

# Line Lights HLND series

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CCS HLND

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Use a search engine.

Provides diffused light from an emitting surface equipped with LEDs in a straight line

**LED color**  
Custom orders accepted

**Size**  
Custom orders accepted



**Applications** Mixed foreign materials inspection for rice, foreign material inspection for clear film, stain inspection for sheet steel, inspection for surface printing on paper, and dimension measuring for sheet steel, etc.

LDR2	Direct Lighting
LDR2-LA	Direct Lighting
LDR-LA1	Direct Lighting
SQR	Direct Lighting
SQR-TP	Direct Lighting
HLDR-IP	Convergent Lighting
HPR2	Diffused Lighting
HPR	Diffused Lighting
LFR	Diffused Lighting
LKR	Diffused Lighting
FPR	Diffused Lighting
FPQ2	Direct Lighting
LDL2	Direct Lighting
LDLB	Direct Lighting
HLDL2	Direct Lighting
TH	Diffused Lighting
LFL	Diffused Lighting
HPD2	Diffused Lighting
HPD	Diffused Lighting
LDM2	Diffused Lighting
LAV	Diffused Lighting
PDM	Diffused Lighting
LFX2	Diffused Lighting
LFV3	Diffused Lighting
LFV2	Diffused Lighting
MSU	Collimated Lighting
MFU	Collimated Lighting
UV2	Ultraviolet Lighting
UV	Ultraviolet Lighting
LNSP-UV-FN	Ultraviolet Lighting
IR2	Infrared Lighting
HLV2	Spot Lighting, Etc.
LV	Spot Lighting, Etc.
LSP	Spot Lighting, Etc.
HFS/HFR	Spot Lighting, Etc.
HLV2-NR	Spot Lighting, Etc.
HLV2-3M-RGB-3W	Spot Lighting, Etc.
PFB2	Convergent Lighting
PFB	Convergent Lighting
LNSP	Convergent Lighting
CU-LNSP	Convergent Lighting
LNSP-FN	Convergent Lighting
LN/LN-HK	Convergent Lighting
LNSD	Diffused Lighting
LND2	Diffused Lighting
HLND	Diffused Lighting
LT	Diffused Lighting
LNW/HLDN	Diffused Lighting
LNIS	Oblique Angled Lighting
LNIS-FN	Oblique Angled Lighting
Telecentric Lens	Lenses
Macro Lens	Lenses

Can create up to a maximum of 2,700 mm

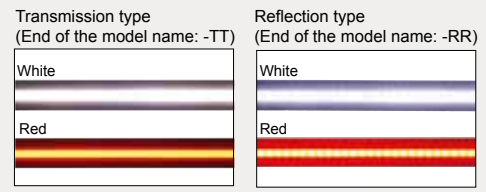
Provides a Light Unit with the optimal length to meet your needs.

**Emitting surface length**  
From 100 mm to 2,700 mm  Can be made in units of 100 mm

**LED color**  
For emitted LED color, we have a lineup consisting of:  
**Red** and **White**  
Select your Light Unit based on the details of your inspections.

**Two types, with different diffusion plate transmittance rate, are available**

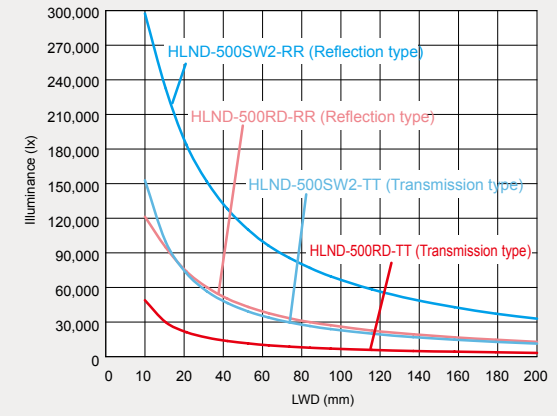
You can select from a uniform type perfect as transmission lighting, and a high output type perfect as reflection lighting.



