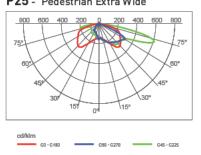
Luminous Intensity Class G*6 Glare Index D5

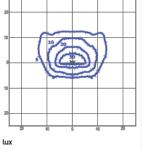
TRSB-2-PCL-B-80-407 Mounting Height: 6m

Luminous Intensity Class G*1 Glare Index D4

TRSB-2-P05-B-80-407 Mounting Height: 6m

P25 - Pedestrian Extra Wide





Luminous Intensity Class G*0 Glare Index D4

TRSB-2-P25-B-80-407 Mounting Height: 6m