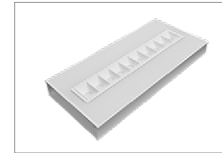
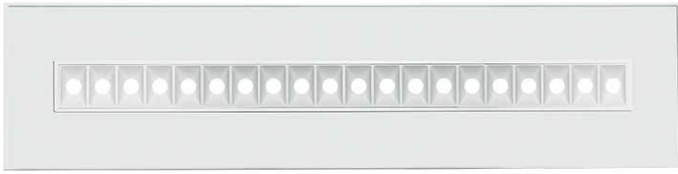
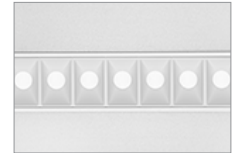


Circadia



Circadia 600x300



Innovative Optical Chamber Design



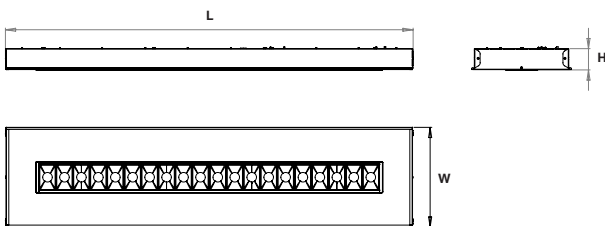
Key Family Details

Optical System:	Hybrid white 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 (= < 2.8)
Melanopic Ratio	> 0.72
Circadian Stimulus CS [%] (*)	12
Circadian Light Cla [lux] (*)	85

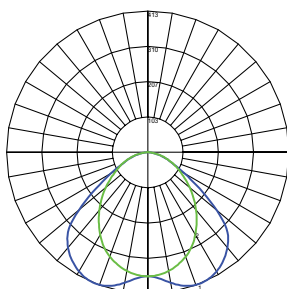
(*): CS and Cla values are calculated for 150lux photopic corneal illumination and provided as a guide only.

Mechanical Drawing

Physical Parameters	Luminaire Dimensions			Aperture Size		Cutout Size		Weight
Code	L [mm]	W [mm]	H [mm]	D [mm]	E [mm]	Acout [mm]	Bcout [mm]	[kg]
EL-CIR-1108 ... -1113	594	293	60					3.8
EL-CIR-1100 ... -1105	1194	293	60					6.8
EL-CIR-1106 ... -1107	1494	293	60					8.5
EL-ACC-430-000	Circadia Restraining Kit Incl 4x Gripple, 2x 2m Wire							

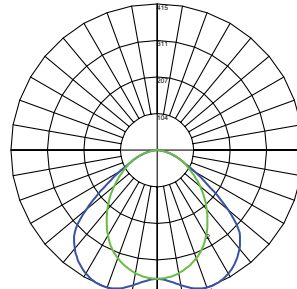


Polar Curve 1200x300 940



Maximum Candela = 413cd/klm
Located At Horizontal Angle = 90, Vertical Angle = 22

Polar Curve 1500x300 940



Maximum Candela = 415cd/klm
Located At Horizontal Angle = 90, Vertical Angle = 22

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

White 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 that there is no lumen depreciation for the lifetime of the product.

Light Quality

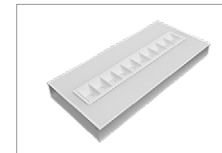
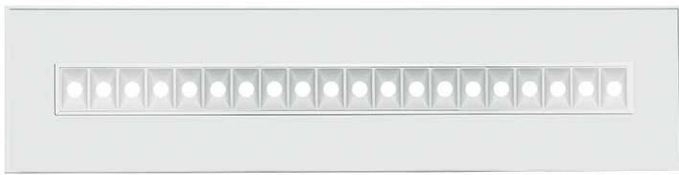
CR190+ as standard with R9>50, COI compliant (4000K), initial colour consistency better than 3 SDCM.