Uses a unique illumination mechanism

We used surface-mounted LEDs and a unique illumination mechanism to achieve a high output Line Light. Two types of diffusion plates to be equipped are available. Select one to match your needs.

Illumination comparison for the HLND series



\* Actual measurement values at 100% intensity in each illuminating distance. (This does not guarantee product quality.)  
\* LWD is the distance from the Light Unit to the workpiece.  
\* The graph included is for reference only and does not guarantee the quality of this product.

Applications

**Foreign material inspection for clear film (Transmission type)**

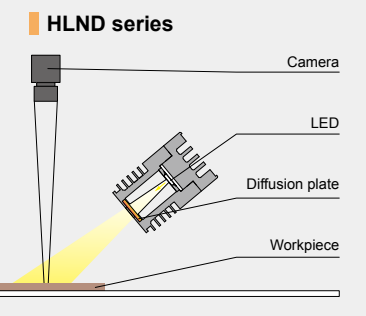


**Visual inspection for color sheet steel (Reflection type)**



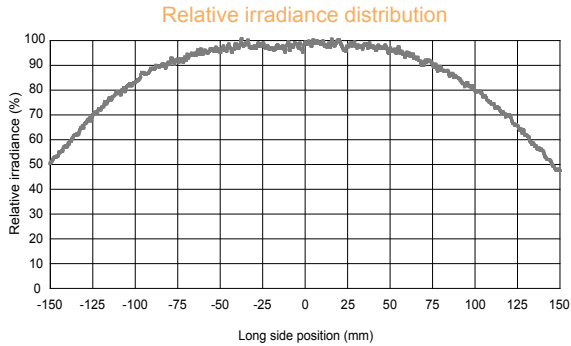
Example configuration

LEDs are mounted on a flat circuit board. The light is transmitted through the diffusion plate and diffused light is illuminated in a line shape. The emitting surface can be made up to 2,700 mm long.

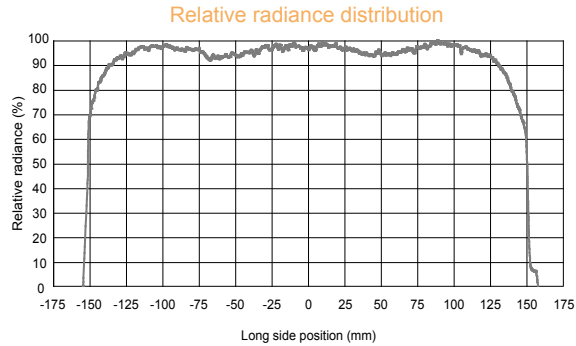


**Data** (Representative example) \*The graph included is for reference only and does not guarantee the quality of this product.

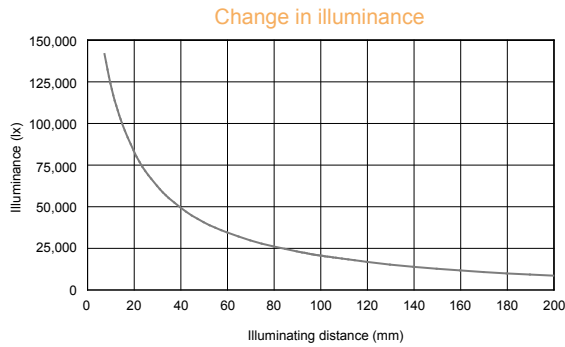
**HLND-300SW2-TT (Transmission type)**



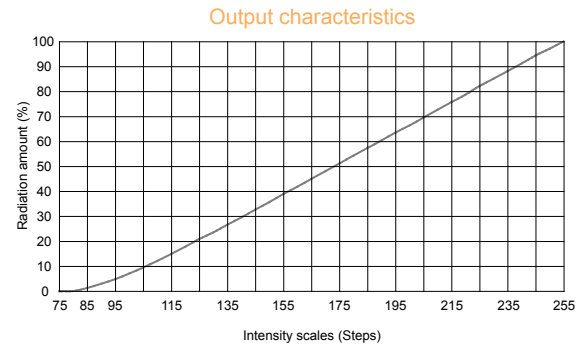
\* Actual measurement values at 100% intensity in 100 mm illuminating distance. (This does not guarantee product quality.)



