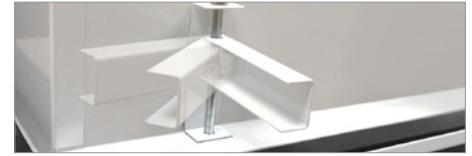


# Operating Theatre Light



Unique overlapping design



Closed cell gasket & Installation brackets



## Application

This range has been engineered specifically for hospitals, emergency and veterinarian operating theatres.

## Design

The LED Operating Theatre Light has been developed as a unique solution, meeting the requirements of specialist operating theatre installations where a fully sealed luminaire is needed to prevent contamination of the secure environment.

## Optics

Glare Reducing Delta Diffuser coupled with Microstructured Control Film and an acrylic clear wipe-down layer on the outside.

## Control

The luminaire can be installed with separate switching/dimming depending on requirements.

## Installation

Plaster Recessed ceiling installation. Installation needs to be done based on the selected layout (typically 3x3) and using the special Start, Intermediate, Corner and End models as required by the layout. The singular model must only be used for standalone installations.

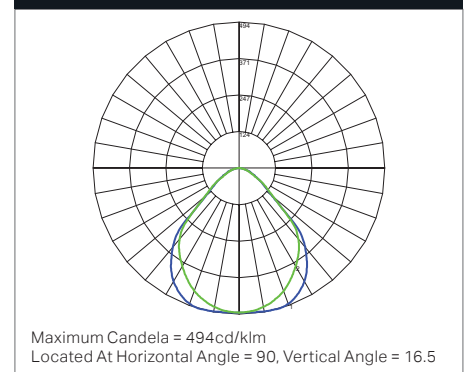
## Emergency

Non-monitored and DALI-monitored Emergency options are available.

## Notes

- Lengths are customisable on request.
- Additional light sources including Green, Blue, Royal Blue, Red and Deep Red are also available to suit varied operating theatre requirements.
- Antimicrobial powder coating as standard

## Polar Curve 1251x381 940

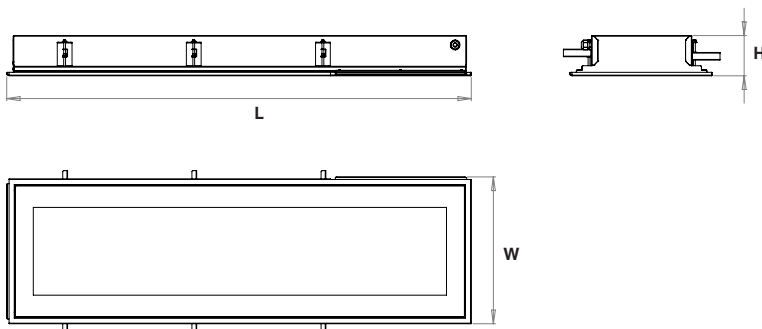


## Key Family Details

Optical System:	Delta Diffuser + Microstructured Control Film + Acrylic Clear Wipedown
Mounting Type:	Plaster Recessed
Colour Consistency Initial:	3 SDCM
Finish Options:	Standard White. Other finishes via customisation
System Warranty:	5 years
CRI (Ra):	90+
CCT:	4000K
R9:	65+
COI Compliant:	Yes (<=2.2)
Melanopic Ratio	0.72

## Mechanical Drawing

Physical Parameters	Luminaire Dimensions			Aperture Size		Cutout Size		Weight
	Code	L [mm]	W [mm]	H [mm]	D [mm]	E [mm]	A <sub>cut</sub> [mm]	
EL-OPSL-1110	1254	381	105	-	-	1230	360	13
EL-OPSL-1111	1254	381	105	-	-	1230	360	13
EL-OPSL-1112	1251	381	105	-	-	1230	360	13
EL-OPSL-1113	1251	381	110	-	-	1230	360	13
EL-OPSL-1114-...-1118	1254	381	105	-	-	1230	360	13
EL-OPSL-1119	1251	381	105	-	-	1230	360	13
EL-OPSL-1120	1251	381	110	-	-	1230	360	13
EL-OPSL-1121-...-1123	1254	381	105	-	-	1230	360	13
EL-ACC-210-000	Restraint Kit - 4 x gripple, 2 x 2m wire							