Installation

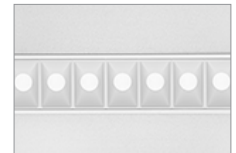
Easy to install and an attractive option at only 60mm thickness, the Circadia is suitable for locations where limited ceiling depth is a concern.

Mounting Options

- Recess Kit
- Surface Mounted Kit



Circadia 600x300



Innovative Optical Pod Design

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-1100-044	20	24	2,850	2,166	108	1200x300	2.4m x 2.4m	3.48	19	72,000
EL-CIR-1101-044	22	26	3,150	2,413	109	1200x300	2.4m x 2.7m	4.01	19	72,000
EL-CIR-1102-044	23	28	3,400	2,574	110	1200x300	2.4m x 3.0m	3.89	19	72,000
EL-CIR-1106-044	24	28	3,450	2,689	113	1500x300	3.0m x 2.5m	3.73	19	72,000
EL-CIR-1107-044	30	35	4,350	3,416	115	1500x300	3.0m x 3.0m	3.34	19	72,000
EL-CIR-1108-044	11	13	1,450	1,089	100	600x300	n/a	n/a	n/a	72,000
EL-CIR-1109-044	12	14	1,650	1,230	101	600x300	n/a	n/a	n/a	72,000
EL-CIR-1110-044	13	15	1,750	1,310	102	600x300	n/a	n/a	n/a	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-1103-044	24	29	3,500	2,676	110	1200x300	2.4m x 2.4m	5.04	19	72,000
EL-CIR-1104-044	27	32	3,900	2,968	111	1200x300	2.4m x 2.7m	4.94	19	72,000
EL-CIR-1105-044	29	34	4,200	3,206	112	1200x300	2.4m x 3.0m	4.72	19	72,000
EL-CIR-1112-044	15	17	2,050	1,521	103	600x300	n/a	n/a	n/a	72,000
EL-CIR-1113-044	16	19	2,250	1,667	105	600x300	n/a	n/a	n/a	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 white 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

