



## CLEANROOM LED IP44 COI (CRI 90+)



Designed to assist healthcare workers to detect cyanosis and other colour changes in the skin or body tissues, the Cleanroom IP44 Cyanosis LED is COI compliant.

The LED boards used in this Cleanroom luminaire emit an increased amount of light between 620 and 700 nanometres (red wavelength) compared to standard LED boards. This range of light is optimal for detecting changes in skin tone. Dimming the luminaire does not affect its COI compliance.

The wipe-down Delta diffuser is made up of a micro-prism louver in acrylic (PMMA) with a thin opal diffuser on the inside. This provides excellent glare control whilst delivering optimal lumens out of the luminaire.

The Cleanroom range of luminaires has been developed to meet the requirements of specialist installations, where the luminaire requires protection against contamination. This range is rated IP44 from all angles.

Seismic restraint enabled.

Options:

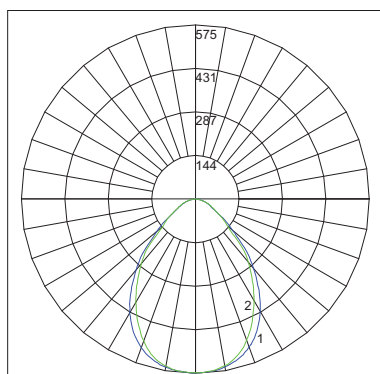
- » T-Bar
- » Surface Mounted
- » Top Access
- » Sandwich Panel
- » Emergency
- » Non Monitored Emergency
- » DALI Monitored Emergency

W	Size	System lm	lm	lm/W	K	CRI	COI	Code
Cleanroom IP44 - DELTA								
16	660 x 330	2200	1422	89	4000	95	1.8	EL-CR44L-3102-
23	660 x 330	3100	2047	88	4000	95	2.0	EL-CR44L-3103-
30	660 x 660	4100	2843	96	4000	95	2.0	EL-CR44L-5102-
49	660 x 660	6100	4353	90	4000	94	2.0	EL-CR44L-5103-
30	1220 x 330	4100	2839	96	4000	95	2.0	EL-CR44L-1102-
49	1220 x 330	6100	4277	88	4000	95	2.1	EL-CR44L-1103-

	Seismic Restraint Kit - 4 x gripple, 2 x 2m wire	EL-ACC-210-000
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All photometric, spectrometric and electrical data have a tolerance of ±10%.

Wiring options	Suffix
Standard	-000
DALI/STD terminal block	-200
Standard/Fused terminal block	-400
DALI/Fused terminal block	-600
Maintained Emergency	-800
Maintained DALI Monitored Emergency	-801

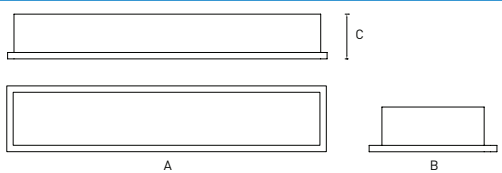


EL-CR44L (1220x330)  
Maximum Candela = 609.4 cd/klm  
# 1 - Vertical Plane Through Horizontal Angles (270 - 90)  
# 2 - Vertical Plane Through Horizontal Angles (0 - 180)

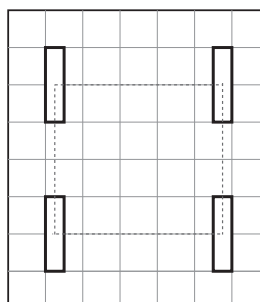
### Technical specifications

Luminaire Efficacy: ≥88lm/w (CRI 90+)
MacAdam 3 SDCM Initial
CRI: ≥94
R <sub>g</sub> : ≥73
COI: ≤2.2
LLMF (Lamp Lumen Maintenance Factor): TM21 L <sub>90</sub> (12k) = 38,000hrs
System guarantee 5 years
30W: 1.26W/m <sup>2</sup> /100 lux
49W: 1.32W/m <sup>2</sup> /100 lux

### Nominal dimensions (mm)



Fitting	A	B	C	kg.	Cutout
660 x 330	660	330	100	6.1	635 300
660 x 660	660	660	100	9.9	635 635
1220 x 330	1220	330	100	9.9	1195 300



### Performance Summary - Standard COI 940

<b>Spacing</b>	
2.4m x 2.4m - 30W	= 409 lux
2.4m x 2.4m - 49W	= 617 lux
<b>Design parameters</b>	
Maintenance	0.8
Reflectance	70/50/20
Ceiling height	2.7m
Working plane	0.72m

# TM30-15 data - CR44L

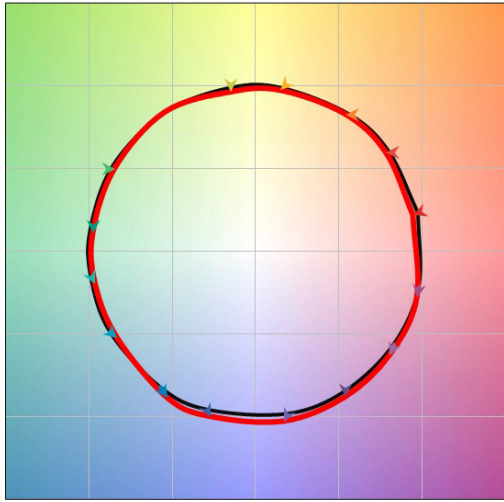
## Product Summary - EL-CR44L-1102 (CRI 90)

W	Size (mm)	Sys. lm	Lum. lm	lm/W	LER
30	1220x330	4100	2839	96	290

## TM30-15 Data

$R_f$	$R_g$	$R_{f\text{skin}}$
93	100	95

COLOR VECTOR GRAPHIC



— Reference Illuminant — EL-CR44L-1102 (940)

COLOR DISTORTION GRAPHIC

