



TRTLIGHTING
ROAD & TUNNEL SYSTEMS

CIRCA

FLAT



IP66 Ingress Protection



I Electrical Class



IK08 Cover | **IK10** Top



-20°C Minimum Ambient



9.5kg Weight



50°C Maximum Ambient
(Circa 8 LED limited to 25°C)



0.08m² Wind Area

SPECIFICATION

- LED Colour Temperature 3000K or 4000K
- Colour rendering index > 70
- Projected L90 after 100,000 hours
- Power Factor 0.95 at full load
- High Quality High Pressure Die Cast Aluminium Components
- Post Top Mounting 76mm or 60mm
- Toughened Flat Glass (0% ULOR) or Elliptical Glass covers available
- UMSUG codes available for full product range
- Side Entry Mounting of 34mm, 42mm, 60mm
- CLO Available
- Light Grey or Black Finish
- Optional Surge Protection 10kV/10kA
- Controls - NEMA 5, 7, Miniature Photocell and Zhaga Book 18 (SR) Socket
- Integral 3 hour emergency option
- Replacable gear tray and light engine
- Part Night Dimming (PND) with manual dimming 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
Circa 4 LED Flat Glass	14-50W	✓	✓	3000K & 4000K	Up to 5714lm	>70
Circa 8 LED Flat Glass	51-83W	✓	✓	3000K & 4000K	Up to 9943lm	>70
Circa 4 LED Curved Glass	14-50W	✓	✓	3000K & 4000K	Up to 5894lm	>70
Circa 8 LED Curved Glass	51-83W	✓	✓	3000K & 4000K	Up to 10,256lm	>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.

Circa Luminaire Datasheet issue April 2020





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ELECTRICAL CHARACTERISTICS

Type	Circa 4 LED Flat Glass	Circa 8 LED Flat Glass	Circa 4 LED Curved Glass	Circa 8 LED Curved Glass
System Power	14-50W	51-83W	14-50W	51-83W
LED CCT	3000k or 4000k			
LED CRI	>70			
Lumen Output	Up to 5714lm	Up to 9943lm	Up to 5894lm	Up to 10,256lm
Lumen Maintenance	Projected L90 after 100,000 hours			
Driver Current	245-1000mA	502-827mA	245-1000mA	502-827mA
Driver Output	Constant current output with AM dimming			
Power Factor (Full Load/Half Load)	0.95/0.90			
Operational Voltage	220-240VACrms			
Operating Frequency	50/60Hz			
Inrush Current (Apk/50%-uS)	53A/200uS	57A/210uS	53A/200uS	57A/210uS
Running Current (max)	0.208A max	0.350A max	0.208A max	0.350A max
Surge Protection (COM/DIF)	10kV/6kV	8kV/6kV	10kV/6kV	8kV/6kV
Additional Surge Protection (on request)	10kV/10kA			
Lighting Controls Options:	NEMA 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
Cover Material	Toughened Flat Safety Glass
Lens Material	PMMA
Housing Finish	Chromate free pre-treatment, Polyester powder coat, Light Grey (RAL9006), Black (RAL9005)
Ingress Protection Rating	IP66
Weight	9.5kg
Wind Area	0.08m ²
Impact Resistance Rating	IK08 Cover/IK10 Top
Mounting Methods	Post Top 60mm or 76mm/Side Entry 34mm, 42mm, 60mm or 76mm
Mounting Inclination	Rotational freedom in 5° steps

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 Circa luminaire.



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