

# MetaBright™ Linear Front Light

Model#: MB-LFL805



- Shock and Vibration proof up to 10 G's per MIL-STD-910F the highest industry standards
- Solid one-piece machined aluminum housings and thermal potting
- Performance extends to rugged environments
- Can be configured for wavelength and other specifications
- Equipt with pairing and axial rotation capabilities

| Part #           | Color          | Power Supply                                 | Specifications:       |               |
|------------------|----------------|----------------------------------------------|-----------------------|---------------|
| MB-LFL805-W-24   | White 5500K    | 24 volt power supply available upon request. | Current Consumption   | 2.56A @ 24VDC |
| MB-LFL805-R-24   | Red 630nm      |                                              | Housing               | Aluminum      |
| MB-LFL805-B-24   | Blue 455nm     |                                              | Finish                | Anodized      |
| MB-LFL805-G-24   | Green 530nm    |                                              | Intensity Uniformity  | +/-5%         |
| MB-LFL805-IRN-24 | Infrared 850nm |                                              | Illuminance           | 120,000 Lux   |
| MB-LFL805-IRL-24 | Infrared 880nm |                                              | Operating Temperature | 120° F Max    |
| MB-LFL805-UVL-24 | UV 395nm       |                                              | Compliance            | CE/RoHS       |
| MB-LFL805-UVS-24 | UV 365nm       |                                              | Lifetime Hours        | 75,000 Hours  |

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

| Active Area                    | Dimensions                                             |
|--------------------------------|--------------------------------------------------------|
| 1 in x 35 in<br>25.4mm x 889mm | 36.80in x 1.13in x 1.25in<br>934mm x 28.58mm x 31.75mm |

### ORDERING INFORMATION:

• M B - L F L 8 0 5 -  - 2 4 -

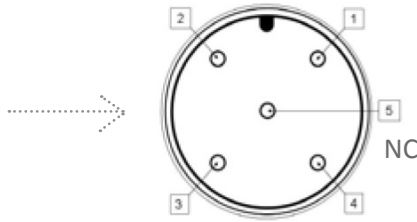
|            |                |               |                                                |
|------------|----------------|---------------|------------------------------------------------|
| <b>W</b>   | White 5500k    | <b>*BLANK</b> | 10 ft. Flying Leads                            |
| <b>R</b>   | Red 630nm      | <b>T</b>      | M12 Quick Disconnect                           |
| <b>G</b>   | Green 530nm    | <b>ILD</b>    | In Line Dimmer                                 |
| <b>B</b>   | Blue 455 nm    | <b>ILS</b>    | In Line Strobe (customer provide trigger info) |
| <b>IRL</b> | Infrared 880nm |               |                                                |
| <b>UVL</b> | (long) 395nm   |               |                                                |
| <b>UVS</b> | (short) 365nm  |               |                                                |

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### Wiring Diagram

#### M12 Connector

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



| Flying Leads | Function |
|--------------|----------|
| RED          | +24VDC   |
| BLACK        | Ground   |
| WHITE        | +24VDC   |
| GREEN        | Ground   |

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

### Drawing/Diagram

ELECTRICAL CABLE  
(4) CONDUCTOR, 22 AWG  
10 FT LONG WITH FLYING LEADWIRE ENDS

ILLUMINATION AREA

| REVISIONS |      |                         |           |          |
|-----------|------|-------------------------|-----------|----------|
| ZONE      | REV. | DESCRIPTION             | DATE      | APPROVED |
|           | A    | REVISED AND REDRAWN, KW | 8/29/2011 |          |

#8-32 UNC x 5/16 DP.  
(2) PLACES  
BOTH SIDES  
(4) HOLES TOTAL.

**Pyramid Imaging**  
945 East 11th Avenue Tampa, FL 33605  
sales@pyramidimaging.com  
www.pyramidimaging.com  
813-786-3785

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|                             |                      |         |                              |
|-----------------------------|----------------------|---------|------------------------------|
| UNLESS OTHERWISE SPECIFIED: | NAME                 | DATE    | METAPHASE TECHNOLOGIES, INC. |
| DRAWN                       | KW                   | 8-29-11 | TITLE:                       |
| CHECKED                     |                      |         | FRONT LIGHT, LINEAR, 1 X 35  |
| ENG APPR.                   |                      |         | SIZE DWG. NO.                |
| MFG APPR.                   |                      |         | <b>B</b> LFL801              |
| G.A.                        |                      |         | REV                          |
| COMMENTS:                   |                      |         | <b>A</b>                     |
| FINISH                      |                      |         | SCALE: 1:2                   |
| APPLICATION                 | DO NOT SCALE DRAWING |         | WEIGHT: SHEET 1 OF 1         |