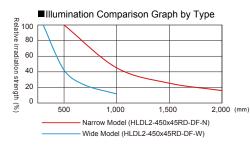


High-output LED Flood Lights Perfect for Large-scale Workpieces

Can illuminate objects up to 2,000 mm away. Many sizes available to handle a wide range of applications.

Illuminate Objects Up to 2,000 mm Away

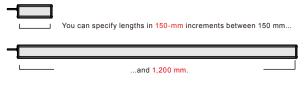
The high output of these Flood Lights makes long-distance illumination possible. The models with narrow directional characteristics can illuminate objects 2,000 mm away.

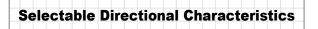


*The graphs provided here are for reference only. Results for individual Lights may vary

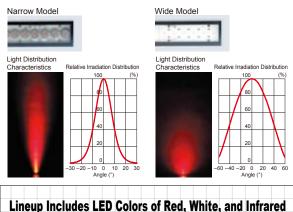
Available in Lengths from 150 mm to 1,200 mm

The design uses multiple LED boards connected together. Lengths can be specified in increments of 150 mm. With sizes ranging from 150 mm to a maximum of 1,200 mm, these Flood Lights are suitable for a wide range of applications.





Two models are available with different directional characteristics: a Narrow Model, which enables long-distance illumination, and a Wide Model, which provides diffuse illumination over a wide area.

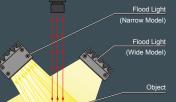


A wide range of colors, from visible light to infrared, is available. (The peak emitted light wavelength of the Infrared Flood Lights is 860 nm.)



Illumination structure of HLDL2 series

Many sizes are available to handle a wide range of applications. The high output will illuminate objects up to 2,000 mm away Camera



Examples of Flood Light Images

Ideal for Large-scale Applications



eal solution to replace fluorescent

Character Recognition on Cardboard

ABCD12

Characters can be read without interference from printed patterns Inspection of Door Assembly Gaps



The gaps can be checked

Direct Number : A direct number is a 7-digit number assigned to a CCS product. You can easily access the web page providing information on any desired product by simply entering the direct number in the space provided on the CCS website pages for machine vision. (Refer to the back cover of this brochure.)

Illumination type	Narrow Wide									
Model name	HLDL2-	HLDL2-AAx45SW-DF-N	HLDL2-	HLDL2-	HLDL2-AAAx45SW-DF-W	HLDL2-				
Direct number	1510									
		" $\triangle \triangle \triangle$ " is the light-en	nitting surface length betw	een 150 and 1,200 mm i	n 150-mm increments.					
LED color	Red	White	Infrared	Red	White	Infrared				
Input voltage	24 VDC									
Peak emitted light wavelength (typ.)	640 nm	—	860 nm	640 nm	—	860 nm				
Correlated color temperature (typ.)	—	5,600 K	—	—	5,600 K	—				
Connector	Light-emitting surface length of 150 to 450 mm: SM Connector (SMR-03V-B), Light-emitting surface length of 600 to 1,200 mm: EL Connector (ELP-02V)									
Polarity and signals	SM Connector (1: Anode (+), 2: NC, 3: Cathode (-)), EL Connector (1: Anode (+), 2: Cathode (-))									
Cooling method	Natural air cooling									
Operating temperature and humidity	Temperature: 0 to 40°C, Humidity: 20% to 85% RH (with no condensation)									
Storage temperature and humidity	Temperature: −20 to 60°C, Humidity: 20% to 85% RH (with no condensation)									
Case material	Aluminum base with black alumite surface									

*These Flood Lights cannot be used with Strobe Light Control Units (PTU2-3024, BB-V24S30-M, and BB-V24S30-S).

PD3-series Control Units can be used for Strobe Mode and ON/OFF Mode, and Constant Lighting Control Units (PD2 Series, BB Series, etc.) can be used for ON/OFF light control.

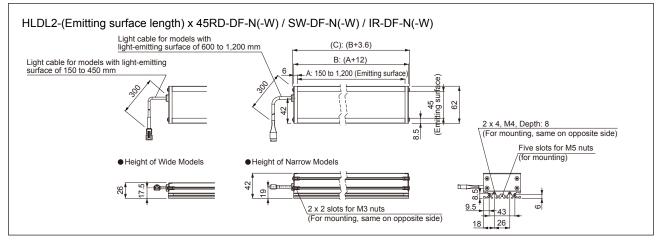
*The peak emitted light wavelength of the Red Flood Lights is 640 nm. For a Sharp-cut Filter, use the optional R60 Sharp-cut Filter.

*Refer to page 99 for information on options.

