

Innovative Optical Chamber
Design



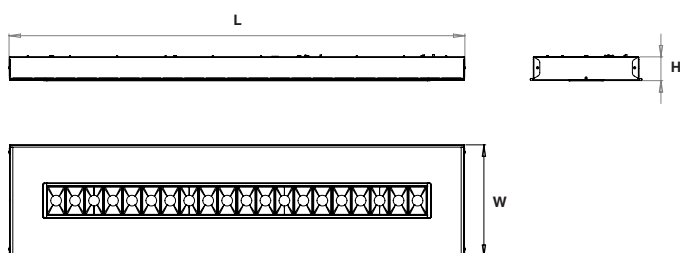
Key Family Details

Optical System:	Hybrid black optical chambers and diffuser
Mounting Type:	Exposed T-Bar
Colour Consistency Initial:	3 SDCM
Finish Options:	Standard white. Other finish options via customisation
System Warranty:	5 years
CCT:	4000K
CRI (Ra):	90+
R9:	50+
COI Compliant:	Yes (≤ 2.7)
Melanopic Ratio	> 0.70
Circadian Stimulus CS [%] (*)	12
Circadian Light Cla [lux] (*)	84

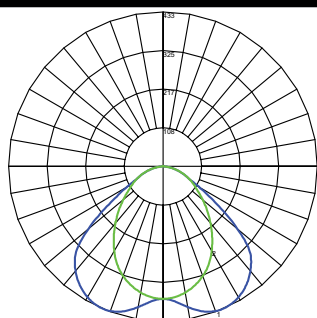
(*): CS and Cla values are calculated for 150lux photopic corneal illumination and provided as a guide only.

Mechanical Drawing

Physical Parameters	Luminaire Dimensions			Aperture Size		Cutout Size		Weight
Code	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	Acout [mm]	Bcout [mm]	[kg]
EL-CIR-1114 ... -1116	1194	293	60					6.8
EL-CIR-1117 ... -1118	1494	293	60					8.5
EL-ACC-430-000		Circadia Restraining Kit Incl 4x Gripple, 2x 2m Wire						

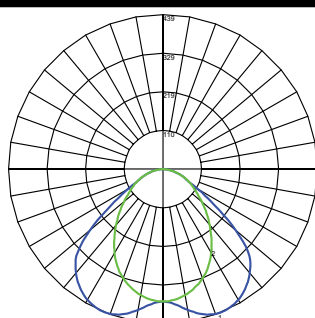


Polar Curve 1200x300 940



Maximum Candela = 433cd/klm
Located At Horizontal Angle = 90, Vertical Angle = 22.5

Polar Curve 1500x300 940



Maximum Candela = 439cd/klm
Located At Horizontal Angle = 90, Vertical Angle = 23

Application

Circadia is a new premium office luminaire family designed for workplace wellness, productivity and sustainability.

With its dual light component design consisting of a diffuse element and a central array of optical chambers, Circadia provides premium quality, low-glare illumination for the modern workplace.

Delivering a sense of comfort, wellbeing and harmony for occupants with minimal energy consumption, Circadia is the product of choice for asset owners looking to achieve or enhance the WELL, Green Star, NABERS or other sustainability performance rating of their buildings.

Design

Innovative optical chamber design delivers optimal wide beam distribution with low glare.

Made from advanced microstructured film that offers controlled batwing light distribution, Circadia's diffuse element allows for wider spacing with fewer luminaires required in the lighting array, making it a cost-effective solution for new fitouts and retrofit projects alike.

Diffuse aperture also provides a pleasant transition between ceiling and light source.

The product exceeds BCA 2019/J6 requirements via optimised beam distribution.

Optics

Black optical chambers with internal diffusers form the primary, task lighting component whilst an independent light source is used to create the diffuse peripheral component.

Control

Organic Response Technologies Sensor Node 3 (SN3) is the standard sensor control offering with the Circadia fixed-CCT variants. Other sensor control methods are available upon request.

Circadian Lighting

The combination of LED chips with the right spectral distribution and an optimum beam distribution achieves ideal vertical illuminance levels with high Circadian Stimulus (CS) and Circadian Lighting (Cla) values.

Lifetime

Constant Light Output (CLO) feature comes as standard across the range and ensures no lumen depreciation for the lifetime of the product.

