

MetaLight™ Line Light Model:LL404





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 MetaLight™ Line Lights feature an adjustable lens, enhanced cooling options, and low current consumption.

BENEFITS:

- •High Uniformity both laterally and longitudinally
- •Lens Options for various beam widths and working distances
- •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) provides consistent illumination output
- •24V version require no special controllers; simply provide 24VDC

APPLICATIONS:

- Road Surface Inspection
- Bottle Inspection
- High Speed Scanning
- Geometry Measurement
- Detection of Holes
- Sheet Inspection
- Web Inspection
- Print Inspection
- Fabrics Inspection
- Solar Cells

RATINGS:







DOMINANT WAVELENGTH:

Part #	Color	Power Supply
LL404-W-24	White 5500K	
LL404-R-24	Red 630nm	
LL404-B-24	Blue 470nm (Optional 455nm)	
LL404-G-24	Green 530nm	24 volt power supply available upon request.
LL404-IRN-24	Infrared 850nm	

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 0.75A - 1.0A

Light Intensity +/-5%

Illuminance 220,000 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

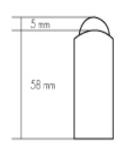
WHITE 0-10VDC Intensity Control

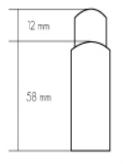
18 AWG 4 WIRES CABLE X 1

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

FOCAL LENS:

Metalight Line Light Lens Options





HOUSING:

Dimensions Length: 16in / 406.4mm

Width: 1in / 25.4mm Height: 2.95in / 74.88mm

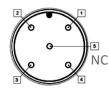
Weight 1.25lb/ 566.99g

Housing Aluminum

Finish Powder Coating - Black

WIRING DIAGRAM:

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

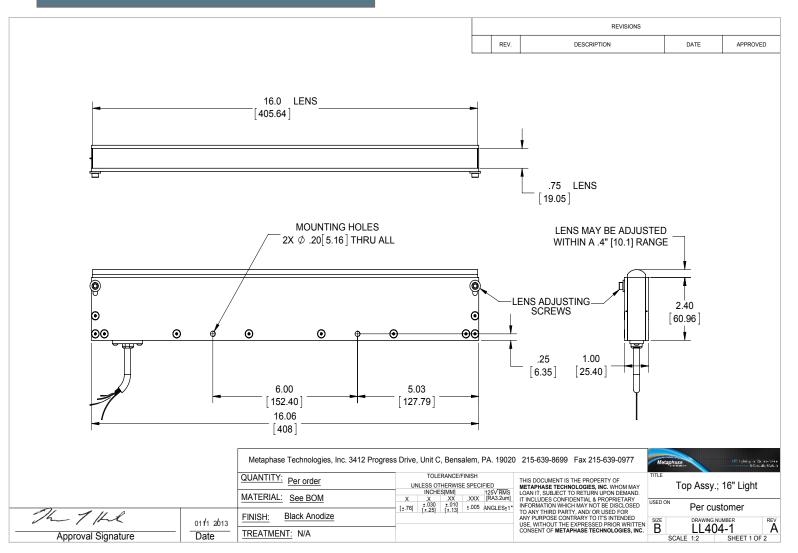




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DRAWING & DETAILS:



ORDERING INFORMATION: • L L 4 0 4 - 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 ex: BLL404-R-24 * Intensity will be lower for NON-Fan option