

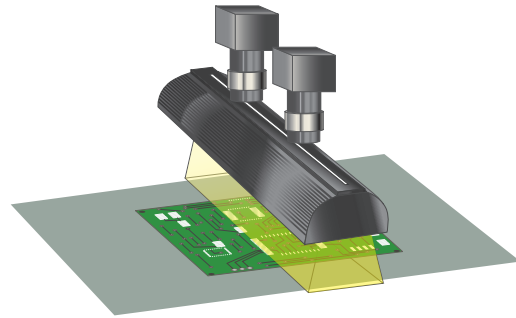
## Product Introduction



CCS Inc., the leading manufacturer of LED Lighting Solutions for Machine Vision, has released the new high intensity tunnel dome lights, LN-EAA and LN-EBA Series. With these new tunnel dome series, CCS Inc. addresses the industry's rapidly growing need for high-performance line lights at longer lengths. The LN-EAA and the LN-EBA Series are high-illuminance tunnel dome lights with natural cooling for uniform illumination. Both series come standard in Red, White, and Blue, and are available up to 1.6m. These new tunnel dome lights are the ideal solution for the inspection of uneven or irregular surfaces in line sensor and line scan applications. Key applications for these new series include PCB production inspections, inspecting steel, sheet metal, and glass inspection.

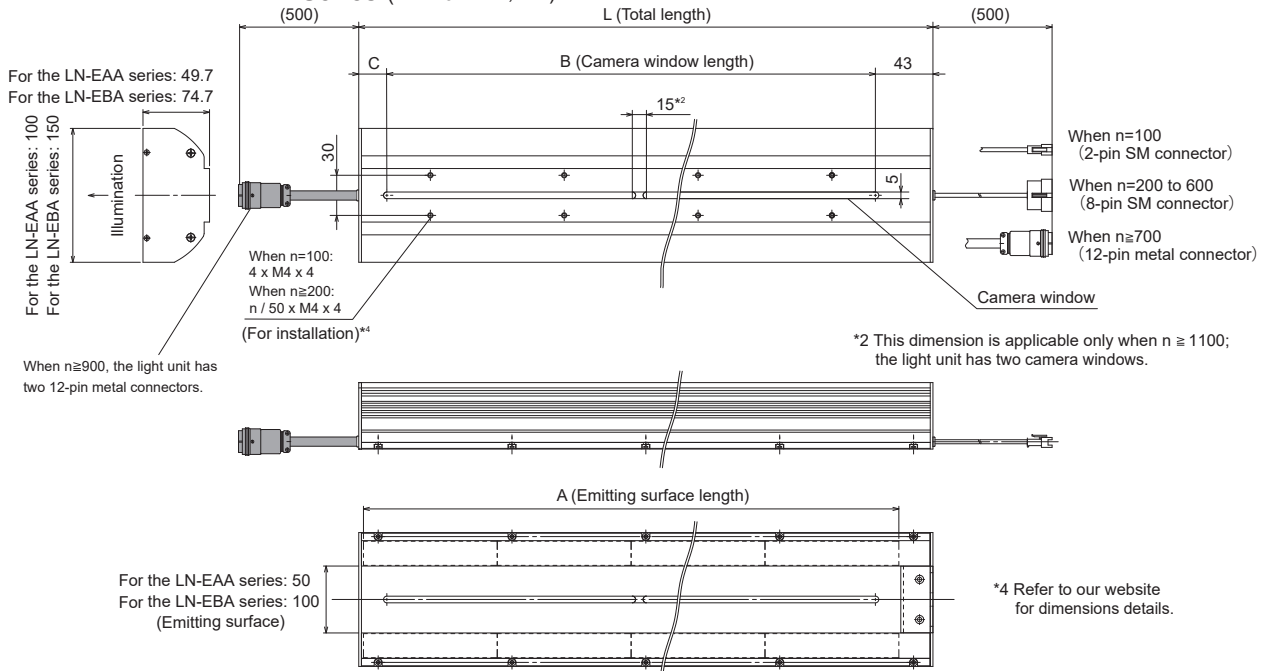
## Main Features

- Highly diffused output
- Natural air-cooled suitable for clean environments
- Available in:
  - Red, White, and Blue
  - Up to 1.6m as a standard
- Two versions:
  - **LN-EAA:** Opening width of 50mm for high intensity
  - **LN-EBA:** Opening width of 100mm for high uniformity



## Product drawings

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


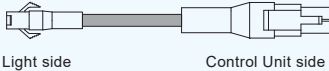

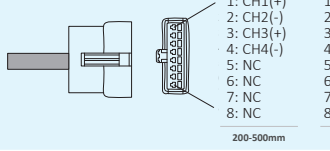
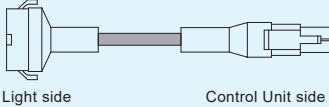

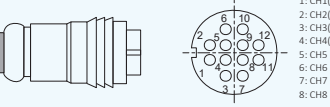
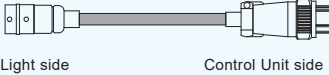

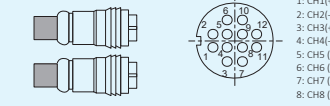
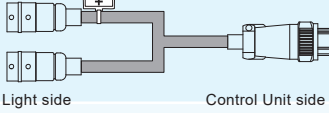

