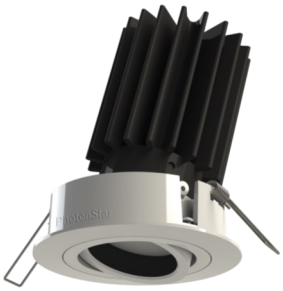
Cryos

Fully Adjustable Architectural Downlight with Darklight Baffle

V20180314



CYAD
Architectural
Downlight

- ✓ Equivalent illumination to 50W LV to 100W halogen
- ✓ Very narrow beams available
- ✓ 361° rotation & 25° tilt
- ✓ Excellent efficacy of up to 88 luminaire lumens per circuit Watt
- ✓ Up to 1587 delivered lumens
- ✓ Dimming & emergency options available
- ✓ Dimensionally & aesthetically equivalent to MR16

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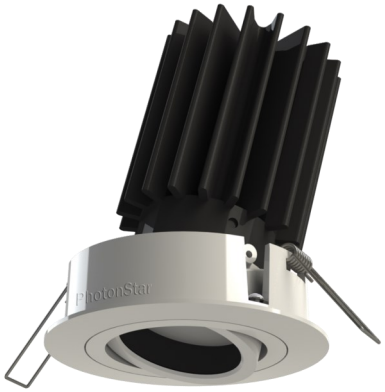


Overview:

- ✓ Fully adjustable downlight to replace 50W LV—100W halogen
- ✓ Efficacy of up to 88 luminaire lumens per circuit Watt
- ✓ Up to 1587 delivered lumens
- ✓ Cost effective die-cast aluminium construction

Finish(es): Matt White (MW)

Option(s): Non-Self Test Emergency (-E),
Self Test & DALI Addressable Emergency (-D)

NB (Emergency Options):
Options not available for ChromaWhite2.0™ light engines, please use standalone emergency luminaires.
Adjustable versions will be mechanically locked at factory.
For emergency BLF %, please see our Emergency Pack Data Sheets.

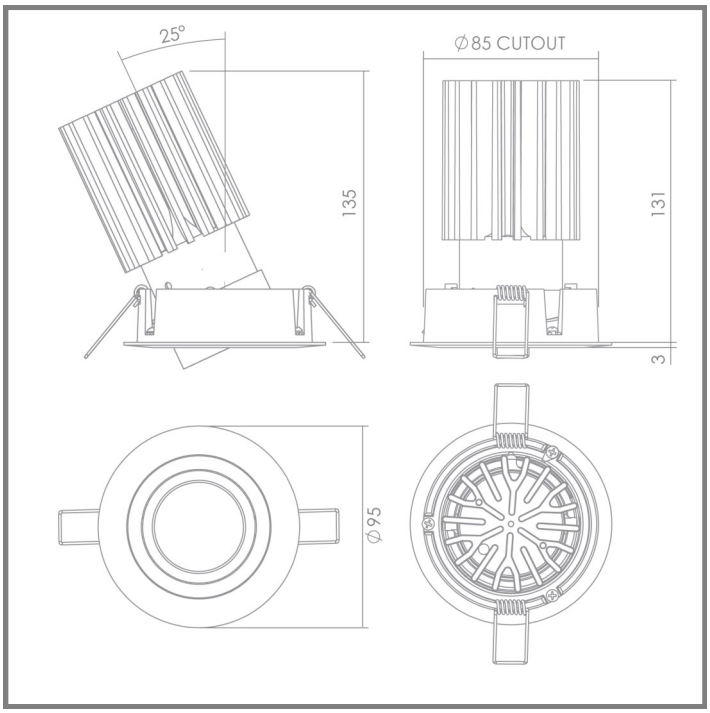
Optic Options:

Type	Angle	Code	LOR	Notes
Aluminium Reflector	15°	/NS	75	1
Aluminium Reflector	24°	/NF	82	1
Aluminium Reflector	36°	/FL	85	1

NB (Optics):
Beam angle is measured half value.
1 is Kestrel light engines only.

Technical Drawing:

Weight: 423g



NB (Technical Drawing):
All dimensions in mm. Weight excludes driver.

Light Engines:

Name	Code	Performance
Kestrel 1 910	/KT1-910	See Light Engine Data Sheet
Kestrel 1 1250	/KT1-1250	See Light Engine Data Sheet
Kestrel 1 1650	/KT1-1650	See Light Engine Data Sheet
Kestrel 1 2200	/KT1-2200	See Light Engine Data Sheet

NB (Light Engines):
Performance may vary depending upon luminaire bezel choice and accessory.
All figures +/- 10% and specified at 25°C ambient unless stated.
CRI shift at 6000 hours remains within 3 points of the rated CRI.

