

A range of circular Solid-State single-colour LED light sources, based on the latest high-power LED technology with integral heatsink enclosures and designed for use with low-voltage, constant-current power supplies.

Features / Benefits

- Distinctive Design** - Stylish circular modules in a black or silver finish with a range of sizes to choose from.
- IP67** - Estemo is sealed to IP67 for use in exterior applications.
- UV / IR Safe** - Estemo emits no UV or IR radiation, so is suitable to illuminate light-sensitive materials or products.
- Long Life** - Estemo offers up to 50,000 hrs. virtually maintenance-free operation.
- Light Choice** - Estemo systems are available in several deep saturated colours.
- Reliability** - Estemo is extremely robust, resistant to vibration and illuminates instantly, at temperatures as low as -20°C.
- Simple Connectivity** - Estemo units are supplied with an in-line IP connector on Estemo 36 and 3 metre x 2-core cables for the Estemo 1, 3, 6 and 9.



Typical Application

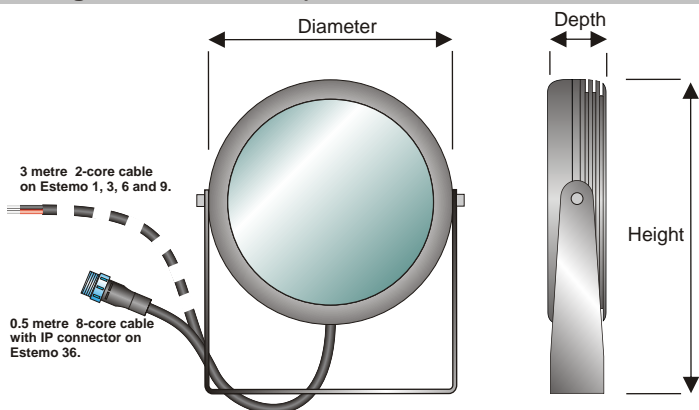


Applications

- Architectural Lighting.
- Spotlights.
- Floodlights.
- Accent Lighting.

Mechanical Specification

Estemo	1	3	6	9	36
Diameter	44	80	100	120	189
Depth	39	39	39	39	44
Height (mm) (Incl. Bracket)	115	115	160	168	230
Weight (Kg)	0.25	0.5	0.75	0.9	2.4
Finish	Anodised Aluminium				
Front Face	Glass				
Fixing Method	Adjustable bracket				



Electrical

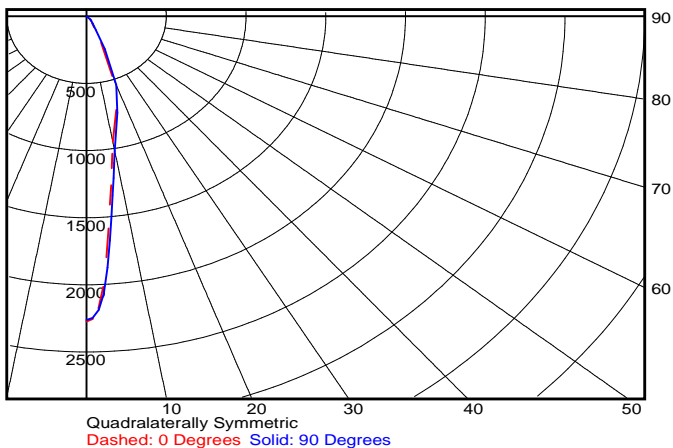
LED Colour	Maximum Output Power (W)					Max. Current (mA)
	Estemo 1	Estemo 3	Estemo 6	Estemo 9	Estemo 36	
Red	1W	3W	6W	9W	36W	350mA
Green	1.2W	3.6W	7.2W	10.8W	43.2W	350mA
Blue	1.2W	3.6W	7.2W	10.8W	43.2W	350mA
Amber	1W	3W	6W	9W	36W	350mA
White	1.2W	3.6W	7.2W	10.8W	43.2W	350mA
W-White	1.2W	3.6W	7.2W	10.8W	43.2W	350mA

Optical

LED Colour	Wavelength/CCT		Luminous Flux (Typ)				
	Min.	Max.	Estemo 1	Estemo 3	Estemo 6	Estemo 9	Estemo 36
Red	620nm	645nm	35 lm	105 lm	210 lm	315 lm	1260 lm
Green	520nm	550nm	42 lm	126 lm	252 lm	378 lm	1512 lm
Blue	440nm	460nm	176 mW	528 mW	1056 mW	1584 mW	6336 mW
Amber	585nm	597nm	33 lm	99 lm	198 lm	297 lm	1188 lm
White	4500K	10000K	36 lm	108 lm	216 lm	324 lm	1296 lm
W-White	2850K	3800K	16 lm	48 lm	96 lm	144 lm	576 lm

Photometrics

CANDELA PLOT



Data Based on Estemo 36

SUMMARY DATA

EFFICIENCY (Total):	61.1 %
EFFICIENCY (Downlight):	61.1 %
EFFICIENCY (Uplight):	0.0 %
CIE CLASSIFICATION:	DIRECT
SPACING CRITERION (0-Deg.):	0.27
SPACING CRITERION (90-Deg.):	0.30
LUMENS/LAMP: 955.9	
NO. OF LAMPS:	1
LUMINOUS OPENING:	CIRCULAR
Diameter:	122mm
INPUT WATTS:	40
RP-1-93 VDT CONFORMANCE:	YES-INTENSIVE USE