\* The graph included is for reference only and does not guarantee the quality of this product.

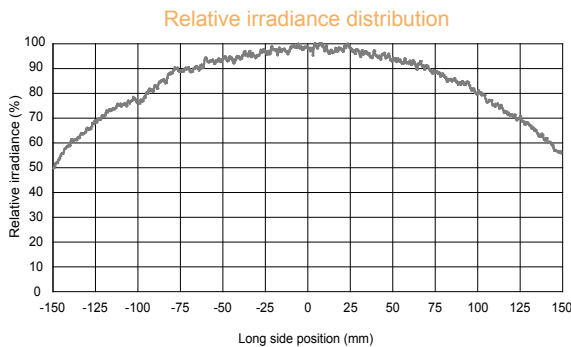


\* Actual measurement values at 100% intensity in each illuminating distance. (This does not guarantee product quality.)

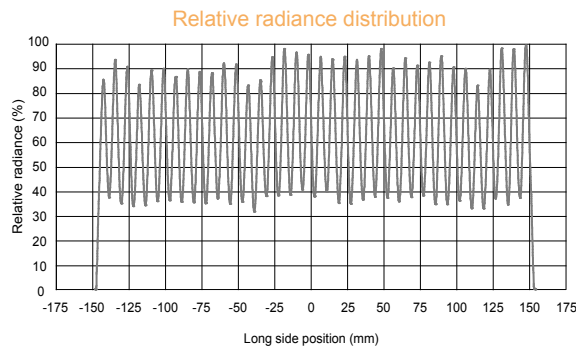


\* Actual measurement values using the Analog Control Unit PSB3-30024. (This does not guarantee product quality.)  
\* Data obtained when output voltage range is 12 to 24 V.

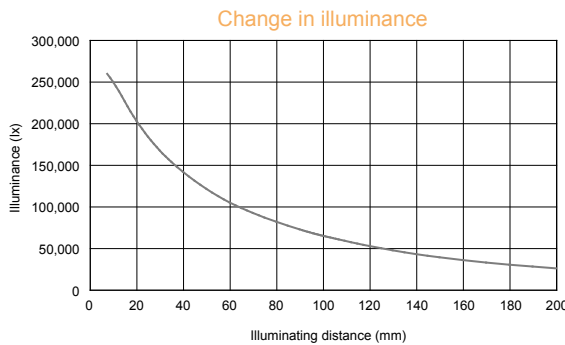
**HLND-300SW2-RR (Reflection type)**



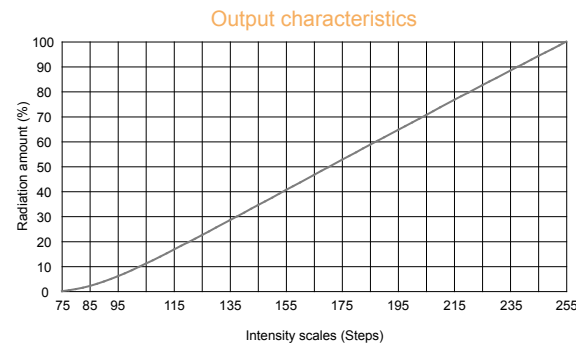
\* Actual measurement values at 100% intensity in 100 mm illuminating distance. (This does not guarantee product quality.)



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\* Actual measurement values at 100% intensity in each illuminating distance. (This does not guarantee product quality.)



\* Actual measurement values using the Analog Control Unit PSB3-30024. (This does not guarantee product quality.)  
\* Data obtained when output voltage range is 12 to 24 V.

