



High Intensity Spotlights HSL Series

Long working distance, wash down high-intensity focused spotlight
Condensed illumination is produced even at 2 m using unique illumination structure.



A spot light solution for your long working distance, focused, and washdown requirements

Conventional spot light sources

- Have short lifetimes resulting in a higher cost of goods to replace bulbs and significant cost due to downtime and maintenance over the long run duration.
- Have high power consumption increasing long term energy costs and environmental impact.
- High surface temperatures that can burn a bare hand.
- Non-uniform intensity over the illuminated area.
- Require filters to achieve desired color content which must be replaced frequently and block a significant fraction of the light power.

LED light sources

- Have the longest lifetime minimizing downtime and operating costs.
- Do not fail immediately but rather decrease in maximum reachable brightness over long period of time.
- Consume very little power thus minimizing electricity costs and environmental impact.
- Generate relatively little heat and can be safely handled even at full intensity.
- Provides illumination with a high intensity uniformity and minimal variation with time.
- Color comes from the LED itself and is available in red, white, green, and blue.
- Washdown (IP67 compliant)* Construction enables use the most demanding environments with water, dust, or other contaminants.

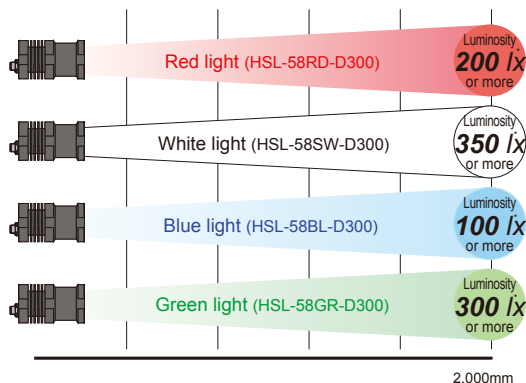
* IP67 specifies proper function with immersion in 1-m of water for a period of 30 minutes.

High-intensity, uniform, condensed illumination in only the areas required

Minimal light loss ensures efficient light use.

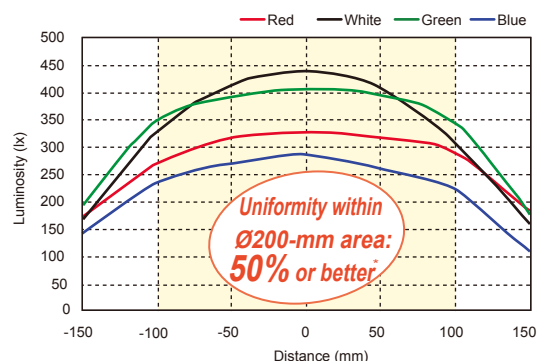
The HSL Series High-intensity LED Spotlights achieve high-intensity condensed illumination in areas requiring illumination up to 2 m away. Furthermore, the HSL Series spotlights have a high degree of uniformity in illumination area to enable performing both camera photography and visual inspections.

[HSL Series -
Luminosity of red, white, green, and blue light]



* Maximum light intensity within the Ø300-mm diameter spot when it is illuminated with a 2,000 mm working distance from the front of the light. (The light intensity may vary with ambient temperatures.)

[HSL Series -
Uniformity of red, white, green, and blue light]



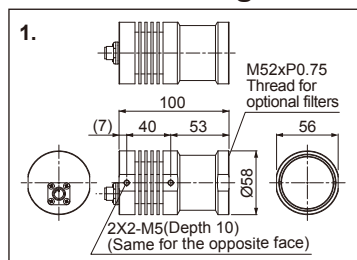
* Light intensity value across the Ø300-mm spot diameter when it is illuminated with a 2,000 mm working distance from the front of the light.

Product Lineup Table

Direct Number : You can easily access the web page providing information on any desired product by simply entering the 7-digit direct number in the space provided. (Refer to the back cover of this brochure.)

