

MetaBright™ Line Light Model:MB-LL106





Metaphase offers the industry's breakthrough performance line lights for imaging, web, and high-speed line scan applications requiring ultra-high intensity and uniformity. Our line lights are built as lean fixtures that can be easily controlled and integrated into visions systems.

Our MetaBrightTM Line Lights feature an adjustable lens, enhanced cooling options, and low current consumption. Our new computer-operated microflow compressed air thermal control and integrated fan cooling systems allow Metaphase Line Lights to operate cool, a thermal advantage in many applications.

BENEFITS:

- High Uniformity both laterally and longitudinally
- High Intensity, over 1 million Lux
- Lens Options for various beam widths and working distances
- Cooling Options include convection, fans, compressed air with and without Computer air flow control, etc
- Available in various Light wavelengths including IR, UV and RGB
- Strobe synchronization; Control compatibility for high precision pulse-modulation and 0-10V Intensity Control capability
- Adjustable lens focusing range of mm to meters
- Backlight versions for web backlight & silhouetting applications
- From 1" to 120" (10ft) in length
- Built-in constant current driver(s) consistent illumination output
- 24V version require no special controllers; simply provide 24VDC

APPLICATIONS:

- Road Surface Inspection
- Bottle Inspection
- High Speed Scanning
- Sheet Inspection
- Web Inspection
- Print Inspection

RATINGS:







DOMINANT WAVELENGTH:

Part #	Color	Power Supply
MB-LL106-W-24	White 5500K	
MB-LL106-R-24	Red 630nm	
MB-LL106-B-24	Blue 470nm (Optional 455nm)	
MB-LL106-G-24	Green 530nm	24 volt power supply available
MB-LL106-IRN-24	Infrared 850nm	upon request.
MB-LL106-IRL-24	Infrared 880nm	
MB-LL106-UVL-24	UV 395nm	
MB-LL106-UVS-24	UV 365nm	

10 ft. flying leads come standard on all products. Light features built-in constant current driver. No expensive controller required.



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ELECTRICAL & CONTROLS:

Current Consumption 0.5A - 0.8A

Light Intensity +/-5%

Illuminance 1.6Million Lux

Operating Temperature -40°F(-45°) to 100°F (37.8°C)

Lifetime Hours 75,000 Hours

WIRING DIAGRAM:

RED +24VDC

GREEN Signal Ground

BLACK Ground

WHITE 0-10VDC Intensity Control

24 AWG 4 WIRES CABLE X 1

When not using intensity control, connect 0-10V control line to +24 (Max Intensity Control = 25V) and intensity control ground to ground

HOUSING:

Dimensions Length: 3in/76.2mm

Width: 1.57in/39.9mm

Height: 4.35in/110.6mm

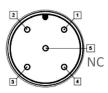
Weight 2lb/ 907.185g

Housing Aluminum

Finish Powder Coating - Black

WIRING DIAGRAM:

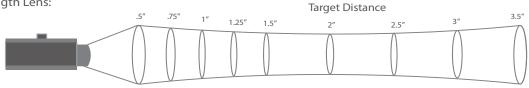
PIN#	Function					
1	+24VDC					
2	0-10VDC Intensity Control					
3	Ground					
4	Signal Ground					



FOCAL LENS:

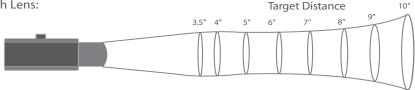
KEY: values in parenthesis are millimeter measurements

Standard Focal Length Lens:



Target Distance	0.5" (13)	0.75" (19)	1.00" (25)	1.25" (32)	1.50 (38)	2.00" (51)	2.50" (68)	3.00" (88)	3.50" (89)
Intensity (million LUX)	.80	1.27	1. 2 1	1. 18	1.16	.90	. 66	.47	.32
Line Width	0.4 (10)	.25 (6.3)	.2 (5)	.2 (5)	.18 (4.6)	.18 (4.6)	.18 (4.6)	.3 (7.6)	>.3 (10)

Longer Focal Length Lens:



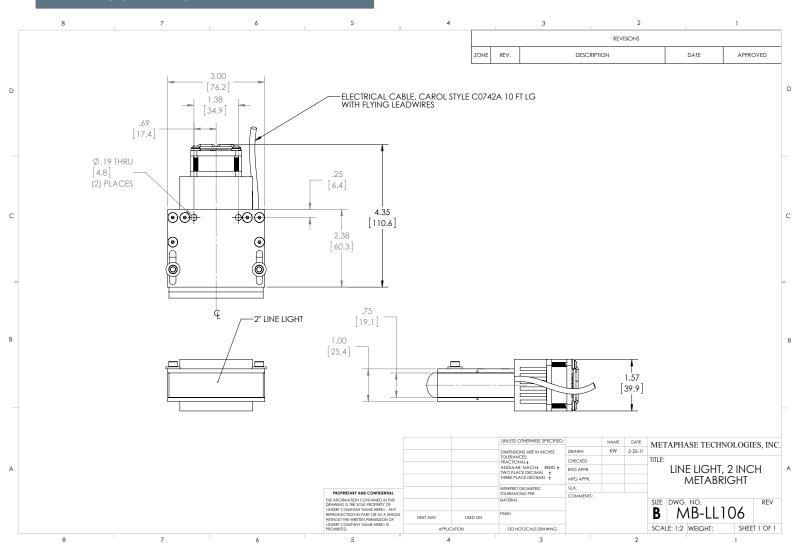
Target Distance	3.5" (89)	4.0" (102)	5.0" (127)	6.0" (162)	7.0" (178)	8.0" (203)	9.0" (229)	10.0" (264)
Intensity (million LUX)*	1.07	1.1	1.1	1.1	1.1	1.09	1.04	.98
Line Width	.2 (5)	.2 (5)	.2 (5)	.35 (8.9)	.4 (10)	.4 (10)	.5 (12.7)	.6 (15.2)



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DRAWING & DETAILS:



ORDERING INFORMATION: • MB-LL106 - 24 -W-White 6000k *BLANK-10 ft. Flying Leads **Back Line Light Option:** Replace designator "LL" with R-Red 630nm T-M12 Quick Disconnect G-Green 530nm **ILD-** In Line Dimmer "BLL" on the prefix for units **B**-Blue 470 nm **ILS**- In Line Strobe (customer provide trigger info) deployed in transmitted imag-(Optional 450nm) **LL** - Long Focal Lens ing applications. IRN-Infrared 850nm **NF**- No Fans ex: MB-BLL106-R-24 **UVL**- (long) 395nm **CP**- Cool Pack Cooling **UVS**- (short) 365nm (compressed air) * Intensity will be lower for NON-Fan option