Light Quality

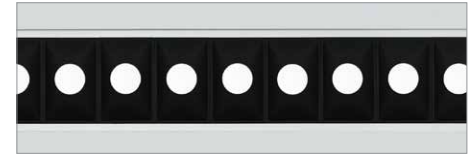
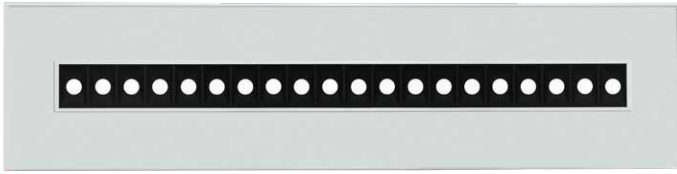
CRI90+ as standard with R9>50, COI compliant (4000K), initial colour consistency better than 3 SDCM.

Installation

Easy to install and an attractive option at only 60mm thickness, the Circadia is suitable for locations where limited ceiling depth is a concern.

Mounting Options

- Recess Kit
- Surface Mounted Kit



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320 Lux Target Illuminance

Code	Power Initial CLO [W]	Final Power CLO [W]	Systems Lumens [lm]	Luminaire Lumens [lm]	Efficacy Initial [lm/W]	Nominal Size [mmxmm]	Spacing (h=2.7m) [m x m]	Final W/m2 CLO	Calculated UGR max	LLMF L100B50 [hrs]
										LM80 duration: 12,000hrs
EL-CIR-1114-044	26	32	3,800	2420	93	1200x300	2.4m x 2.7m	4.94	19	72,000
EL-CIR-1115-044	28	34	4,050	2588	94	1200x300	2.4m x 3.0m	4.72	19	72,000
EL-CIR-1117-044	28	35	4,100	2674	95	1500x300	3.0m x 2.5m	4.67	19	72,000
EL-CIR-1118-044	33	42	4,950	3243	97	1500x300	3.0m x 3.0m	4.67	19	72,000
EL-ACC-430-000	Circadia Restraining Kit Incl 4x Gripple, 2x 2m Wire									

400 Lux Target Illuminance

Code	Power Initial CLO [W]	Final Power CLO [W]	Systems Lumens [lm]	Luminaire Lumens [lm]	Efficacy Initial [lm/W]	Nominal Size [mmxmm]	Spacing (h=2.7m) [m x m]	Final W/m2 CLO	Calculated UGR max	LLMF L100B50 [hrs]
										LM80 duration: 12,000hrs
EL-CIR-1116-044	34	42	5,000	3215	95	1200x300	2.4m x 3.0m	5.83	19	72,000
EL-ACC-430-000	Circadia Restraining Kit Incl 4x Gripple, 2x 2m Wire									

Design Parameters: LLF=0.80 (Nominal), Room Reflectances (C/W/F): 0.70/0.50/0.20, Ceiling height=2.7m, Eh @0.72m AFFL.

N.B. All optical data shown above is valid for the versions with black chambers.

Surface Mount Kits

Code	Length [mm]	Width [mm]	Height [mm]	Standard Finish [**]
EL-ACC-896-000	600	300	80	White
EL-ACC-897-000	1200	300	80	White
EL-ACC-898-000	1500	300	80	White