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Luminaire
0- 30	457.1	47.8	78.2
0- 40	500.0	52.3	85.6
0- 60	559.2	58.5	95.7
60 - 90	25.2	2.6	4.3
0- 90	584.5	61.1	100.0
90 - 180	0.0	0.0	0.0
0- 180	584.5	61.1	100.0

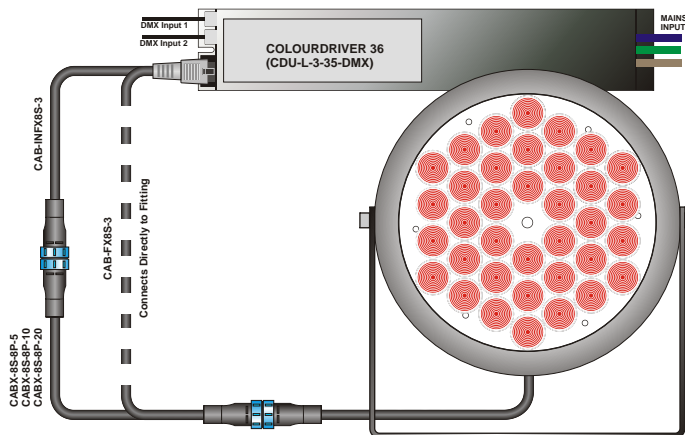
AVERAGE LUMINANCE

Angle	0	90
	194714	193798
45	4094	4203

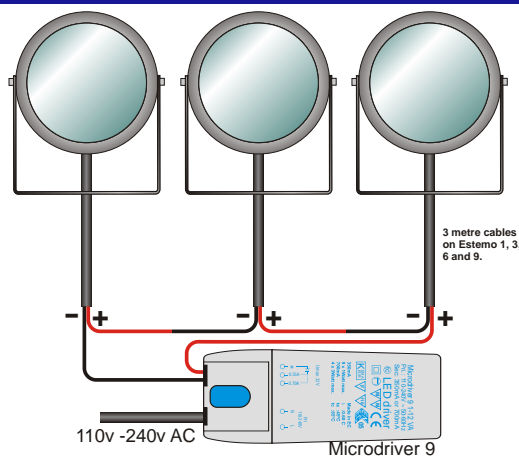
Compatible Drivers

Estemo	Drivers	No of Estemos
1	MDU4-SC-35	4
	MDU9-SC-35	9
	MDE16-C-VRL	16
3	MDU4-SC-35	1
	MDU9-SC-35	3
	MDE16-C-VRL	4
6	MDU9-SC-35	1
	MDE16-C-VRL	2
9	MDU9-SC-35	1
36	CDU-L-3-35-DMX	1

Typical Connection / Dimensions



Estemo 36 Connected to Colourdriver 36



3 X Estemo-3 Units Connected to Microdriver 9

Environmental

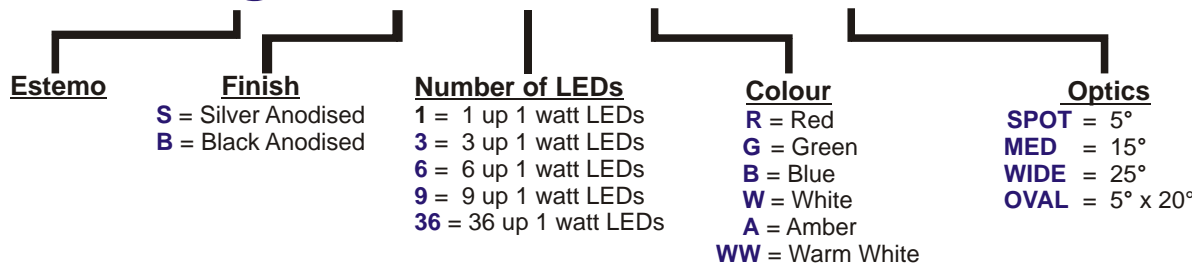
Maximum Ambient Temp	+40°C
LED Life @ 55°C PCB Temperature	50,000 Hrs
Maximum IP Rating	IP67

Accessories

Order Code	Description
CAB-FX8S-E-5	Wire End to Estemo Cable-5m
CAB-FX8S-E-10	Wire End to Estemo Cable-10m
CAB-FX8S-E-20	Wire End to Estemo Cable-20m
CAB-INF8S-3	CDU-L-3-35-DMX to CABX Cable-3m
CAB-FX8S-3	CDU-L-3-35-DMX to Estemo Cable-3m
CABX-8S-8P-5	Extension Cable - 5m
CABX-8S-8P-10	Extension Cable - 10m
CABX-8S-8P-20	Extension Cable - 20m

Product Identification

EST - X - XX - XX - XXXX



The output of high-power LEDs is constantly improving and so the type of LED in this product may change slightly to reflect the best total performance offered in the LED market.