











TRTLIGHTING
ROAD & TUNNEL SYSTEMS

LUZ

PowerSet



-  **IP65** Ingress Protection
-  **IK10** Bowl / **IK08** Top
-  **10.2kg** Weight
-  **0.14m²** Wind Area
-  **I** Electrical Class
-  **-20°C** Minimum Ambient
-  **30°C** Maximum Ambient
-  **LED** Light Source

SPECIFICATION

- LED colour temperature of 3000k or 4000k
- Colour rendering index > 70
- Projected L90 after 100,000 hours
- Power Factor 0.95 at full load
- High quality pressure die cast aluminium components
- Post top mounting of 76mm
- Full range of retrofit internal shields available
- UMSUG codes available for full product range
- In-built Ventilation (breather) Plug for pressure equalisation
- Supplied Pre-Cabled with Arctic Grade PVC flex
- CLO Available
- Light Grey or Black Finish
- Optional surge protection of 10kV/10kA
- Controls - NEMA 3, 5, 7, Miniature Photocell and Zhaga Book 18 (SR) Socket.
- UV Stabilised Polycarbonate Bowl
- Stainless Steel Fixing Screws with Stainless Steel Inserts in Gallery
- Part Night Dimming (PND) with manual override option
- DALI compatible for use with CMS
- Tool-less access

RANGE OVERVIEW

Type	System Power	Road Optics	Area Optics	CCT	Lumen Output	CRI
Luz 4 LED	14-50W	✓	✓	3000k or 4000k	Up to 5458lm	>70
Luz 8 LED	51-83W	✓	✓	3000k or 4000k	Up to 9096lm	>70
Luz 16 LED	85-137W	✓	✓	3000k or 4000k	Up to 16,282lm	>70



All information detailed within this datasheet is accurate at the date of issue. The information provided is subject to change at our discretion. If any questions arise or extra information is required, please contact TRT Lighting directly.

LUZ/PowerSet Luminaire Datasheet issue June 2019





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ELECTRICAL CHARACTERISTICS

	Luz 4 LED	Luz 8 LED	Luz 16 LED
System Power	14W-50W	51W-83W	85W-137W
LED CCT	3000k or 4000k		
LED CRI	>70		
Lumen Output	Up to 5,485lm	Up to 9,096lm	Up to 16,282lm
Lumen Maintenance	Projected L90 after 100,000 hours		
Drive Current	245-1000mA	502-827mA	446-700mA
Driver Output	Constant current output with AM dimming		
Power Factor (Full Load/Half Load)	0.95/0.90	0.95/0.90	0.95/0.90
Operational Voltage	220-240VACrms		
Operating Frequency	50/60Hz		
Inrush Current (Apk/50%-uS)	53A/200uS	57A/210uS	62A/330uS
Running Current	0.208A max	0.350A max	0.570A max
Surge Protection (COM/DIF)	10kV/6kV	8kV/6kV	8kV/6kV
Additional Surge Protection (on request)	10kV/10kA		
Lighting Controls Options	NEMA 3, 5, 7, Miniature Photocell, Zhaga Book 18 (SR) Socket, PND and CMS compatible		
Dimming Protocols	DALI		

MECHANICAL CHARACTERISTICS

Housing Material	High pressure die cast aluminium
Bowl Material	UV stabilised polycarbonate
Lens Material	PMMA
Housing Finish	Chromate free pre treatment Polyester powder coat Light Grey (RAL9006) Black (RAL9017)
Ingress Protection Rating	IP65
Weight	10.2kg
Wind Area	0.14m ²
Impact Resistance Rating	IK10 Bowl / IK08 Top
Mounting Methods	Post Top 76mm

SHIELDS OPTIONS

Universal (Front & Back)	83BAF71400
Side	83BAF71401

The PowerSet module option allows on site power adjustment providing maximum flexibility both in-situ and for stock holding.

Each module accommodates the selection of any one of the range of powers for the LUZ luminaire.



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