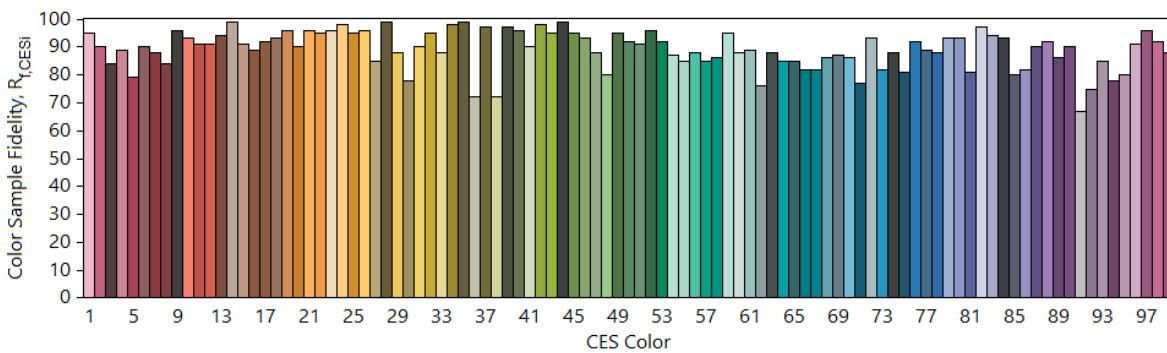
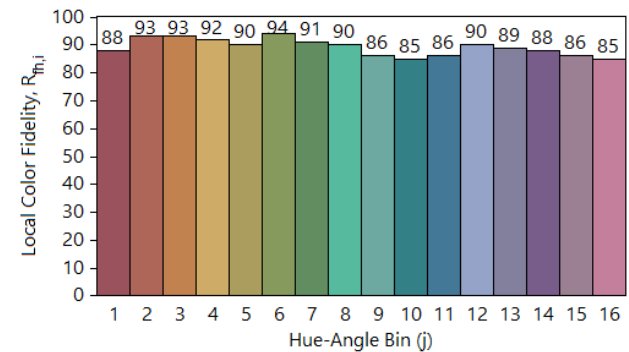
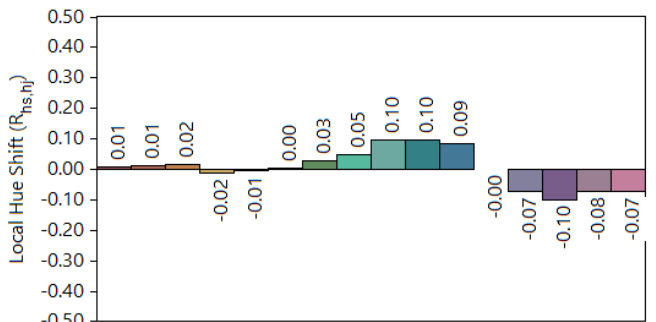
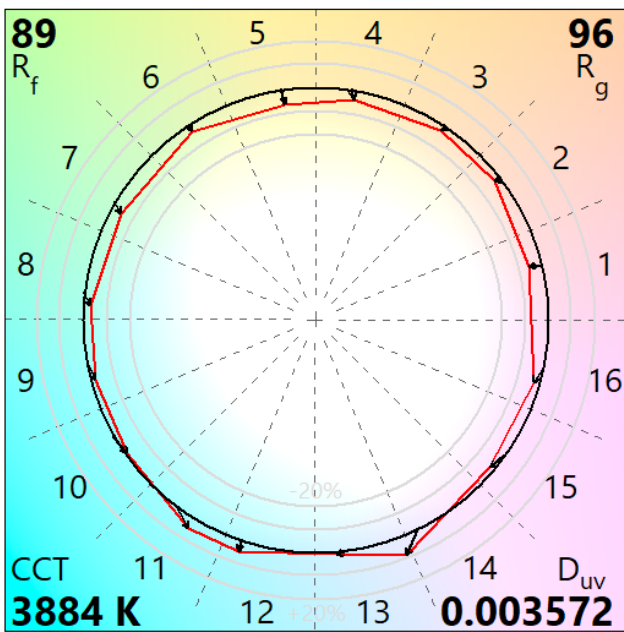
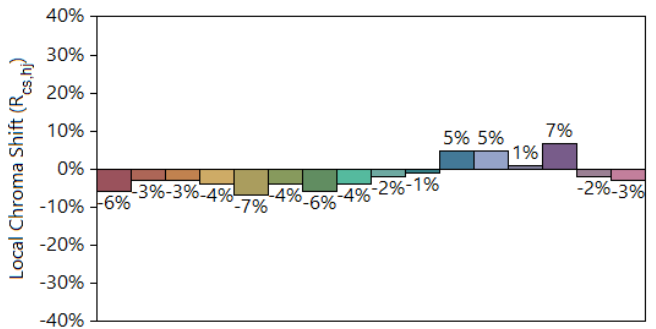
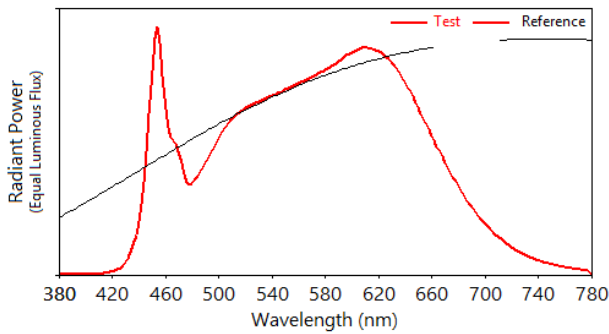
[**]: Other finish options available via customisation

Wiring options

Suffix

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

EL-CIR-1100 - 20W 2850LM 940 1200x300



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

x 0.388478
 y 0.389458
 u' 0.225318
 v' 0.508243

CIE 13.3-1995
 (CRI)
 R_a 92
 R_g 56

