



TRTLIGHTING
ROAD & TUNNEL SYSTEMS

CHALIS

PowerSet



IP66 Ingress Protection



I Electrical Class



IK10 Bowl



-20°C Minimum Ambient



8kg Weight



30°C Maximum Ambient



0.14m² Wind Area



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 76mm
- Universal shield for front, back and sides available
- UMSUG codes available for full product range
- Tool-less access
- 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
- In-built Ventilation (breather) Plug for pressure equalisation
- Part Night Dimming (PND) with manual override option
- DALI compatible for use with CMS
- Supplied Pre-Cabled with Arctic Grade PVC flex

RANGE OVERVIEW

Type	System Power	Road Optics	Area Optics	CCT	Lumen Output	CRI
Chalis 4 LED	14-50W	✓	✓	3000k or 4000k	Up to 5847lm	>70
Chalis 8 LED	51-83W	✓	✓	3000k or 4000k	Up to 9745lm	>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.

Chalis/PowerSet Luminaire Datasheet issue April 2020





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ELECTRICAL CHARACTERISTICS

	Chalis 4 LED	Chalis 8 LED
System Power	14W-50W	51W-83W
LED CCT	3000k or 4000k	
LED CRI	>70	
Lumen Output	Up to 5,847lm	Up to 9,745lm
Lumen Maintenance	Projected L90 after 100,000 hours	
Drive Current	245-1000mA	502-827mA
Driver Output	Constant current output with AM dimming	
Power Factor (Full Load/Half Load)	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
Running Current	0.208A max	0.350A max
Surge Protection (COM/DIF)	10kV/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 (RAL9005)
Ingress Protection Rating	IP66
Weight	8.0kg
Wind Area	0.14m ²
Impact Resistance Rating	IK10 Bowl/IK08 Top
Mounting Methods	Post Top 76mm

SHIELDS OPTIONS

Universal - (Front/Rear/Side)	81BAF71353SV3
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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 Chalis luminaire.



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