

LED Light Units for Line Scan Applications

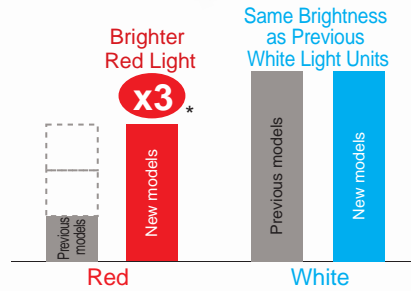
Patented Design Registered

HLND Series



Main Features Inherited from Previous Models

LED Color: White or Red	Compact: 35-mm Width
Saves Space	Max. Length: 2,700 mm



Housing Sizes, Mounting Holes, Power Consumption

No Changes

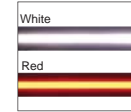
* According to CCS comparison with previous CCS models.

Changes to Model Names

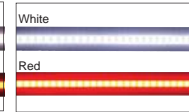
The model names have changed. Select models from the lists on the right.

	Previous models	New models
White	For transmitted illumination: HLND-□□□SW2-T	HLND-□□□SW2-TT
	For reflected illumination: HLND-□□□SW2-R	HLND-□□□SW2-RR
Red	For transmitted illumination: HLND-□□□RD-T	HLND-□□□RD-TT
	For reflected illumination: HLND-□□□RD-R	HLND-□□□RD-RR

Light Units for Transmitted Illumination (model name suffix: -TT)



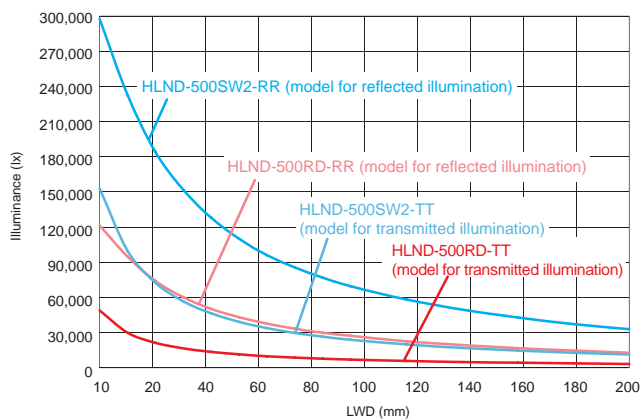
Light Units for Reflected Illumination (model name suffix: -RR)



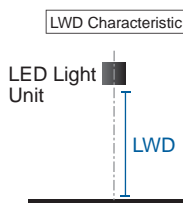
Technical Data Typical Examples

Illuminance –LWD Characteristic–

* LWD: Light Working Distance (the distance from the emitting surface of a Light Unit to the workpiece)

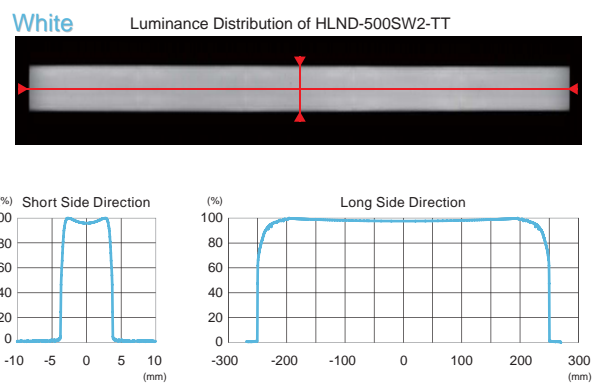


Measurement Setup

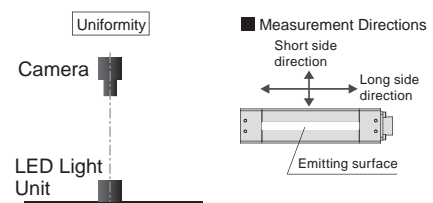


* The values given here are for reference only. Results for individual Units may vary.

Uniformity (Model for Transmitted Illumination)



Measurement Setup



* The values given here are for reference only. Results for individual Units may vary.

Specifications * The specifications are the same as those of the previous models.

