

Starfield Downlight, Recessed Adjustable, White + RGBW Ring, 12W



Model No: TBC

DATASHEET

Introduction

A recessed LED luminaire that combines a central white-light constant-current spot surrounded by an RGBW constant-voltage halo ring to provide accent colours. A pair of cable connections are made from the Luminaire to its nearby Driver.

Key features

- Narrow beam spotlight with wider options
- Perfectly uniform colour mixing (no spotting)
- Recessed anti glare main light source
- Customised solid polymer optics
- Thin film optic beam shape options
- 2700K, 3000K, 4000K
- 97 CRI, full spectrum
- Variety of standard and custom finishes
- Drive Hub compatible using Starfield output card
- CE compliant
- 50,000 hour lifetime (L80)
- 5 year warranty



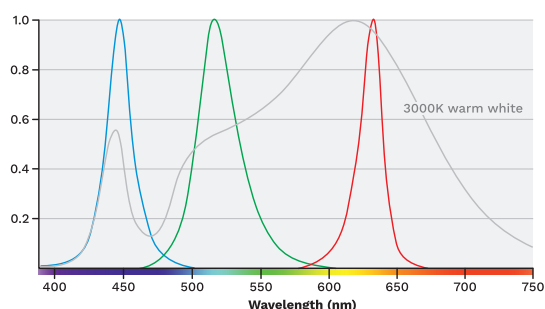
Specifications

Fitting Type	Recessed Downlight
Size	110mm Height x 140mm Diameter
Approximate Weight (g)	TBC
Beam Angle Options(°)	5/10/15/20
Elliptical Beam Angle Options(°)	1x60, 5x60, 10x60, 20x60
Optics	Solid Polymer
Finish	Black/White/Custom
IP Rating	IP20
Operating Temp (°C)	-20 to +75
Lifetime (L80)	L80@50,000
Hole Cut-Out (∅)	127mm (5")

RGBW Halo Ring (Constant Voltage)			
Colour	Forward Voltage (Vf)	Drive Current (If, mA, max.)	Max. Power (W)
Red	33	30	1
Green	33	30	1
Blue	33	30	1
White	33	30	1

Central Spot (Constant Current)	
Colour Temperature (K)	2700, 3000, 4000K
Colour Rendering Index	>97
Forward Voltage (Vf)	12
Drive Current (If, mA, max.)	600
Total Power Max (W)	7.2
Lumen Output (lm)	300
Lumen Efficacy (lm/w)	42

Relative Spectral Distribution

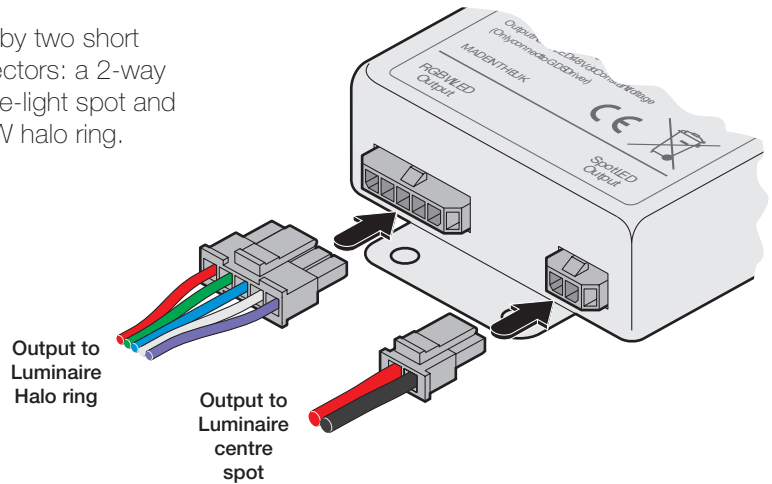


Driver Connection

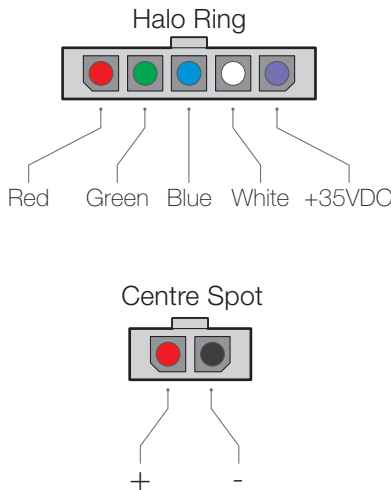
Driver input voltage:	48VDC (From distribution unit)
Driver maximum power:	12W
Driver connector(s):	RJ45 (2 off)
	Molex Micro-Fit (single-row) 2-way
	Molex Micro-Fit (single-row) 5-way

Driver to Luminaire connection

Each Luminaire is linked to its accompanying Driver by two short leads which are terminated in Molex Micro-Fit connectors: a 2-way connector (Molex #43645-0200) for the central white-light spot and a 5-way version (Molex #43645-0500) for the RGBW halo ring.



