

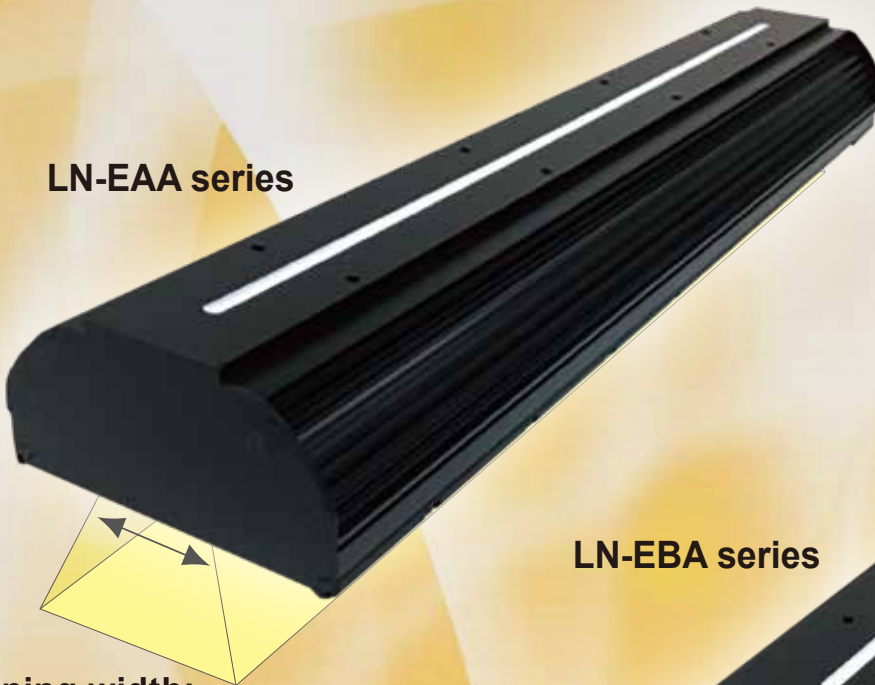
High-Illuminance Tunnel-Dome Lights

LN-EAA / LN-EBA Series

Realizes Shadowless Lighting

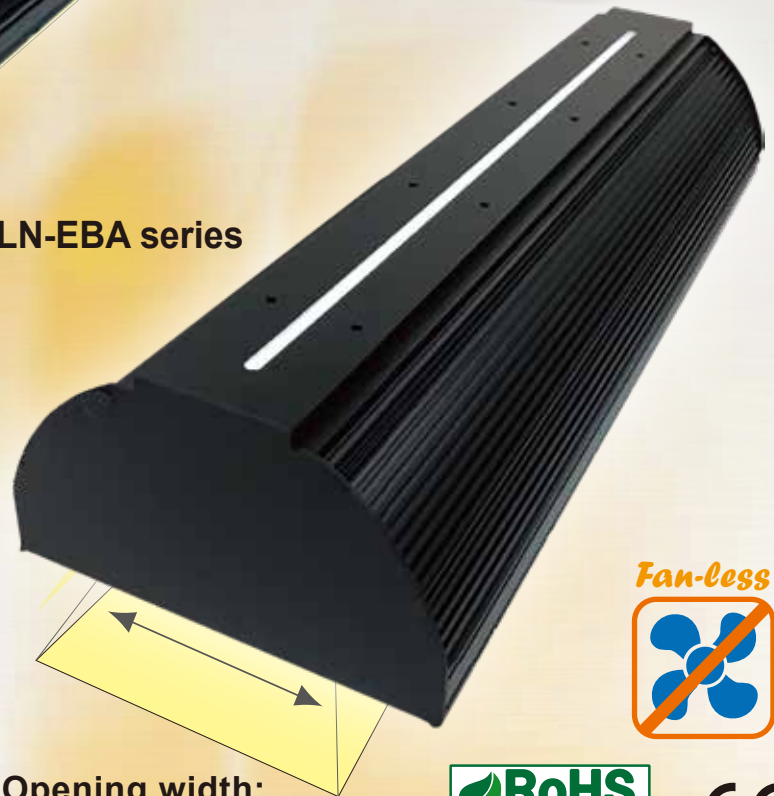
2 series **16** sizes
3 colors (red, white and blue)
96 models in total
LINE-UP!