Model	HLND-□□□SW2-TT	HLND-□□□SW2-RR	HLND-□□□RD-TT	HLND-□□□RD-RR
LED color	White (SW2)		Red (RD)	
Type	Transmitted illumination (TT)	Reflected illumination (RR)	Transmitted illumination (TT)	Reflected illumination (RR)
Correlated color temperature/ Peak wavelength	6,500 K (typ.)		624 nm (typ.)	
Case material	Aluminum alloy			
Connector	Metal Connector (SRCN2A16-7P)			
Polarity and signals	1, 2, and 3: +; 4, 5, and 6: -, 7: NC			
Operating environment	Temperature: 0 to 40°C, Humidity: 20% to 85% RH (with no condensation)			
Storage environment	Temperature: -20 to 60°C, Humidity: 20% to 85% RH (with no condensation)			
CE Marking	Conforms to safety standard EN 62471.			
Environmental regulations	RoHS compliant			
Cooling method	Natural air cooling			
Spectral distribution				
Applicable Control Unit	PSB3-30024			
Applicable Cable	FCB-n-1.25SQ-ME7 Series (n=2 m, 3 m, 5m, or 10 m), FCB-20-2.0SQ-ME7 Series (20 m)			

* The values given here are for reference only. Results for individual Units may vary.
 * For details on the applicable Control Units and applicable Cables, refer to the general catalog or the CCS website.

Model	Emitting surface length (□□□)	Power consumption (max.)		Weight (max.)
		White (SW2)	Red (RD)	
HLND-100	100 mm	10 W	4.8 W	520 g
HLND-300	300 mm	30 W	14 W	1,160 g
HLND-600	600 mm	60 W	29 W	2,120 g
HLND-900	900 mm	91 W	43 W	3,080 g
HLND-1200	1,200 mm	107 W	58 W	4,040 g
HLND-1500	1,500 mm	133 W	72 W	5,000 g
HLND-1800	1,800 mm	160 W	86 W	5,960 g
HLND-2100	2,100 mm	186 W	101 W	6,920 g
HLND-2400	2,400 mm	213 W	115 W	7,880 g
HLND-2700	2,700 mm	240 W	130 W	8,840 g

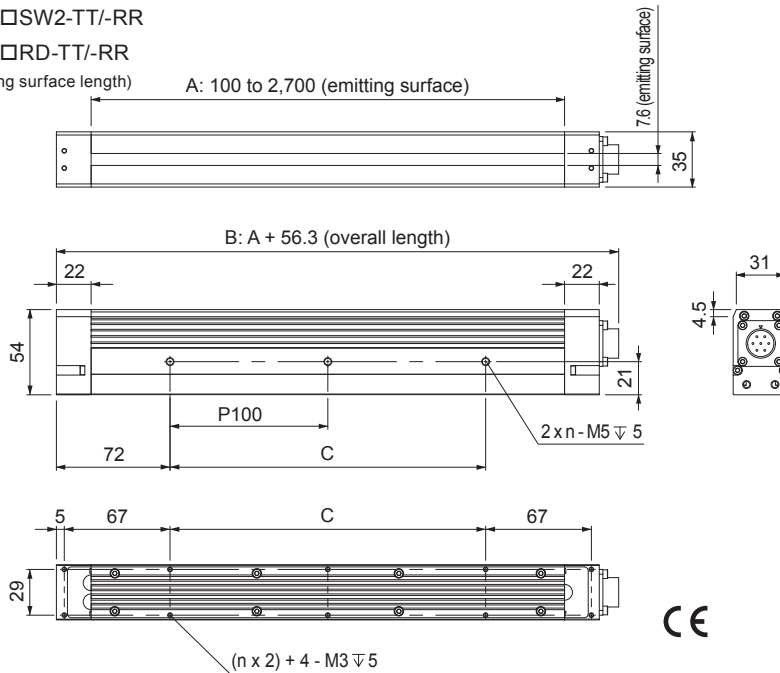
* Emitting surface lengths are available in increments of 100 mm. Refer to information available on the Web or contact CCS for sizes not described in this document.

Dimensions (mm) * The dimensions are the same as those of the previous models

HLND-□□□SW2-TT/-RR

HLND-□□□RD-TT/-RR

(□□□: Emitting surface length)



Model	A: Emitting surface	B: Overall length	C	n
HLND-100	100 mm	156.3 mm	-	1
HLND-300	300 mm	356.3 mm	200 mm	3
HLND-600	600 mm	656.3 mm	500 mm	6
HLND-900	900 mm	956.3 mm	800 mm	9
HLND-1200	1,200 mm	1,256.3 mm	1100 mm	12
HLND-1500	1,500 mm	1,556.3 mm	1400 mm	15
HLND-1800	1,800 mm	1,856.3 mm	1700 mm	18
HLND-2100	2,100 mm	2,156.3 mm	2000 mm	21
HLND-2400	2,400 mm	2,456.3 mm	2300 mm	24
HLND-2700	2,700 mm	2,756.3 mm	2600 mm	27

* Emitting surface lengths are available in increments of 100 mm. Refer to information available on the Web or contact CCS for sizes not described in this document.

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NOTICE

- Carefully read the product's *Instruction Guide* before use to ensure correct operation.
- For product improvement, specifications and designs are subject to change without notice.



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