# Operating Theatre Light



## 800+ lux Illuminance Target

Code	Power [W]	Systems Lumens [lm]	Luminaire Lumens [lm]	Efficacy [lm/W]	Size [mmxmm]	Type	Illuminance* [lux]	Calculated UGR max	LLMF TM21 L90 [hrs]	Lifetime TM21 L70 [hrs]
									LM80 duration: 12,000hrs	
EL-OPSL-1110-	40	6000	4249	106	1254x381	Corner A	856	19	52,000	>72,000
EL-OPSL-1111-	40	6000	4249	106	1254x381	Corner B	856	19	52,000	>72,000
EL-OPSL-1112-	40	6000	4249	106	1251x381	Intermediate	856	19	52,000	>72,000
EL-OPSL-1113-	40	6000	4249	106	1251x381	Intermediate - Through Access	856	19	52,000	>72,000
EL-OPSL-1114-	40	6000	4249	106	1254x381	Start	856	19	52,000	>72,000
EL-OPSL-1115-	40	6000	4249	106	1254x381	End	856	19	52,000	>72,000
EL-OPSL-1116-	40	6000	4249	106	1254x381	Single	856	19	52,000	>72,000
EL-ACC-210-000	Restraint Kit - 4 x gripple, 2 x 2m wire									

(\*) Working plane @ 1000mm

## 1000+ lux Illuminance Target

Code	Power [W]	Systems Lumens [lm]	Luminaire Lumens [lm]	Efficacy [lm/W]	Size [mmxmm]	Type	Illuminance* [lux]	Calculated UGR max	LLMF TM21 L90 [hrs]	Lifetime TM21 L70 [hrs]
									LM80 duration: 12,000hrs	
EL-OPSL-1117-	51	7400	5256	104	1254x381	Corner A	1058	19	52,000	>72,000
EL-OPSL-1118-	51	7400	5256	104	1254x381	Corner B	1058	19	52,000	>72,000
EL-OPSL-1119-	51	7400	5256	104	1251x381	Intermediate	1058	19	52,000	>72,000
EL-OPSL-1120-	51	7400	5256	104	1251x381	Intermediate - Through Access	1058	19	52,000	>72,000
EL-OPSL-1121-	51	7400	5256	104	1254x381	Start	1058	19	52,000	>72,000
EL-OPSL-1122-	51	7400	5256	104	1254x381	End	1058	19	52,000	>72,000
EL-OPSL-1123-	51	7400	5256	104	1254x381	Single	1058	19	52,000	>72,000
EL-ACC-210-000	Restraint Kit - 4 x gripple, 2 x 2m wire									

(\*) Working plane @ 1000mm

### Wiring options

### Suffix

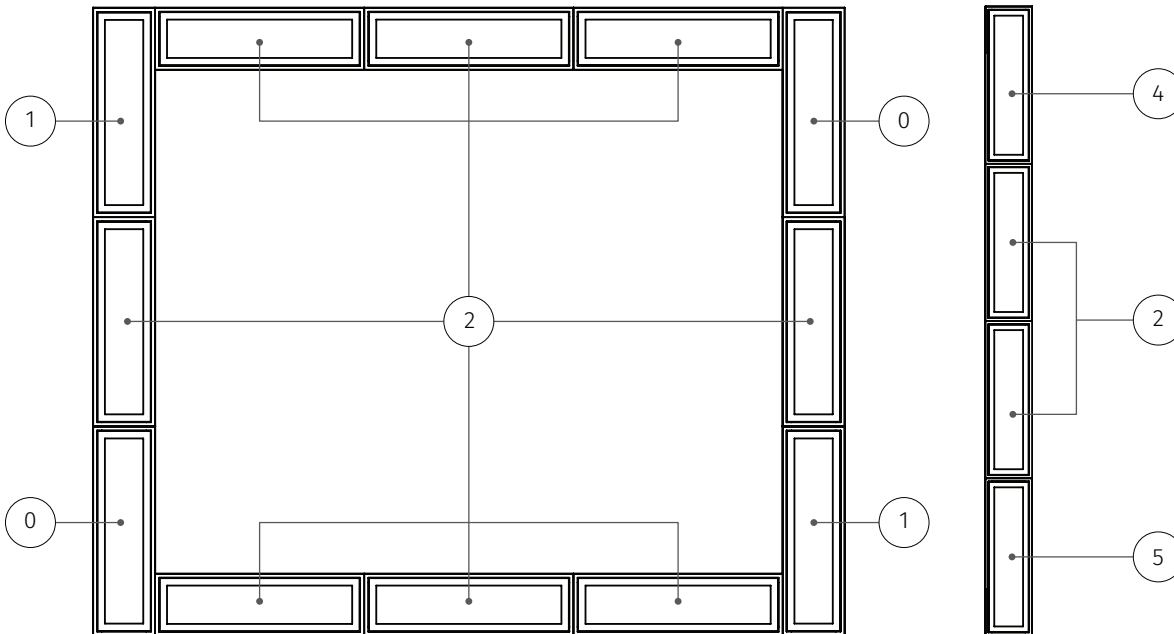
Standard	-000
DALI/STD terminal block	-200
Maintained Emergency	-800
DALI Emergency	-801