LN-EAA series



Opening width:
50 mm

LN-EBA series



Opening width:
100 mm

Fan-less



Applications

- ① Steel plate inspection
- ② Glass inspection
- ③ Sheet inspection
- ④ Metal surface inspection
- ⑤ Edge inspection
- ⑥ Light source for line sensors, visual inspection, or image processing; etc.

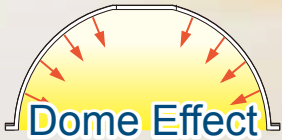


Available only in specific regions. Please contact your CCS sales representative for more information.

High-Illuminance Tunnel-Dome Lights

LN-EAA / LN-EBA Series

LED Color



Fan-less



Opening width:
50 mm

LN-EAA series

Opening width:
100 mm

LN-EBA series



Features

- Light from the LEDs is scattered inside the light unit to evenly illuminate the whole surface of the workpiece, reducing overexposure and underexposure
- Light emitting surface length up to 1,600 mm
- Fan-less cooling system suitable for use in a clean room environment such as for printed circuit board production

Imaging Examples

Appearance Inspection of Telephones

Conventional line light



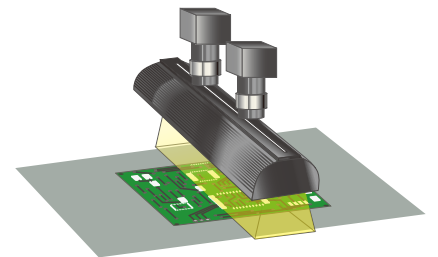
Direct light on the uneven surface causes overexposure and underexposure, resulting in loss of detail.

LN-EAA-series light unit

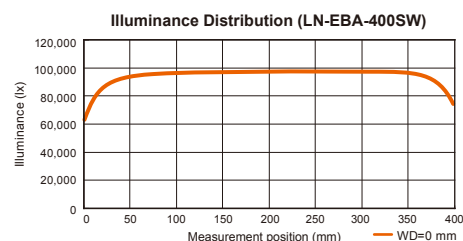
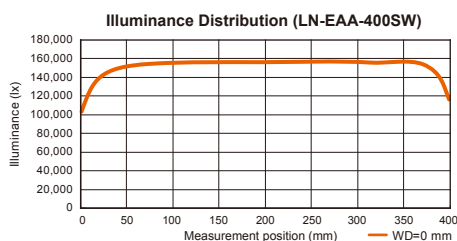


Uniformly diffused light reduces overexposure and underexposure.

Inspection of Solder Resist on Printed Circuit Boards



Data



The data included is for reference only. Actual values may vary.

Lineup

Model name*1	LED color	Emitting surface length (Dimension A)	Camera window length (Dimension B)	Dimension C	Full length (Dimension L)	Power consumption (max.)	Light cable connection	Control Units	Weight		
LN-EAA-100△	Red	100 mm	65 mm	21 mm	129 mm	24 V / 21 W	FCB-AI-□-C1*3	PSB3-30024	418 g		
LN-EAA-200△		200 mm	165 mm		229 mm	24 V / 40 W			756 g		
LN-EAA-300△		300 mm	265 mm		329 mm	24 V / 60 W			1,093 g		
LN-EAA-400△		400 mm	365 mm		429 mm	24 V / 79 W			1,430 g		
LN-EAA-500△		500 mm	465 mm		529 mm	24 V / 98 W			1,767 g		
LN-EAA-600△		600 mm	565 mm		629 mm	24 V / 118 W			2,105 g		
LN-EAA-700△		700 mm	665 mm		729 mm	24 V / 137 W			2,442 g		
LN-EAA-800△		800 mm	765 mm		829 mm	24 V / 157 W			2,779 g		
LN-EAA-900△		White	900 mm	865 mm	43 mm	951 mm	24 V / 176 W	FCB-AI-□-C3*3	PSB4-30024-PEI	3,211 g	
LN-EAA-1000△			1,000 mm	965 mm		1,051 mm	24 V / 195 W			3,549 g	
LN-EAA-1100△		Blue	1,100 mm	525 mm x 2 pcs.*2 + 15 mm		1,151 mm	24 V / 215 W		3,886 g		
LN-EAA-1200△			1,200 mm	575 mm x 2 pcs.*2 + 15 mm		1,251 mm	24 V / 234 W		4,223 g		
LN-EAA-1300△			1,300 mm	625 mm x 2 pcs.*2 + 15 mm		1,351 mm	24 V / 254 W		4,560 g		
LN-EAA-1400△			1,400 mm	675 mm x 2 pcs.*2 + 15 mm		1,451 mm	24 V / 273 W		4,898 g		
LN-EAA-1500△			1,500 mm	725 mm x 2 pcs.*2 + 15 mm		1,551 mm	24 V / 292 W		5,235 g		
LN-EAA-1600△			1,600 mm	775 mm x 2 pcs.*2 + 15 mm		1,651 mm	24 V / 312 W		5,572 g		
										PSB4-60024-2-PEI	