Direct Lighting	LDR2 LDR2-LA LDR-LA1 SQR SQR-TP
Convergent Lighting	HLDL-IP
Diffused Lighting	HPR2 HPR LFR LKR FPR FPQ2
Direct Lighting	LDL2 LDLB HLDL2
Diffused Lighting	TH LFL HPD2 HPD LDM2 LAV PDM LFX2 LFX3 LFX2
Colimated Lighting	MSU MFU
Ultraviolet Lighting	UV2 UV LNSP-UV-FN
Infrared Lighting	IR2
Spot Lighting, Etc.	HLV2 LV LSP HFS/HFR HLV2-NR HLV2-3M-RGB-3W PFB2 PFBR
Convergent Lighting	LNSP CU-LNSP LNSP-FN LN/LN-HK
Diffused Lighting	LNSD LND2 <b>HLND</b> LT LNV/HLDN
Oblique Angled Lighting	LNIS LNIS-FN
Lenses	Telecentric Lens Macro Lens

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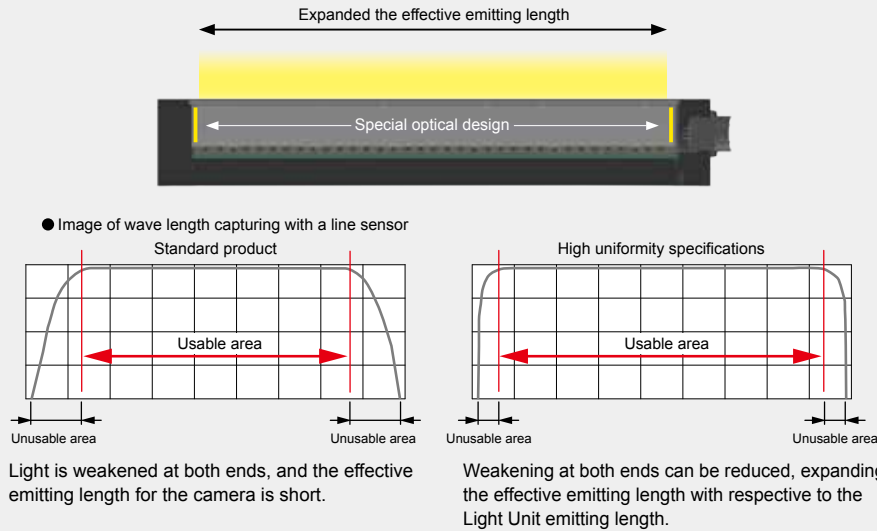
Use a search engine.

## Custom order

Please contact your CCS sales representative.

E.g.: Usable area expansion (Special optical design on both sides of the housing)

Result: Keeps weakening on both sides of the Light Unit housing to a minimum, expanding the effective emitting length.



## Lineup

Model name	LED color	Power consumption	Peak wavelength/ correlated color temperature	Extension cables	Recommended Control Unit	Weight
HLND-100SW2-TT	White	10 W	6,500 K	2 m (FCB-2-1.25SQ-ME7)	PSB3-30024	520 g
HLND-200SW2-TT		20 W				840 g
HLND-300SW2-TT		30 W				1,160 g
HLND-400SW2-TT		40 W				1,480 g
HLND-500SW2-TT		50 W				1,800 g
HLND-600SW2-TT		60 W				2,120 g
HLND-700SW2-TT		71 W				2,440 g
HLND-800SW2-TT		81 W				2,760 g
HLND-900SW2-TT		91 W				3,080 g
HLND-1000SW2-TT		89 W				3,400 g
HLND-1100SW2-TT		98 W				3,720 g
HLND-1200SW2-TT		107 W				4,040 g
HLND-1300SW2-TT		115 W				4,360 g
HLND-1400SW2-TT		124 W				4,680 g
HLND-1500SW2-TT		133 W				5,000 g
HLND-1600SW2-TT		142 W				5,320 g
HLND-1700SW2-TT		151 W				5,640 g
HLND-1800SW2-TT		160 W				5,960 g
HLND-1900SW2-TT		169 W				6,280 g
HLND-2000SW2-TT		178 W				6,600 g
HLND-2100SW2-TT		186 W				6,920 g
HLND-2200SW2-TT		195 W				7,240 g
HLND-2300SW2-TT		204 W				7,560 g
HLND-2400SW2-TT		213 W				7,880 g
HLND-2500SW2-TT		222 W				8,200 g
HLND-2600SW2-TT		231 W				8,520 g
HLND-2700SW2-TT		240 W				8,840 g