Series	Direct Number	Model Name	Color	Power Consumption	Option	Dimension
HSL	1000290	HSL-58RD-D300	●	4.6W	—	1
	1000291	HSL-58SW-D300	○			
	1000288	HSL-58BL-D300	●			
	1000289	HSL-58GR-D300	●			

Dimension Diagrams (Unit: mm)

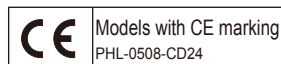


PHL-0508-CD24 control unit for best performance from the HSL Series spotlights

HSL Series control unit, PHL-0508-CD24

- Lightweight, compact design
- DIN rail mountable standard
- 24-VDC input
- Screw adjustable intensity control, prevents accidental tampering

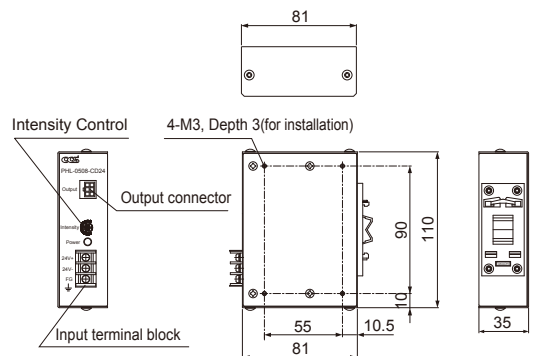
PHL-0508-CD24



Specifications for PHL-0508-CD24

Model	PHL-0508-CD24
Direct Number	2000130
Input voltage	24VDC (±10%)
Power consumption	8W max
Inrush current	1.8A typ.
Maximum output voltage	7V
Output current fluctuation range	76 to 950mA typ.
Input protection	Over-voltage protection with built-in fuse activated at approx. 140% of rated voltage. Reverse polarity protection with built-in fuse
Intensity control	Current control system
ON/OFF time	0.2 seconds or less
Operating environment	Temp.: 0 to 40°C, Humidity: 20 to 85%RH (With no condensation)
Storage environment	Temp.: -20 to 60°C, Humidity: 20 to 85%RH (With no condensation)
Weight	350g or less

Dimension Diagrams of PHL-0508-CD24 (Unit: mm)



HSL cable

Use the cable to connect between a spotlight and a control unit.

- FCB-2-IP67-PHL 2m
- FCB-5-IP67-PHL 5m
- FCB-10-IP67-PHL 10m

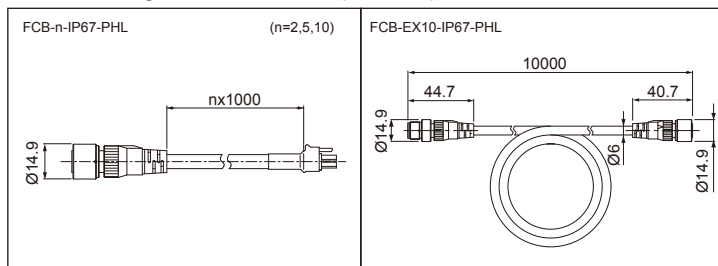
HSL extension cable

Use this cable to extend the distance between a spot light and a control unit in addition to a cable above for a maximum of 30-m length.

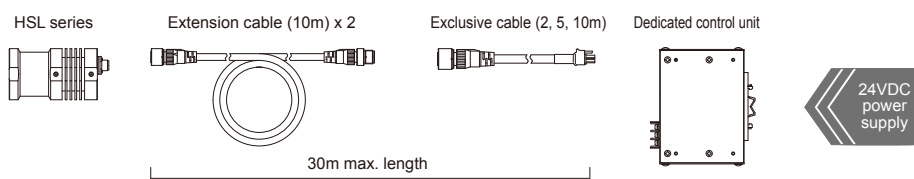
- FCB-EX10-IP67-PHL 10m

* Use a cable between a spotlight and a control unit at a maximum distance of 30 m.

Dimension Diagrams of HSL cable (Unit: mm)



Connection Example



*When using an extension cable, connect the exclusive cable to the illumination device, then connect the exclusive cable to the output connector of the control unit. The total length of the cable(s) connecting the illumination device and the control unit must be no more than 30 m.