Model name*1	LED color	Emitting surface length (Dimension A)	Camera window length (Dimension B)	Dimension C	Full length (Dimension L)	Power consumption (max.)	Light cable connection	Control Units	Weight		
LN-EBA-100△	Red	100 mm	65 mm	21 mm	129 mm	24 V / 21 W	FCB-AI-□-C1*3	PSB3-30024	599 g		
LN-EBA-200△		200 mm	165 mm		229 mm	24 V / 40 W			1,043 g		
LN-EBA-300△		300 mm	265 mm		329 mm	24 V / 60 W			1,486 g		
LN-EBA-400△		400 mm	365 mm		429 mm	24 V / 79 W			1,930 g		
LN-EBA-500△		500 mm	465 mm		529 mm	24 V / 98 W			2,374 g		
LN-EBA-600△		600 mm	565 mm		629 mm	24 V / 118 W			2,818 g		
LN-EBA-700△		700 mm	665 mm		729 mm	24 V / 137 W			3,261 g		
LN-EBA-800△		800 mm	765 mm		829 mm	24 V / 157 W			3,705 g		
LN-EBA-900△		White	900 mm	865 mm	43 mm	951 mm	24 V / 176 W	FCB-AI-□-C3*3	PSB4-30024-PEI	4,295 g	
LN-EBA-1000△			1,000 mm	965 mm		1,051 mm	24 V / 195 W			4,739 g	
LN-EBA-1100△		Blue	1,100 mm	525 mm x 2 pcs.*2 + 15 mm		1,151 mm	24 V / 215 W		5,183 g		
LN-EBA-1200△			1,200 mm	575 mm x 2 pcs.*2 + 15 mm		1,251 mm	24 V / 234 W		5,627 g		
LN-EBA-1300△			1,300 mm	625 mm x 2 pcs.*2 + 15 mm		1,351 mm	24 V / 254 W		6,070 g		
LN-EBA-1400△			1,400 mm	675 mm x 2 pcs.*2 + 15 mm		1,451 mm	24 V / 273 W		6,514 g		
LN-EBA-1500△			1,500 mm	725 mm x 2 pcs.*2 + 15 mm		1,551 mm	24 V / 292 W		6,958 g		
LN-EBA-1600△			1,600 mm	775 mm x 2 pcs.*2 + 15 mm		1,651 mm	24 V / 312 W		7,402 g		
										PSB4-60024-2-PEI	

*1 "△" mark is the model name indicates the LED color with one of the following letters : SW(White), RD(Red), or BL(Blue)

*2 The light unit has two camera windows. Please refer to the dimension diagrams shown below.