PSB3-30024 Product Page ▶ P.213

The emitting surface is available in sizes of 100 mm units. For details about other sizes, inquire with your CCS sales representative. In addition, we accept custom orders, such as changes to the LED color (blue/IR/UV, etc.) and size changes. Inquire at your CCS sales representative for details.

We have various materials.

- PDF Drawings
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- Instruction Guides
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LDR2-LA	
LDR-LA1	
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HLDR-IP	
HPR2	Diffused Lighting
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LDL2	Direct Lighting
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HLDL2	Diffused Lighting
TH	
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HPD2	
HPD	
LDM2	
LAV	
PDM	
LFX2	
LFX3	
LFV2	Collimated Lighting
MSU	
MFU	
UV2	Ultraviolet Lighting
UV	
LNSP-UV-FN	Infrared Lighting
IR2	
HLV2	Spot Lighting, Etc.
LV	
LSP	
HFS/HFR	
HLV2-NR	
HLV2-3M-RGB-3W	
PFB2	
PFBR	
LNSP	
CU-LNSP	
LNSP-FN	Convergent Lighting
LN/LN-HK	
LNSD	
LND2	Diffused Lighting
HLND	
LT	Coblique Angled Lighting
LNV/HLDN	
LNIS	
LNIS-FN	Lenses
Telecentric Lens	
Macro Lens	

## Lineup

	Model name	LED color	Power consumption	Peak wavelength/ correlated color temperature	Extension cables	Recommended Control Unit	Weight
Transmission types	HLND-100RD-TT	Red	4.8 W	624 nm	2 m (FCB-2-1.25SQ-ME7)	PSB3-30024	520 g
	HLND-200RD-TT		9.6 W				840 g
	HLND-300RD-TT		14 W				1,160 g
	HLND-400RD-TT		19 W				1,480 g
	HLND-500RD-TT		24 W				1,800 g
	HLND-600RD-TT		29 W				2,120 g
	HLND-700RD-TT		34 W				2,440 g
	HLND-800RD-TT		38 W				2,760 g
	HLND-900RD-TT		43 W				3,080 g
	HLND-1000RD-TT		48 W				3,400 g
	HLND-1100RD-TT		53 W				3,720 g
	HLND-1200RD-TT		58 W				4,040 g
	HLND-1300RD-TT		62 W				4,360 g
	HLND-1400RD-TT		67 W				4,680 g
	HLND-1500RD-TT		72 W				5,000 g
	HLND-1600RD-TT		77 W				5,320 g
	HLND-1700RD-TT		82 W				5,640 g
	HLND-1800RD-TT		86 W				5,960 g
	HLND-1900RD-TT		91 W				6,280 g
	HLND-2000RD-TT		96 W				6,600 g
	HLND-2100RD-TT		101 W				6,920 g
	HLND-2200RD-TT		106 W				7,240 g
	HLND-2300RD-TT		110 W				7,560 g
	HLND-2400RD-TT		115 W				7,880 g
	HLND-2500RD-TT		120 W				8,200 g
	HLND-2600RD-TT		125 W				8,520 g
	HLND-2700RD-TT		130 W				8,840 g
Reflection types	HLND-100SW2-RR	White	10 W	6,500 K	2 m (FCB-2-1.25SQ-ME7)	PSB3-30024	520 g
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	LDR2-LA
	LDR-LA1
	SQR
Convergent Lighting	SQR-TP
	HLDR-IP
Diffused Lighting	HPR2
	HPR
	LFR
	LKR
	FPR
Direct Lighting	FPQ2
	LDL2
	LDLB
Direct Lighting	HLDL2
	TH
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	HPD2
Convergent Lighting	HPD
	LDM2
	LAV
	PDM
	LFX2
	LFV3
	LFV2
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	MFU
Ultraviolet Lighting	UV2
	UV
	LNSP-UV-FN
Infrared Lighting	IR2
	HLV2
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	LSP
	HFS/HFR
	HLV2-NR
	HLV2-3M-RGB-3W
	PFB2
	PFBR
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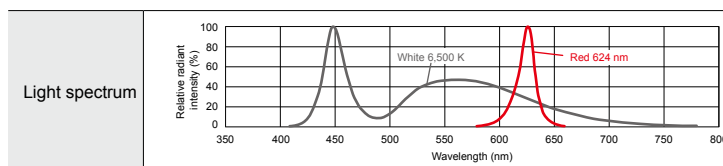
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HLND-2500RD-RR		120 W				8,200 g
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HLND-2700RD-RR		130 W				8,840 g