# Operating Theatre Light



## EXAMPLE LAYOUTS

The below example layouts demonstrate how the LED Operating Theatre Light system can be installed to create a fully sealed, contaminant-free environment.



### Example A.

demonstrates a full theatre installation, utilising Corner modules,

Item No.	Description	Qty
0	Corner A	2
1	Corner B	2
2	Intermediate	8

### Example B.

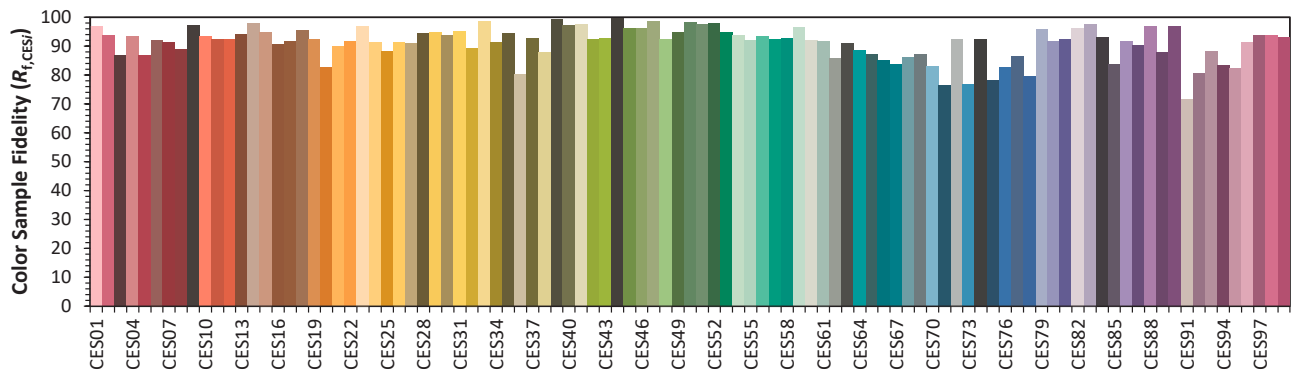
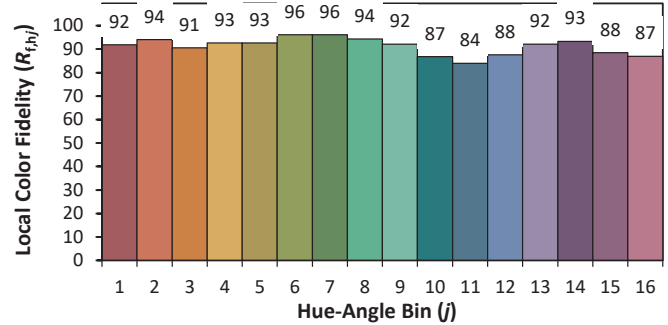
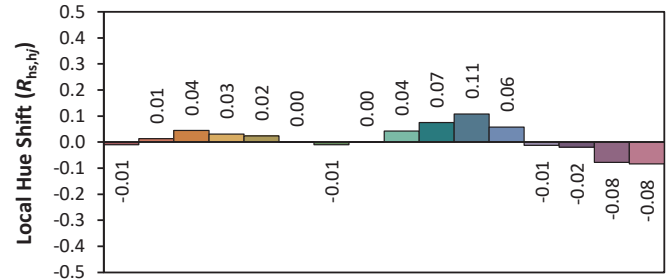
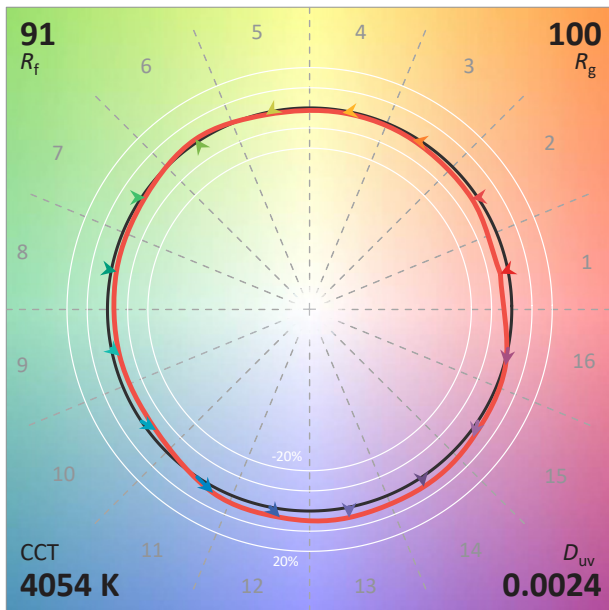
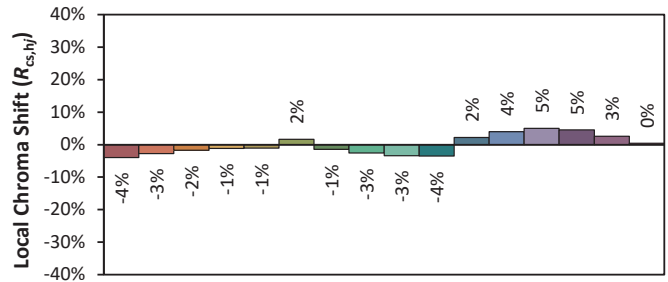
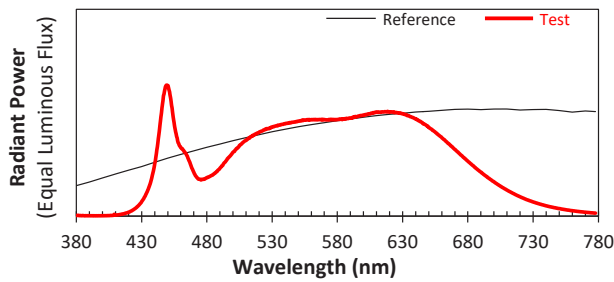
Shows a single run making use of Start and End modules.

