Serious Lights Industrial Range – Glossary

The Meaning of Symbols and Expressions

Symbol/Expression	Meaning
Light Source Cap-Type	Light Source Holder
CTLS	Colour Tuneable Light Source
MLS	Mains Operated Light Source
DLS	Directional Light Source
CLS	Connected Light Source
Useful Luminous Flux	The Total Perceived Light Emitted In All Directions By The Light Source
On-Mode Power (Pon)	Power Consumption When Light Is On
Standby Power (Psb)	Power Consumption When Light Is On Standby
Output Power (Pcg)	Power Output From Driver When Light Is On
No-Load Power (Pno)	Power Output From Driver When Light Is Off
Correlated Colour Temperature	How Yellow Or Blue Is The Colour Of The Emitted Light
Colour Rendering Index (CRI)	How Faithful Is The Emitted Light To Daylight (In Term Of Colour Perception)
R9 Colour Rendering Index Value	How Vibrant Are The Reds In The Spectrum
Rf	The Accuracy Of Colour Rendition Compared To Daylight
Rg	The Average Level Of Light Saturation Compared To Daylight
Colour Consistency	How Close/Similar Are The Spectrum Colours In Random Samples Of The Same Model Of Light
Peak Luminous Intensity	How Bright Is The Light In Lux (For The Specified Beam Angle)
Survival Factor	Percentage Of Lights Which Do Not Fail (Out Of Total Number Of Tested Lights); Measured Against The Stated Life Expectancy Of The Light Source.
The Lumen Maintenance Factor	A Measure Of The Light Fading As The Light Source Ages
Flicker Metric	Rate Of Flicker In Hz
Stroboscopic Effect Metric	How The Rate Of Flicker Effects (The Perception Of The Rotation For A) Rotating Or Oscillating Parts.
Displacement Factor	The Percentage Of The Supplied Power That Is Lost Inside The Lightsource When Operating
IP Rating	How Impervious The Luminaire Is To The Ingress Of Dust And Water
	The Driver Can Be replaced By End User
	The Lightsource Cannot Be Replaced By End User
	Energy Classification (A-G)

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CL-Series Light Source Specifications

This light series contains; non-mains operating light source (NMLS), Directional Lightsource (DLS) and does not include a Colour Tuneable (CTLS) Lightsource.

Parameter	Value
Lighting Technology	LED
Light Source Cap-Type	Integrated Light Source
Dimming Functionality	Dimmable
Wattage	11 W
Energy Efficiency Class	G
Useful Luminous Flux	360 lm
On-Mode Power (P_{on})	11 W
Standby Power (P_{sb})	0 W
Correlated Colour Temperature	4000 K
Colour Rendering Index (CRI)	98
R9 Colour Rendering Index Value	96
R_f	97
R_g	101
Peak Luminous Intensity At 500mm	3600 lx
Beam Angle	80°
Anti-glare shield	Frosted Glass
Survival Factor	1
Lumen Maintenance Factor	0.96
Displacement Factor (cos φ1)	N/A
Colour Consistency	2.7 McAdam Ellipses
Flicker	N/A
Stroboscopic Effect	N/A
IP Rating	IP20
Light Source Lifetime	30000 hours (Approx)





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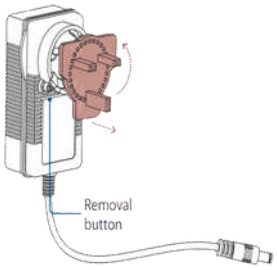
-Series Driver Specifications

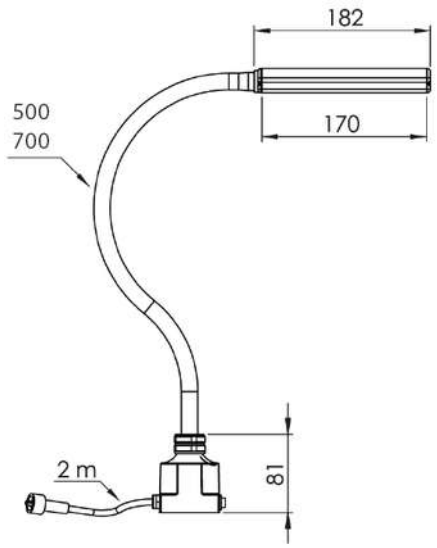
Parameter		Value	
Item No.			21146
Type of Object			Plug in
Control Gear Intended Use			LED or OLED Light Sources
Output Power (Pcg)			14.4W
Efficiency On Full load			83%
No-Load Power (Pno)			0.1W
Standby Power (Psb)			0.14W
Plug in Dimensions	Length: 92 mm	Width: 45 mm	Height 43mm
Input/Output Voltage			100-240 V/12-24 V AC/DC