Reflection types

PSB3-30024 Product Page ▶ P.213

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## LED properties



Be sure to read the "Instruction Guide" included with the product before use and observe cautionary information. The data included is for reference only and does not guarantee the quality of this product.

- LDR2
- LDR2-LA
- LDR-LA1
- SQR
- SQR-TP
- HLDR-IP
- HPR2
- HPR
- LFR
- LKR
- FPR
- FPQ2
- LDL2
- LDLB
- HLDL2
- TH
- LFL
- HPD2
- HPD
- LDM2
- LAV
- PDM
- LFX2
- LFV3
- LFV2
- MSU
- MFU
- UV2
- UV
- LNSP-UV-FN
- IR2
- HLV2
- LV
- LSP
- HFS/HFR
- HLV2-NR
- HLV2-3M-RGB-3W
- PFB2
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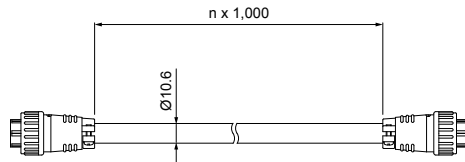
Download here. <http://www.ccs-grp.com/dl/>

## Extension cables

Model name	Cable length	Weight
FCB-2-1.25SQ-ME7	2 m	430 g
FCB-3-1.25SQ-ME7	3 m	580 g
FCB-5-1.25SQ-ME7	5 m	1,000 g
FCB-10-1.25SQ-ME7	10 m	2,000 g
FCB-20-2.0SQ-ME7	20 m	5,000 g

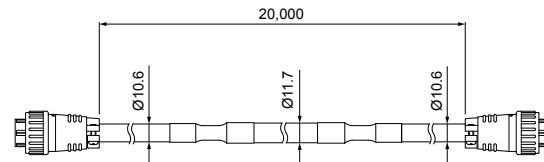
FCB-n-1.25SQ-ME7

(n=2, 3, 5, 10)



