LED Street/Area Luminaire



CREE 🗧 LIGHTING

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° 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.

Performance Summary

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.



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

Ordering information

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 K10 NanoComfort Medium Street K11 NanoComfort Medium Street K11 NanoComfort Medium Street K12 NanoComfort Medium Street P05 Pedestrian Crossing Left K12 NanoComfort Broad Street P05 Pedestrian Narrow P25 Pedestrian Street P25 Pedestrian Extra Wide P25 Pedestrian Extra Wide 	- 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 55 - 5500lm 60 - 6000lm 70 - 7000lm 80 - 8000lm 100 - 10000lm 115 - 11500lm	- 227 2200K CRI70 277 2700K CRI70 3000K CRI70 4000K CRI70	- + Class I Class II	- A 220-240V	 G Sapphire Grey Silver B Black 	 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 	- S By Driver SF* Standard +Fuse U 10 kV UF* 10 kV +Fuse	 OO No cable 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.

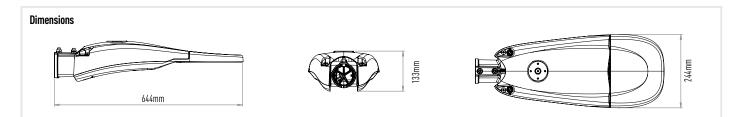
LIGHT SHIELDS			
TRS-BLSF	Front shield		
TRS-BLSR	Right shield		
TRS-BLSL	Left shield		
TRS-BLSB	Back shield		

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

LED Street/Area Luminaire



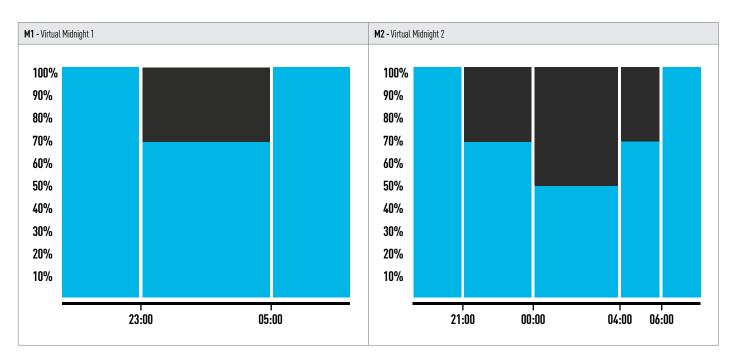
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Light engine	System Lumen Output (lm)	Power (W)	Efficacy (lm/W)	
	2024	13,2	153	
	2995	18,5	162	
A	3626	21,7	167	
	4211	24,7	170	
	5027	29,8	169	
	5507	32,7	168	
В	5985	35,4	169	
D	6538	38,7	169	
	7010	41,4	169	
	8023	47,4	169	
	9000	54,3	166	
C	9992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

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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

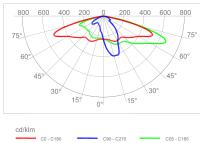
LED Street/Area Luminaire

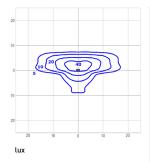


Photometry

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





TRSB-2-K07-B-80-407

Mounting Height: 6m

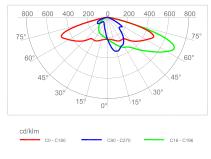
(15

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

lux

Luminous Intensity Class G*3 Glare Index D6

K09 - Medium Street



Luminous Intensity Class G*3 Glare Index D5

K11 - Medium Street

Luminous Intensity Class G*3

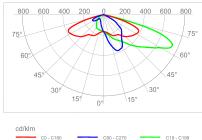
100 - Medium Street

Glare Index D5

cd/klm ______ C0 - C180

Glare Index D5

Luminous Intensity Class G*4



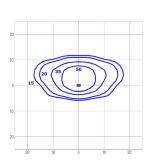
lux

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

500

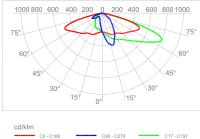
400

C22.5 - C202.5



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





200 400 600 800

30° 15°

75

60

45

C20 - C200

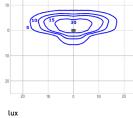
Luminous Intensity Class G*3 Glare Index D5

K10 - Medium Street

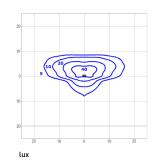
800 600 400 200

cd/klm

C0 - C180



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



TRSB-2-K10-B-80-407

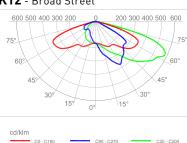
Mounting Height: 6m

Luminous Intensity Class G*3 Glare Index D5

C90 - C270

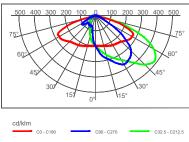
153

K12 - Broad Street

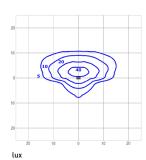


Luminous Intensity Class G*3 Glare Index D5

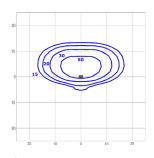
125 - Broad Street



Luminous Intensity Class G*4 Glare Index D6



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



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

C90 - C270

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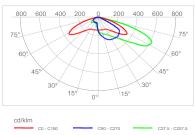


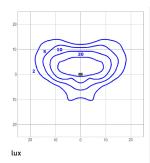
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Photometry

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

150 - Wide Street





TRSB-2-150-B-80-407

Mounting Height: 6m

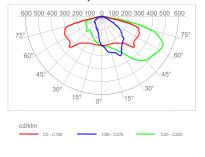
lux

TRSB-2-SCP-B-80-407

Mounting Height: 6m

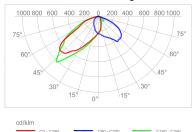
Luminous Intensity Class G*3 Glare Index D5

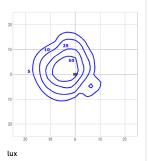
SCP - Street & Cycle Path



Luminous Intensity Class G*2 Glare Index D4

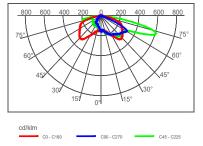
PCL - Pedestrian Crossing Left





Luminous Intensity Class G*6 Glare Index D5

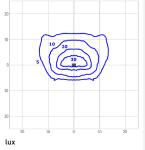
P25 - Pedestrian Extra Wide



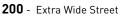
Luminous Intensity Class G*O Glare Index D4

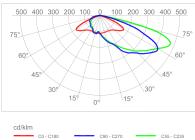
Mounting Height: 6m

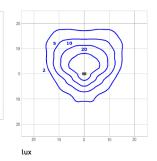
TRSB-2-PCL-B-80-407



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



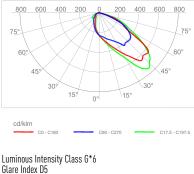


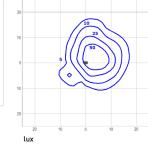


Luminous Intensity Class G*3 Glare Index D5

PCR - Pedestrian Crossing Right

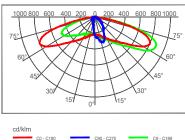
TRSB-2-200-B-80-407 **Mounting Height:** 6m



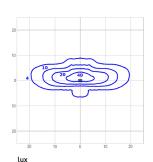


TRSB-2-PCR-B-80-407 Mounting Height: 6m

P05 - Pedestrian Narrow



Luminous Intensity Class G*1 Glare Index D4



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

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