Item No.	Description	Qty
2	Intermediate	2
4	Start	1
5	End	1

# Operating Theatre Light

## TM-30-18 Colour Rendition Report

EL-OPSL-1116 - 40W 6000LM 940 1254x381



**Notes:** This is a recommended method for displaying ANSI/IES TM-30-18 information.

$x$  0.3797  
 $y$  0.3815  
 $u'$  0.2227  
 $v'$  0.5036

CIE 13.3-1995 (CRI)	
$R_a$	92
$R_g$	69

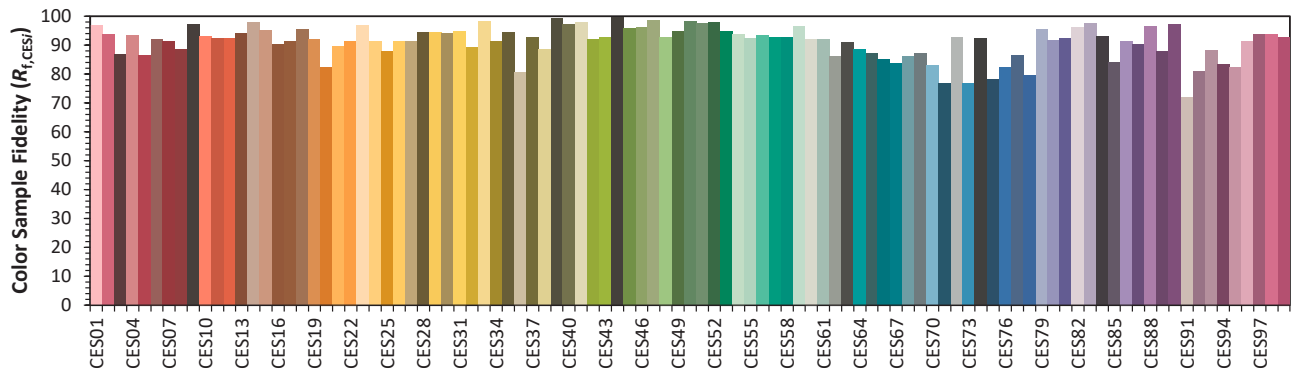
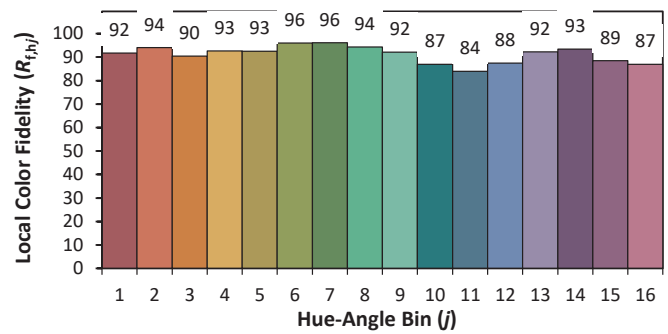
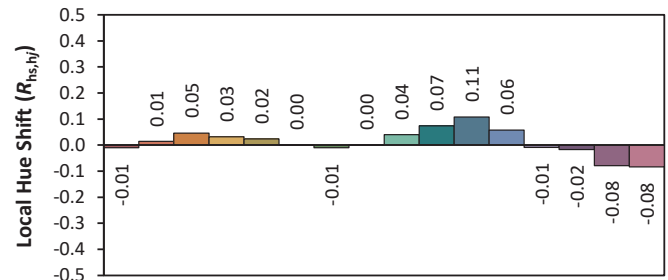
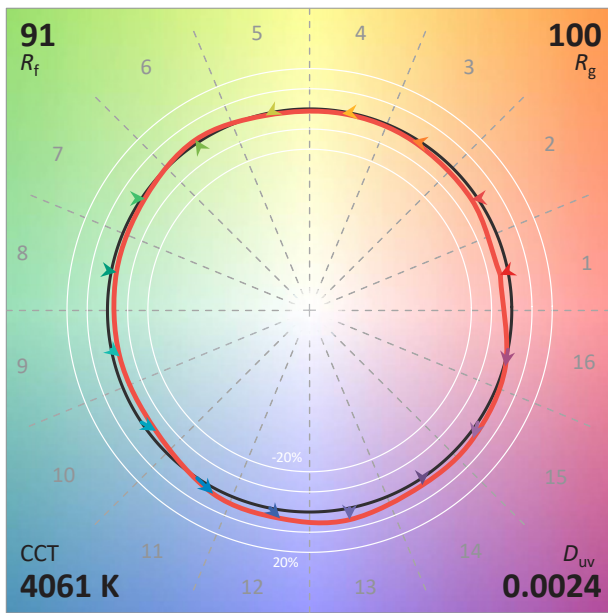