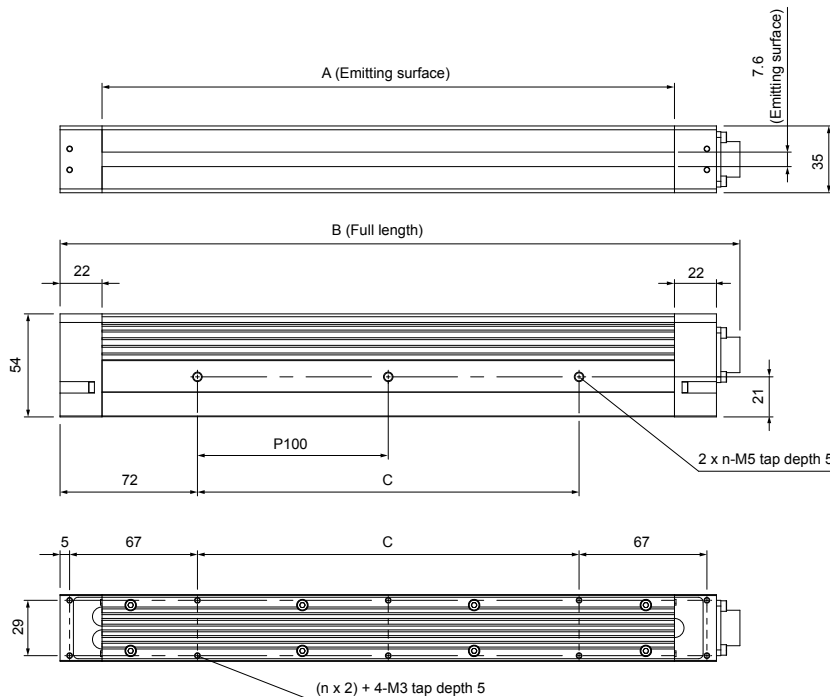
FCB-20-2.0SQ-ME7

(mm)



Cable permitted bending radius: 63.6 mm

## Dimensions (mm)



	Model name (Common for all colors)					Model name (Common for all colors)				
	A (Emitting surface)	B (Full length)	C	n	A (Emitting surface)	B (Full length)	C	n		
Common for the transmission / reflection types	HLND-100SW/RD	100	156.3	-	1	HLND-1500SW/RD	1,500	1,556.3	1,400	15
	HLND-200SW/RD	200	256.3	100	2	HLND-1600SW/RD	1,600	1,656.3	1,500	16
	HLND-300SW/RD	300	356.3	200	3	HLND-1700SW/RD	1,700	1,756.3	1,600	17
	HLND-400SW/RD	400	456.3	300	4	HLND-1800SW/RD	1,800	1,856.3	1,700	18
	HLND-500SW/RD	500	556.3	400	5	HLND-1900SW/RD	1,900	1,956.3	1,800	19
	HLND-600SW/RD	600	656.3	500	6	HLND-2000SW/RD	2,000	2,056.3	1,900	20
	HLND-700SW/RD	700	756.3	600	7	HLND-2100SW/RD	2,100	2,156.3	2,000	21
	HLND-800SW/RD	800	856.3	700	8	HLND-2200SW/RD	2,200	2,256.3	2,100	22
	HLND-900SW/RD	900	956.3	800	9	HLND-2300SW/RD	2,300	2,356.3	2,200	23
	HLND-1000SW/RD	1,000	1,056.3	900	10	HLND-2400SW/RD	2,400	2,456.3	2,300	24
	HLND-1100SW/RD	1,100	1,156.3	1,000	11	HLND-2500SW/RD	2,500	2,556.3	2,400	25
	HLND-1200SW/RD	1,200	1,256.3	1,100	12	HLND-2600SW/RD	2,600	2,656.3	2,500	26
	HLND-1300SW/RD	1,300	1,356.3	1,200	13	HLND-2700SW/RD	2,700	2,756.3	2,600	27
	HLND-1400SW/RD	1,400	1,456.3	1,300	14					

Direct Lighting	LDR2
	LDR2-LA
	LDR-LA1
	SQR
Convergent Lighting	SQR-TP
	HLDL-IP
Diffused Lighting	HPR2
	HPR
	LFR
	LKR
	FPR
	FPQ2
Direct Lighting	LDL2
	LDLB
	HLDL2
Diffused Lighting	TH
	LFL
	HPD2
	HPD
	LDM2
	LAV
	PDM
Colimated Lighting	LFX2
	LFV3
	LFV2
Ultraviolet Lighting	MSU
	MFU
	UV2
Infrared Lighting	UV
	LNSP-UV-FN
Spot Lighting, Etc.	IR2
	HLV2
	LV
	LSP
	HFS/HFR
	HLV2-NR
	HLV2-3M-RGB-3W
PFB2	
PFBR	
Convergent Lighting	LNSP
	CU-LNSP
	LNSP-FN
Diffused Lighting	LN/LN-HK
	LNSD
	LND2
	HLND
Oblique Angled Lighting	LT
	LN/HLDN
Lenses	LNIS
	LNIS-FN
	Telecentric Lens
Macro Lens	