Model-specific Specifications

	Model name	Power consumption (max.)	Weight		Model name	Power consumption (max.)	Weight		Model name	Power consumption (max.)	Weight
	HLDL2-150x45RD-DF-N	14 W	390 g		HLDL2-150x45SW-DF-N	16 W	390 g		HLDL2-150x45IR-DF-N	12 W	390 g
<u>0</u>	HLDL2-300x45RD-DF-N	28 W	770 g	dels	HLDL2-300x45SW-DF-N	31 W	770 g	Models	HLDL2-300x45IR-DF-N	24 W	770 g
Models	HLDL2-450x45RD-DF-N	42 W	1,160 g	Moc	HLDL2-450x45SW-DF-N	46 W	1,160 g	₽	HLDL2-450x45IR-DF-N	36 W	1,160 g
No No	HLDL2-600x45RD-DF-N	56 W	1,540 g	Ň	HLDL2-600x45SW-DF-N	61 W	1,540 g	Narrow	HLDL2-600x45IR-DF-N	48 W	1,540 g
au	HLDL2-750x45RD-DF-N	70 W	1,930 g	Narro	HLDL2-750x45SW-DF-N	76 W	1,930 g	Nar	HLDL2-750x45IR-DF-N	60 W	1,930 g
Z p	HLDL2-900x45RD-DF-N	84 W	2,310 g	te	HLDL2-900x45SW-DF-N	91 W	2,310 g	Ped	HLDL2-900x45IR-DF-N	72 W	2,310 g
Re	HLDL2-1050x45RD-DF-N	98 W	2,700 g	White	HLDL2-1050x45SW-DF-N	106 W	2,700 g	nfrared	HLDL2-1050x45IR-DF-N	84 W	2,700 g
	HLDL2-1200x45RD-DF-N	111 W	3,080 g		HLDL2-1200x45SW-DF-N	121 W	3,080 g	-	HLDL2-1200x45IR-DF-N	96 W	3,080 g
	HLDL2-150x45RD-DF-W	14 W	300 g		HLDL2-150x45SW-DF-W	16 W	300 g		HLDL2-150x45IR-DF-W	12 W	300 g
s	HLDL2-300x45RD-DF-W	28 W	590 g	5	HLDL2-300x45SW-DF-W	31 W	590 g	Models	HLDL2-300x45IR-DF-W	24 W	590 g
odels	HLDL2-450x45RD-DF-W	42 W	880 g	Models	HLDL2-450x45SW-DF-W	46 W	880 g	Moc	HLDL2-450x45IR-DF-W	36 W	880 g
Σ	HLDL2-600x45RD-DF-W	56 W	1,170 g	≥	HLDL2-600x45SW-DF-W	61 W	1,170 g	Wide	HLDL2-600x45IR-DF-W	48 W	1,170 g
Wide	HLDL2-750x45RD-DF-W	70 W	1,460 g	Wide	HLDL2-750x45SW-DF-W	76 W	1,460 g	Ň	HLDL2-750x45IR-DF-W	60 W	1,460 g
Red \	HLDL2-900x45RD-DF-W	84 W	1,750 g	White	HLDL2-900x45SW-DF-W	91 W	1,750 g	Infrared	HLDL2-900x45IR-DF-W	72 W	1,750 g
₩	HLDL2-1050x45RD-DF-W	98 W	2,040 g		HLDL2-1050x45SW-DF-W	106 W	2,040 g		HLDL2-1050x45IR-DF-W	84 W	2,040 g
	HLDL2-1200x45RD-DF-W	111 W	2,330 g		HLDL2-1200x45SW-DF-W	121 W	2,330 g		HLDL2-1200x45IR-DF-W	96 W	2,330 g

Dimension Diagrams (Unit: mm)



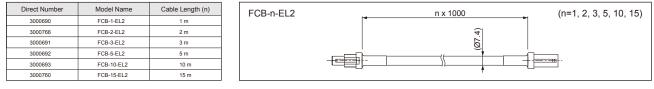
Model-specific Dimensions

Model Name for Narrow Model	ow Model Dimension A (Emitting Surface) Dimension B Dimension C Model Name for Narrow Model		Model Name for Narrow Model	Dimension A (Emitting Surface)	Dimension B	Dimension C	
HLDL2-150x45RD-DF-N / SW-DF-N / IR-DF-N	150 mm	162 mm	165.6 mm	HLDL2-150x45RD-DF-W / SW-DF-W / IR-DF-W	150 mm	162 mm	165.6 mm
HLDL2-300x45RD-DF-N / SW-DF-N / IR-DF-N	300 mm	312 mm	315.6 mm	HLDL2-300x45RD-DF-W / SW-DF-W / IR-DF-W	300 mm	312 mm	315.6 mm
HLDL2-450x45RD-DF-N / SW-DF-N / IR-DF-N	450 mm	462 mm	465.6 mm	HLDL2-450x45RD-DF-W / SW-DF-W / IR-DF-W	450 mm	462 mm	465.6 mm
HLDL2-600x45RD-DF-N / SW-DF-N / IR-DF-N	600 mm	612 mm	615.6 mm	HLDL2-600x45RD-DF-W / SW-DF-W / IR-DF-W	600 mm	612 mm	615.6 mm
HLDL2-750x45RD-DF-N / SW-DF-N / IR-DF-N	750 mm	762 mm	765.6 mm	HLDL2-750x45RD-DF-W / SW-DF-W / IR-DF-W	750 mm	762 mm	765.6 mm
HLDL2-900x45RD-DF-N / SW-DF-N / IR-DF-N	900 mm	912 mm	915.6 mm	HLDL2-900x45RD-DF-W / SW-DF-W / IR-DF-W	900 mm	912 mm	915.6 mm
HLDL2-1050x45RD-DF-N / SW-DF-N / IR-DF-N	1050 mm	1062 mm	1065.6 mm	HLDL2-1050x45RD-DF-W / SW-DF-W / IR-DF-W	1050 mm	1062 mm	1065.6 mm
HLDL2-1200x45RD-DF-N / SW-DF-N / IR-DF-N	1200 mm	1212 mm	1215.6 mm	HLDL2-1200x45RD-DF-W / SW-DF-W / IR-DF-W	1200 mm	1212 mm	1215.6 mm

Cable Lengths for EL Connectors on Models with Emitting Surface of 600 to 1,200 mm

Model-specific Dimensions

Dimension Diagram (Unit: mm)



Use the FCB-series or FRCB-series Extension Cables for models with light-emitting surfaces of 150 to 450 mm. Refer to page 102 for information on Extension Cables.

If you register as a CCS member, you can download all materials (such as PDF or DXF drawings and operation manuals) from our website. You can also request us to select the appropriate Light Unit, borrowing demonstration units and to quote the product's price. Please go ahead and register as a member today. (Refer to back cover of this brochure.)