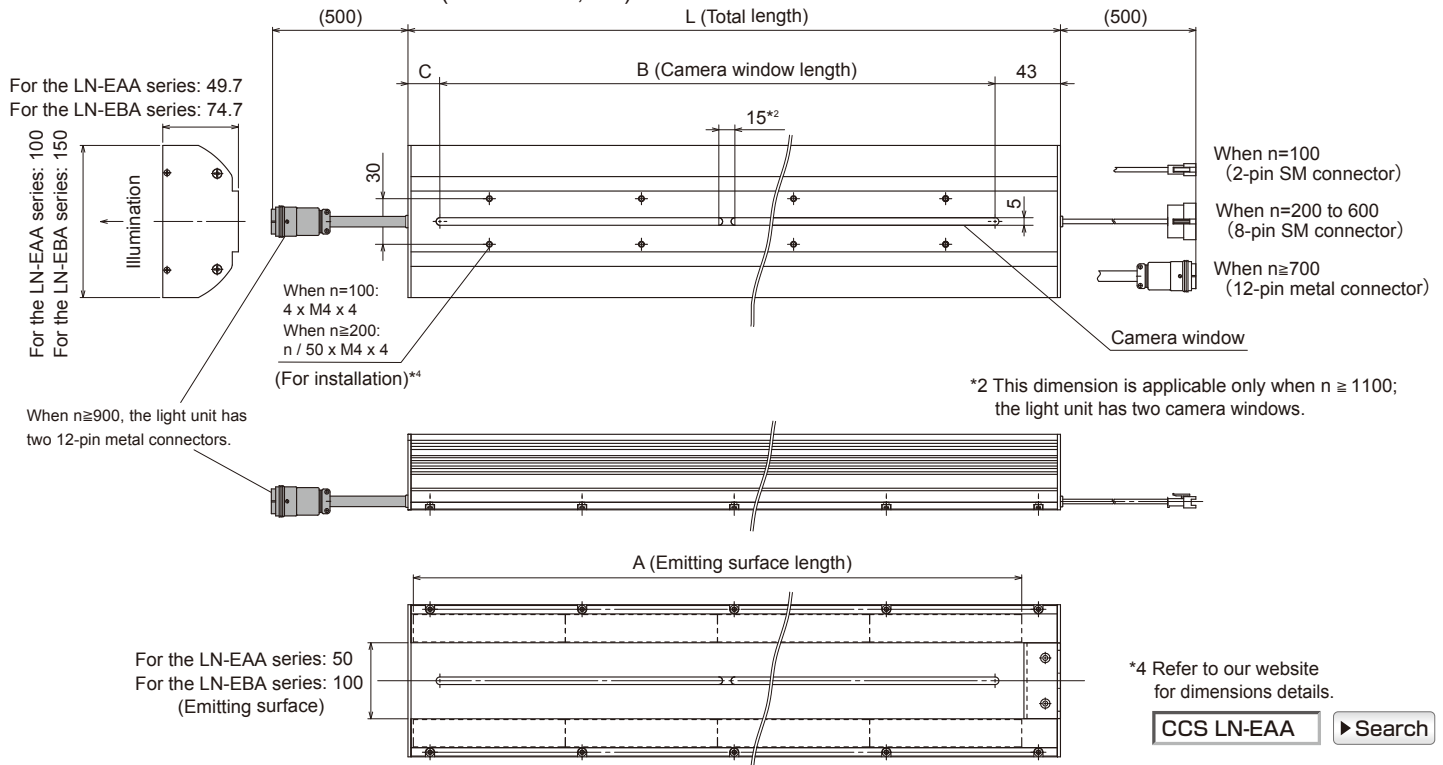
*3 □ : Cable length. (□=2, 3, 5, 10)

* The Light Units of both series conform to the safety standard EN 62471.

* Warranty for this product differs from CCS standard lighting. Contact your local sales office for details.

Dimensions (Unit: mm)

LN-EAA-n / LN-EBA-n Series (n = 100 to 1,600)

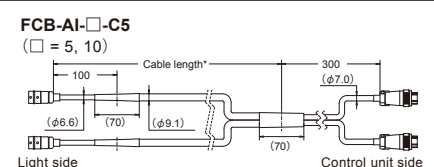
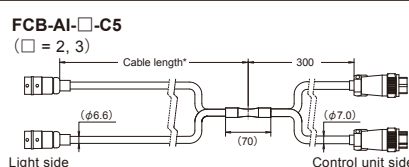
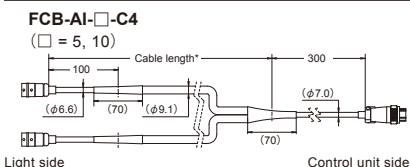
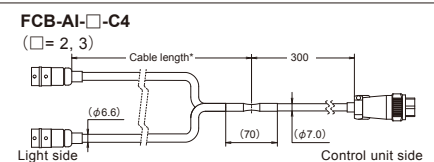
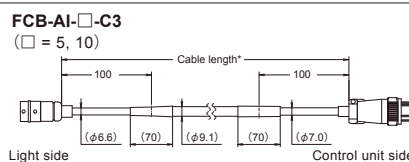
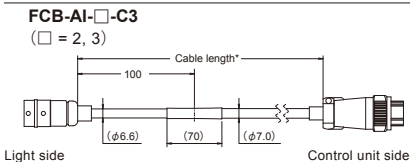
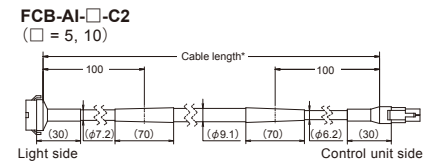
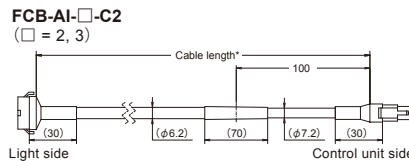
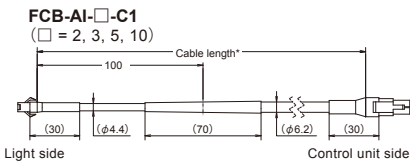