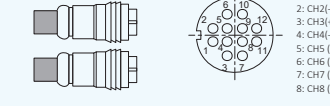




# Product Lineup

Model name	LED color	Emitting surface length (Dimension A)* <sup>1</sup>	Camera window length (Dimension B)	Dimension C	Full length (Dimension L)	Power consumption (max.)	Light cable connection	Control Units	Weight
LN-EAA-100XX	Red White Blue	100 mm	65 mm	21 mm	129 mm	24 V / 21 W	FCB-AI- □ -C1 <sup>3</sup>	PSB3-30024	418 g
LN-EAA-200XX		200 mm	165 mm		229 mm	24 V / 40 W			756 g
LN-EAA-300XX		300 mm	265 mm		329 mm	24 V / 60 W			1,093 g
LN-EAA-400XX		400 mm	365 mm		429 mm	24 V / 79 W			1,430 g
LN-EAA-500XX		500 mm	465 mm		529 mm	24 V / 98 W			1,767 g
LN-EAA-600XX		600 mm	565 mm		629 mm	24 V / 118 W			2,105 g
LN-EAA-700XX		700 mm	665 mm	729 mm	24 V / 137 W	2,442 g			
LN-EAA-800XX		800 mm	765 mm	829 mm	24 V / 157 W	2,779 g			
LN-EAA-900XX		900 mm	865 mm	929 mm	24 V / 176 W	3,211 g			
LN-EAA-1000XX		1,000 mm	965 mm	1,051 mm	24 V / 195 W	3,549 g			
LN-EAA-1100XX		1,100 mm	525 mm x 2 pcs. <sup>2</sup> + 15 mm	1,151 mm	24 V / 215 W	3,886 g			
LN-EAA-1200XX		1,200 mm	575 mm x 2 pcs. <sup>2</sup> + 15 mm	1,251 mm	24 V / 234 W	4,223 g			
LN-EAA-1300XX		1,300 mm	625 mm x 2 pcs. <sup>2</sup> + 15 mm	1,351 mm	24 V / 254 W	4,560 g			
LN-EAA-1400XX		1,400 mm	675 mm x 2 pcs. <sup>2</sup> + 15 mm	1,451 mm	24 V / 273 W	4,898 g			
LN-EAA-1500XX		1,500 mm	725 mm x 2 pcs. <sup>2</sup> + 15 mm	1,551 mm	24 V / 292 W	5,235 g			
LN-EAA-1600XX		1,600 mm	775 mm x 2 pcs. <sup>2</sup> + 15 mm	1,651 mm	24 V / 312 W	5,572 g			
LN-EBA-100XX	Red White Blue	100 mm	65 mm	21 mm	129 mm	24 V / 21 W	FCB-AI- □ -C1 <sup>3</sup>	PSB3-30024	599 g
LN-EBA-200XX		200 mm	165 mm		229 mm	24 V / 40 W			1,043 g
LN-EBA-300XX		300 mm	265 mm		329 mm	24 V / 60 W			1,486 g
LN-EBA-400XX		400 mm	365 mm		429 mm	24 V / 79 W			1,930 g
LN-EBA-500XX		500 mm	465 mm		529 mm	24 V / 98 W			2,374 g
LN-EBA-600XX		600 mm	565 mm		629 mm	24 V / 118 W			2,818 g
LN-EBA-700XX		700 mm	665 mm	729 mm	24 V / 137 W	3,261 g			
LN-EBA-800XX		800 mm	765 mm	829 mm	24 V / 157 W	3,705 g			
LN-EBA-900XX		900 mm	865 mm	929 mm	24 V / 176 W	4,295 g			
LN-EBA-1000XX		1,000 mm	965 mm	1,051 mm	24 V / 195 W	4,739 g			
LN-EBA-1100XX		1,100 mm	525 mm x 2 pcs. <sup>2</sup> + 15 mm	1,151 mm	24 V / 215 W	5,183 g			
LN-EBA-1200XX		1,200 mm	575 mm x 2 pcs. <sup>2</sup> + 15 mm	1,251 mm	24 V / 234 W	5,627 g			
LN-EBA-1300XX		1,300 mm	625 mm x 2 pcs. <sup>2</sup> + 15 mm	1,351 mm	24 V / 254 W	6,070 g			
LN-EBA-1400XX		1,400 mm	675 mm x 2 pcs. <sup>2</sup> + 15 mm	1,451 mm	24 V / 273 W	6,514 g			
LN-EBA-1500XX		1,500 mm	725 mm x 2 pcs. <sup>2</sup> + 15 mm	1,551 mm	24 V / 292 W	6,958 g			
LN-EBA-1600XX		1,600 mm	775 mm x 2 pcs. <sup>2</sup> + 15 mm	1,651 mm	24 V / 312 W	7,402 g			

\*1 The available emitting surface lengths are in units of 100 mm.  
 \*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.

## Light Cable connectors

Length	Light cable connection - pin assignment	Connector	Extension cables	Control unit
100mm		2-pin SM connector	FCB-AI- -C1 	PSB3-30024 
200-600mm		8-pin SM connector	FCB-AI- -C2 	PSB4-30024-PEI 
700-800mm		12-pin metal connector	FCB-AI- -C3 	PSB4-60024-2-PEI 
900-1500mm		12-pin metal connector	FCB-AI- -C4 	PSB4-60024-2-PEI 
1600mm		12-pin metal connector	FCB-AI- -C5 	PSB4-60024-2-PEI 

For further information, please contact your local CCS representative  
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