

# LL

## MetaLight™ Line Light Model:LL504



**Vision Light Tech**  
creating optical solutions



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                                 |
|--------------|-----------------------------|--|
| LL504-W-24   | White 5500K                 |  |
| LL504-R-24   | Red 630nm                   |  |
| LL504-B-24   | Blue 470nm (Optional 455nm) |  |
| LL504-G-24   | Green 530nm                 | 24 volt power supply available upon request. |
| LL504-IRN-24 | Infrared 850nm              |  |

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

#### Vision Light Tech B.V.

Protonenlaan 22, 5405 NE UDEN, P.O. Box 345, 5400 AH UDEN, The Netherlands

Phone: +31 (0)413 26 00 67, Fax +31 (0)413 26 09 38, E-mail: inquiry@vlt.nl, Website: www.vlt.nl

Trade register No. 17150044, VAT No. NL8112.30.946.B01



# MetaLight™ Line Light

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### ELECTRICAL & CONTROLS:

|                       |                               |
|-----------------------|-------------------------------|
| Current Consumption   | 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:

|               |                           |
|---------------|---------------------------|
| WHITE & RED   | +24VDC                    |
| GREEN         | Signal Ground             |
| BLACK & GREEN | Ground                    |
| WHITE         | 0-10VDC Intensity Control |

18 AWG 4 WIRES CABLE X 1 w/ 24 AWG 2 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: 21.07in / 535.2mm<br>Width: 1in / 25.4mm<br>Height: 2.95in / 74.88mm |
| Weight     | 1.5lb/ 680.389 g   |
| Housing    | Aluminum   |
| Finish     | Powder Coating - Black   |

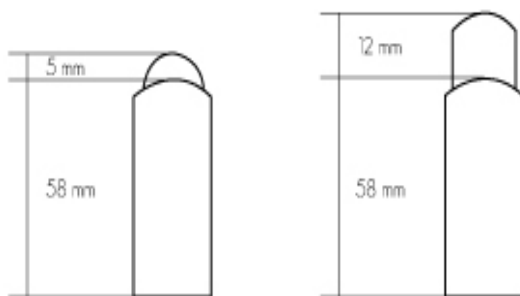
### WIRING DIAGRAM:

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



### FOCAL LENS:

#### MetaLight Line Light Lens Options



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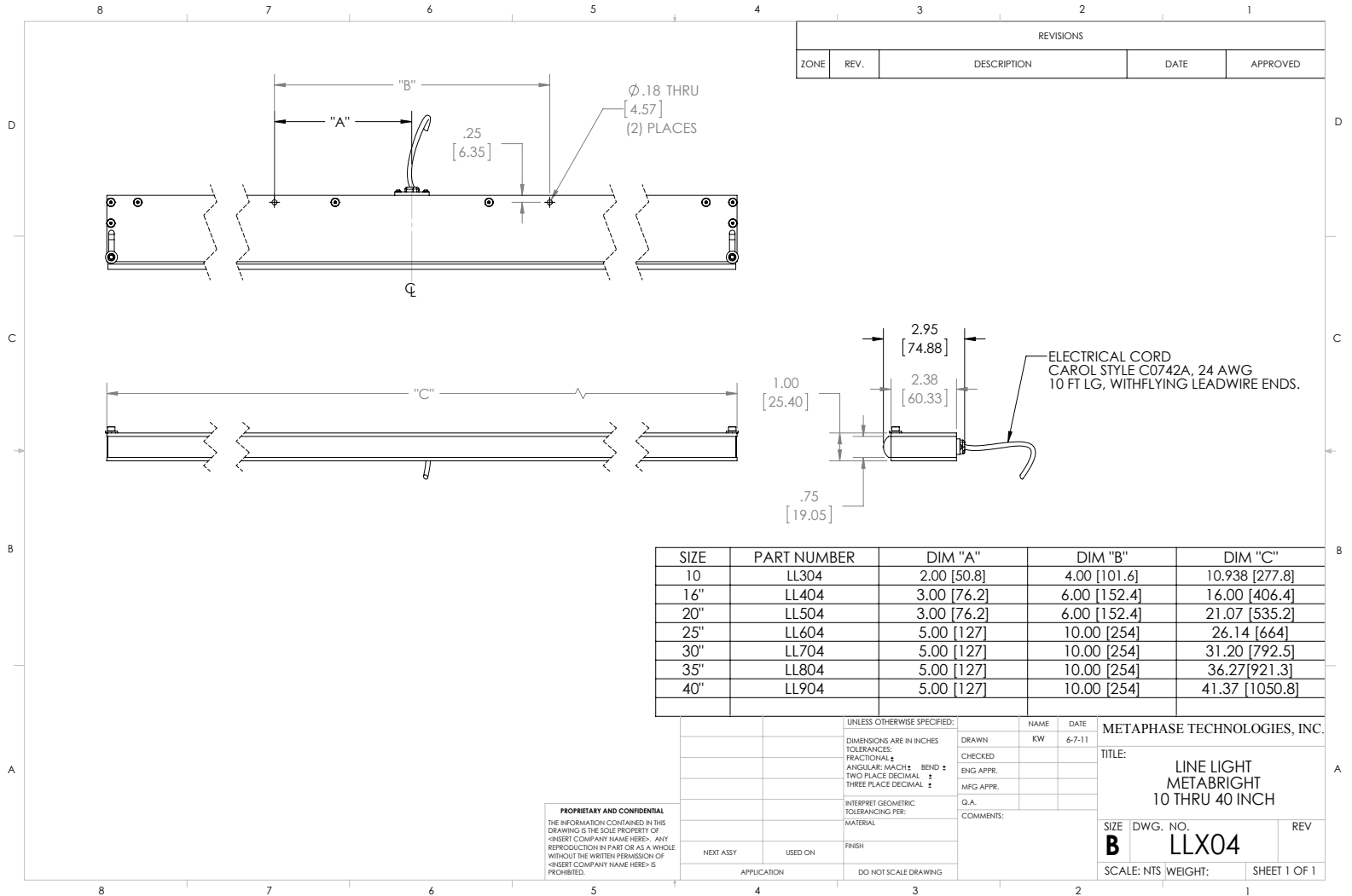


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## DRAWING & DETAILS:



## ORDERING INFORMATION:

• LL504 - □ - 24 - □

**Back Line Light Option:**  
Replace designator "LL" with "BLL" on the prefix for units deployed in transmitted imaging applications.  
ex: BLL504-R-24

**W**- White 6000k  
**R**- Red 630nm  
**G**- Green 530nm  
**B**- Blue 470 nm  
(Optional 450nm)  
**IRN**- Infrared 850nm

\***BLANK**- 10 ft. Flying Leads  
**T**- M12 Quick Disconnect  
**ILD**- In Line Dimmer  
**ILS**- In Line Strobe (customer provide trigger info)  
**LL** - Long Focal Lens

\* Intensity will be lower for NON-Fan option

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