Luminaire connector pin-outs



Luminaire DMX Address layout

Each Luminaire requires six DMX channels, which are designated as follows:

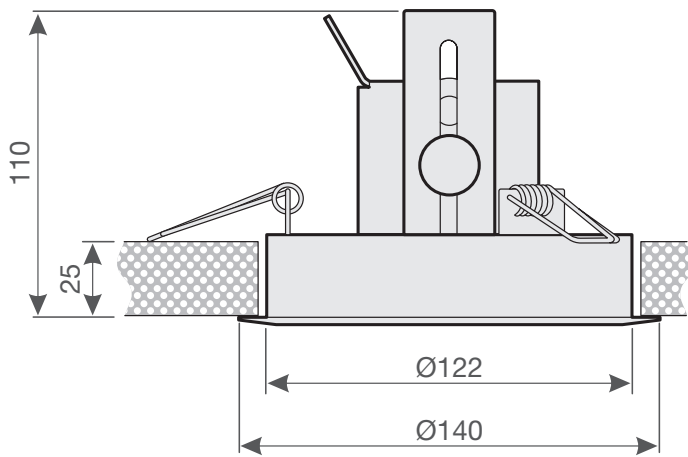
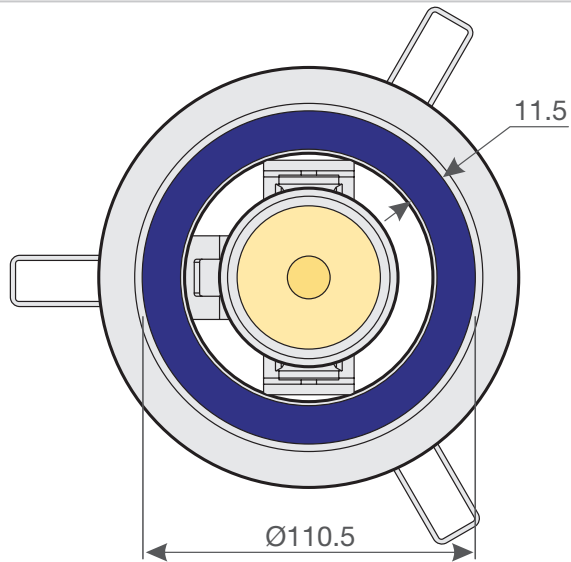
DMX Channel	Function
Start Address	Centre spot: PWM dimming
Start Address + 1	Centre Spot: CC Adjust
Start Address + 2	Halo ring: Red
Start Address + 3	Halo ring: Green
Start Address + 4	Halo ring: Blue
Start Address + 5	Halo ring: White

The second DMX channel (Centre spot: CC adjust) provides an alternative way to dim the centre spot without using Pulse Width Modulation (as used by the first channel). The CC adjust method varies the constant current supply to the emitter (more akin to an analogue fader), thereby eliminating any chance of PWM flicker in certain applications, particularly at low intensity levels.

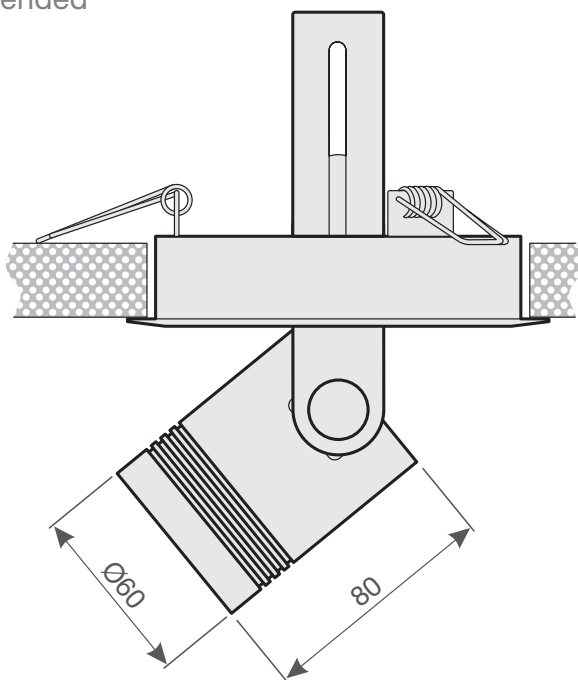
Specifications are subject to change without notice.

Dimensions

Required hole cut-out
Ø127mm (Ø5") hole saw cutter



Luminaire with centre spot extended



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