Emitting surface length(mm)	Light cable connection - pin Assignment	Light cable connection	Extension cables	Control Units
100		2-pin SM connector	FCB-AI-□-C1 	PSB3-30024
200~600		8-pin SM connector	FCB-AI-□-C2 	PSB4-30024-PEI
700~800		12-pin metal connector	FCB-AI-□-C3 	PSB4-60024-2-PEI
900~1,500		12-pin metal connector	FCB-AI-□-C4 	PSB4-60024-2-PEI
1,600		12-pin metal connector	FCB-AI-□-C5 	PSB4-60024-2-PEI

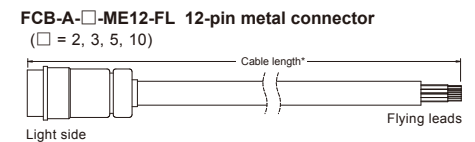
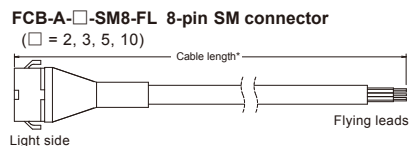
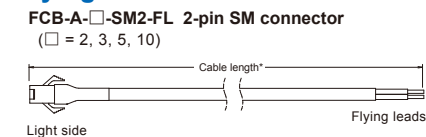
Optional Cables

Extension cables * Cable length = □ meters

* When using the controller, please use an extension cable.



Flying leads cables



*CCS, "LIGHTING SOLUTION" and "CCS Altec" are registered trademarks or trademarks of CCS Inc. Available only in specific regions. Please contact your CCS sales representative for more information.

Notes

- The design and specifications of this product are subject to change without notification for product improvement.
- The workpiece imaging examples included in this brochure are intended to serve only as references to help you select a suitable light unit. Please verify the functionality and conditions required for your particular application before you make a final selection. The sample workpieces used in this brochure have been processed specifically for sample imaging. They are not intended to represent product quality and performance.



For information on your nearest CCS office, refer to our website.
<https://www.ccs-grp.com/office/>



Headquarters (Kyoto, Japan)
TEL: +81-75-415-8277, FAX: +81-75-415-8278
E-mail: sales@ccs-inc.co.jp
<https://www.ccs-grp.com/>

CCS America, Inc. (USA)
TEL: +1-781-272-6900, FAX: +1-781-272-6902
Email: info@ccsamerica.com
<https://www.ccsamerica.com/>

CCS Europe N. V. (Belgium)
TEL: +32-(0)2-333-0080, FAX: +32-(0)2-333-0081
Email: info@ccseu.com

CCS Asia PTE. LTD. (Singapore)
TEL: +65-6363-1180, FAX: +65-6363-1236
Email: sales@ccs-asia.com.sg
<http://www.ccs-asia.com.sg/>

CCS MV (Thailand) Co., Ltd.
TEL: +66-(0)2-779-1051, FAX: +66-(0)2-779-1054
Email: sales@ccs-asia.com.sg
<http://www.ccs-asia.com.sg/>

CCS MV (Malaysia) Sdn. Bhd.
TEL: +604-611-6656
Email: sales-msia@ccs-asia.com.sg
<http://www.ccs-asia.com.sg/>

CCS China Inc. (Shenzhen)
TEL: +86-755-8279-0477, FAX: +86-755-8279-0478
Email: ccschina@ccs-inc.co.jp
<https://www.ccs-inc.cn/>

Taiwan Office
TEL: +886-2-2581-7676, FAX: +886-2-2581-7662
Email: taiwan-tr@ccs-inc.co.jp

KOREA Testing Room
Email: ccskorea@ccs-inc.co.jp