

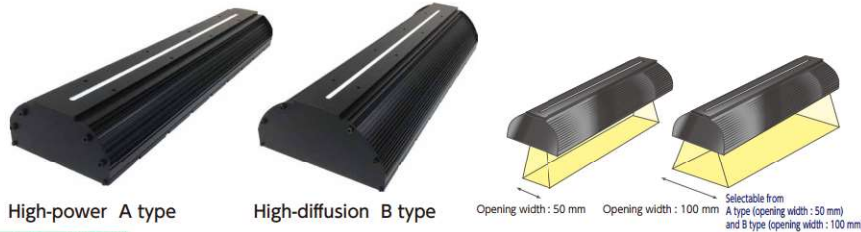
High-brightness Line Dome Illumination (LLDEA/LLDEB Series)

High-brightness line dome illumination

High-brightness line dome illumination

LLDEA/LLDEB Series

Line dome illumination (half-pipe illumination) irradiates diffused light



High-power A type

High-diffusion B type

Opening width : 50 mm Opening width : 100 mm Selectable from A type (opening width : 50 mm) and B type (opening width : 100 mm)



Features

- Compact, natural heat dissipating line dome illumination (half-pipe illumination) model irradiates diffused light.
- The light irradiated into the dome is diffused for uniform irradiation to the work surface.
- Halation and shadowing (due to sample surface irregularities) is reduced in images.
- Best suited for high-speed inspection lines by using dome illumination, higher-illuminance, and improved camera resolution.
- This natural heat dissipation model is also usable in a clean room environment such as for printed circuit board production.

Application example

Steel plate inspection, glass inspection, sheet inspection, metal surface inspection, edge inspection, line sensor light source, visual inspection light source, image processing light source

Inspection of solder resist on printed circuit boards



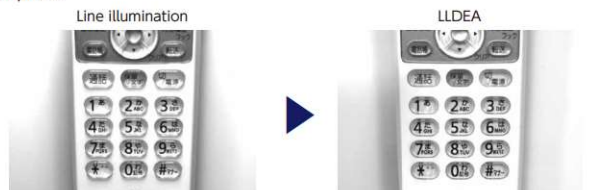
Example of customization

Changing the area camera photographing window from slit to round hole



Example of imaging

- Inspection of telephone



Difficult to recognize characters due to shadowing around irregularities of buttons and halation caused by direct light of line illumination

Shade and halation can be suppressed with uniform soft light.

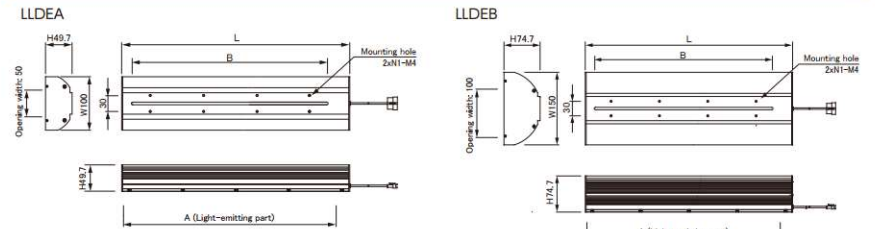
Product Specifications

LLDEA high-power type						
Model	LxWxH (mm)	Light-emitting part A [mm]	Photographing window B [mm]	Power consumption (white) [W]	Input voltage [V]	Example of applicable power supply
LLDEA100N*	129x100x49.7	100	65	21	24	LPDC1-2430W-R6
LLDEA200N*	229x100x49.7	200	165	40	24	LPDC1-24151W-R6-B2
LLDEA300N*	329x100x49.7	300	265	60	24	LPDC1-24151W-R9-C2B2
LLDEA400N*	429x100x49.7	400	365	79	24	LPDC1-24151W-1R2-C2B2
LLDEA500N*	529x100x49.7	500	465	98	24	LPDC1-24151W1R5-C3B2
LLDEA600N*	629x100x49.7	600	565	118	24	LPDC1-24151W-R9-C2B4
LLDEA700N*	729x100x49.7	700	665	137	24	LPDCJ1D-36301W-1R05
LLDEA800N*	829x100x49.7	800	765	157	24	LPDCJ1D-36301W-1R2
LLDEA900N*	929x100x49.7	900	865	176	24	LPDCJ1D-36301W-R68
LLDEA1000N*	1029x100x49.7	1000	965	195	24	LPDCJ1D-36301W-R75

LLDEB high-diffusion type						
Model	LxWxH (mm)	Light-emitting window A [mm]	Photographing window B [mm]	Power consumption (white) [W]	Input voltage [V]	Example of applicable power supply
LLDEB100N*	129x150x74.7	100	65	21	24	LPDC1-2430W-R6
LLDEB200N*	229x150x74.7	200	165	40	24	LPDC1-24151W-R6-B2
LLDEB300N*	329x150x74.7	300	265	60	24	LPDC1-24151W-R9-C2B2
LLDEB400N*	429x150x74.7	400	365	79	24	LPDC1-24151W-1R2-C2B2
LLDEB500N*	529x150x74.7	500	465	98	24	LPDC1-24151W1R5-C3B2
LLDEB600N*	629x150x74.7	600	565	118	24	LPDC1-24151W-R9-C2B4
LLDEB700N*	729x150x74.7	700	665	137	24	LPDCJ1D-36301W-1R05
LLDEB800N*	829x150x74.7	800	765	157	24	LPDCJ1D-36301W-1R2
LLDEB900N*	929x150x74.7	900	865	176	24	LPDCJ1D-36301W-R68
LLDEB1000N*	1029x150x74.7	1000	965	195	24	LPDCJ1D-36301W-R75

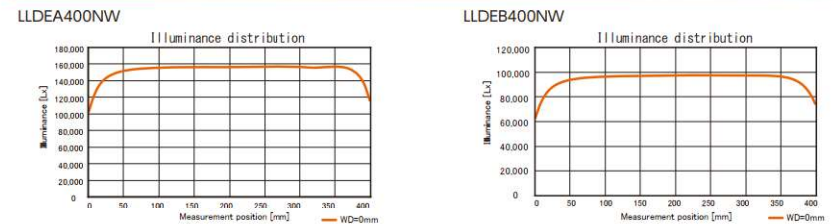
- * in Model : Emission color W (white) R (red) G (green) B (blue)
- Available emitter length size : units of 100 mm
- Power for emitting color G (Green) is different from the list above. For more information, please contact with our sales representative.
- For details about other sizes, contact our sales department.

Outer dimensions



* Product specifications are subject to change without notice.

Data (Typical example)



* Graph information (for reference only) does not guarantee product quality.