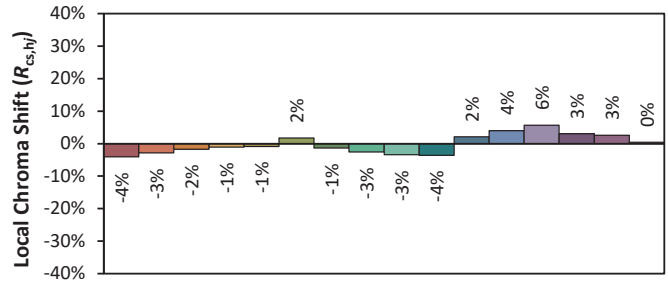
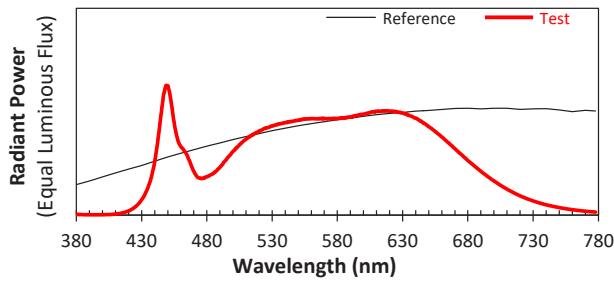
Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.

# Operating Theatre Light



## TM-30-18 Colour Rendition Report

EL-OPSL-1123 - 51W 7400LM 940 1254x381



**Notes:** This is a recommended method for displaying ANSI/IES TM-30-18 information.

$x$  0.3794  
 $y$  0.3812  
 $u'$  0.2226  
 $v'$  0.5034

CIE 13.3-1995 (CRI)	
$R_a$	92
$R_g$	68

Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.