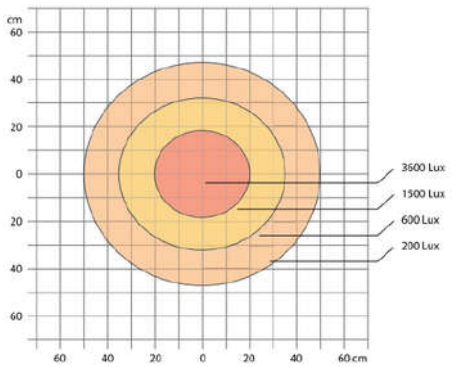


Plug in Driver

The plug-in driver is detachable from the luminaire. The plug-type is interchangeable to enable use in international sockets. To change the plug type; press the removal button and twist the fitting, then, click anti-clockwise the alternative into place.

Examples Of CL-Series Dimensions (mm)





	Dimensions				Materials	Finishes
Base	*Length: 63 mm*		Width: 63 mm	Height: 82	ABS + 1% GF	Black
Flexible Arm	*Length*	*500 mm*	Diameter	13 mm	Flexible Plastic Metal	Black
Head	*Length*	*83mm*	Diameter	60 mm	ABS + 1% GF	Black

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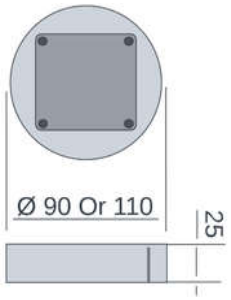
CL-Series

Product	Swivel	Arm Length		Base Dimension		Driver	Input Voltage
50CLRS	No Swivel	500 mm	Width:63 mm	Length:63 mm	Height:82 mm	Plug in	100-240 V
70CLRS	No Swivel	700 mm	Width:63 mm	Length:63 mm	Height:82 mm	Plug in	100-240 V

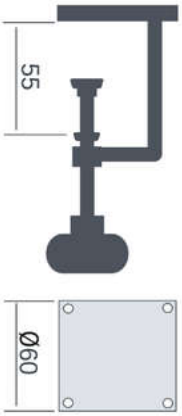
-Series Mounting Accessories Dimensions (mm):

Magnetic Base



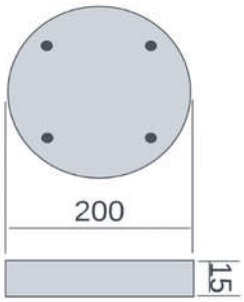
Part No. 12010 or 14000

C-Clamp



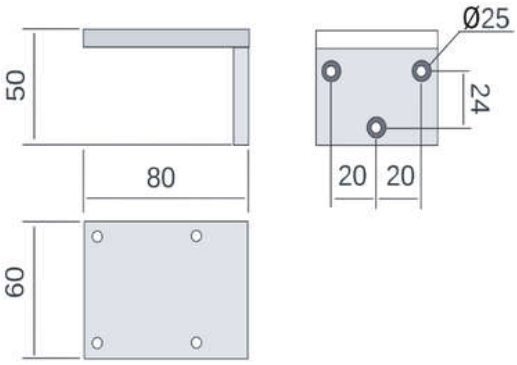
Part No. 14020

Table Base



Part No. 14035

Wall Mount



Part No. 14030

Notes:

- The Lightsource is integrated in the luminaire
- All lights are equipped with Push Button on/off switch.
- To dim the light press and hold the push button (switch) until you reach the desired brightness.
- For lights with integrated drivers, the driver is integrated inside the luminaire and cannot be replaced by end user.
- Lights with no drivers 12-24 V driver should be connected to a Serious driver and never connect them to the main voltage.

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