Order Codes:

e.g. CYADMW/KT1-910-830/FL/AND

Product	Finish	Light Engine—Lumens	Photometric Code	Beam	Drivers	Options
CYAD	MW	/KT1-910	-827 -830 -840	/NS /NF /FL	/AND /ATD /A10 /ADL /0DV	-E -D
		/KT1-1250	-827 -830 -840	/NS /NF /FL	/AND /ATD /A10 /ADL /0DV	-E -D
		/KT1-1650	-827 -830 -840	/NS /NF /FL	/AND /ATD /A10 /ADL /0DV	-E -D
		/KT1-2200	-827 -830 -840	/NS /NF /FL	/AND /ATD /A10 /ADL /0DV	-E -D

NB: (Drivers)
Recommended driver, Power factor >0.9, see driver data sheets for full data.
Please check with the PhotonStar™ sales team for compatible dimmers.
Only use shielded CAT6e cable with DMX drivers/controllers.
ChromaWhite2.0™ DMX controllers require a low voltage PSU.

Kestrel

High Output Replacement for 50W MR16 Halogen

V20180314

All data is at colour temperature 3000K, CRI Ra80 (photometric code: 830).
Also available as 'Standard' in 4000K, CRI Ra80 (photometric code: 840); and 2700K, CRI Ra80 (photometric code: 827).
'Special Order' also available in 2700K, Ra90; 3000K, Ra90; 4000K, Ra90. Contact our sales team for more information.

Performance Data:

	Kestrel 910	Kestrel 1250	Kestrel 1650	Kestrel 2200	
Description					
Order Code	KT1-910	KT1-1250	KT1-1650	KT1-2200	
Equivalence					
Light Engine Power (W)	5.9W	8.6W	12.2W	17.8W	
Source Lumens (lm)	916 lm	1248 lm	1650 lm	2165 lm	
CRI	80	80	80	80	
CCT (K)	3000K	3000K	3000K	3000K	
Source Efficiency (lm/W)	155 lm/W	145 lm/W	135 lm/W	122 lm/w	
Number of Channels	1	1	1	1	
Voltage (V)	16.9V	17.2V	17.4V	17.8V	
Current (mA)	350mA	500mA	700mA	1000mA	
Optic	Aluminium Reflector	Aluminium Reflector	Aluminium Reflector	Aluminium Reflector	
Beam Angle Options & (Code)*	15° (NS)	15° (NS)	15° (NS)	15° (NS)	
	24° (NF)	24° (NF)	24° (NF)	24° (NF)	
	36° (FL)	36° (FL)	36° (FL)	36° (FL)	
	-	-	-	-	
	-	-	-	-	
Board Manufacturer	PhotonStar™	PhotonStar™	PhotonStar™	PhotonStar™	
LED Chip Type	CREE CXB1512	CREE CXB1512	CREE CXB1512	CREE CXB1512	
Initial/Maintained SDCM	<3 / <3	<3 / <3	<3 / <3	<3 / <3	
Rated Life (L70F10)	50,000 hrs	50,000 hrs	50,000 hrs	50,000 hrs	
Lumen Maint. Cat.	Cat 1 / Code 9	Cat 1 / Code 9	Cat 1 / Code 9	Cat 1 / Code 9	
Order Code Example	LRF1M W/KT1-910-830/NF/AND	LRF1M W/KT1-1250-830/NF/AND	LRF1M W/KT1-1650-830/NF/AND	LRF1M W/KT1-2200-830/NF/AND	
Luminaire Example	LRF1 830 24deg	LRF1 830 24deg	LRF1 830 24deg	LRF1 830 24deg	
System Power (SysW)**	7.6W	11.0W	15.6W	22.8W	
Delivered Lumens (llm)	751 llm	1023 llm	1353 llm	1775 llm	
Delivered Efficacy (llm/cW)	99 llm/cW	93 llm/cW	87 llm/cW	78 llm/cW	
Driver & Controller Options * (Code)**	None (/ODV)	None (/ODV)	None (/ODV)	None (/ODV)	
	Non-Dim (/AND)	Non-Dim (/AND)	Non-Dim (/AND)	Non-Dim (/AND)	
	Trailing Edge Dim (/ATD) †	Trailing Edge Dim (/ATD) †	Trailing Edge Dim (/ATD) †	Trailing Edge Dim (/ATD) †	
	1-10V Dim (/A10) †	1-10V Dim (/A10) †	1-10V Dim (/A10) †	1-10V Dim (/A10) †	
	DALI (/ADL)	DALI (/ADL)	DALI (/ADL)	DALI (/ADL)	
	-	-	-	-	
	-	-	-	-	
Emergency Output factor EOFi / BLF	43.14%	30.20%	21.57%	15.10%	

NB: All figures +/- 10% and specified at 25ºC ambient unless stated. Data in grey is indicative.
CRI shift at 6000 hours remains within 3 points of the rated CRI.
Power factor > 0.9, see driver data sheet for full data.

* Measured, half value angle (/code). ** with recommended driver.
† Please check with PhotonStar™ sales team for compatible dimmers.
# Only use shielded CAT6e cable. ChromaWhite2.0™ light engine controllers require low voltage PSU.

Lumen Adjustment Factor for CCT Across Tuning Range:

Photometric Code:	827	830	840	865	927	930	940	965	-
Conversion Factor:	0.94	1.00	1.00	-	-	-	-	-	-

Available in the Following Luminaires:

✓ Cryos ✓ Lorem