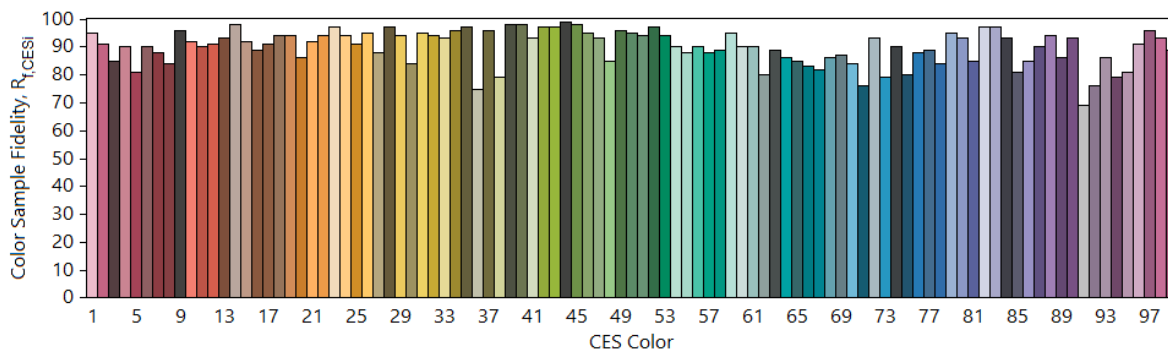
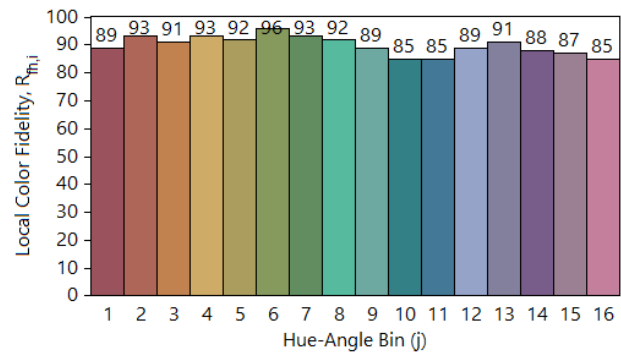
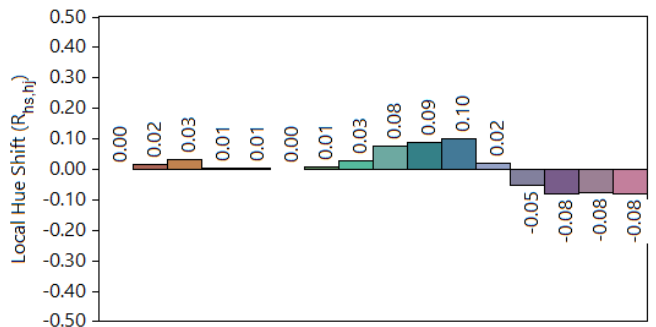
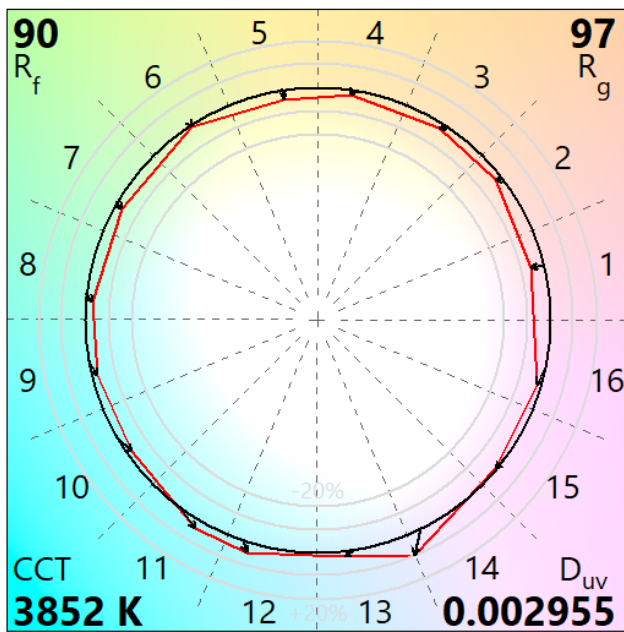
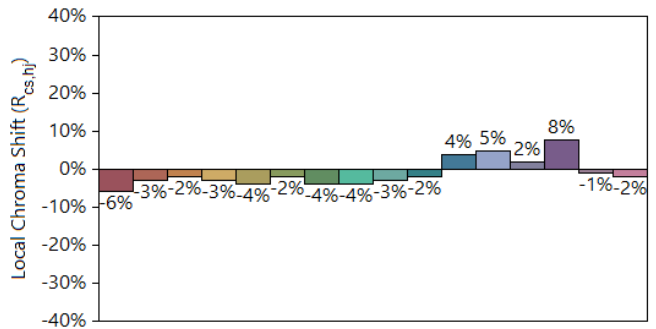
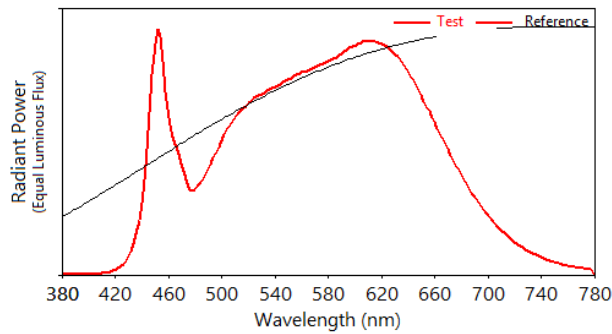
[**]: Other finish options available via customisation

Wiring options

Suffix

Standard	-044
DALI/STD terminal block	-244
Organic Response	-954

EL-CIR-1114 - 26W 3800LM 940 1200x300



Notes: Representative of all EL-CIR-11xx-xxx Fixed CCT 940 with black optical chambers.

x 0.389562
y 0.388732
u' 0.226303
v' 0.508098

CIE 13.3-1995
(CRI)
 R_a 92
 R_g 56