

## MetaBright™ High Power Compact Diffused Tube Line Light

Model#: MB-CDT206



- Provides high intensity and uniform illumination for line scan cameras
- Ideal for providing even illumination for high reflective surfaces
- Ideal to minimize the effects of rough & bumpy surfaces
- Provides lighting that mimics a cloudy day where shadows minimized
- Similar to Metaphase Diffused tube light but with a narrow camera aperture designed for line scan cameras
- Available in sizes from 2 to 80 and various LED colors (wavelengths)
- Rugged housing with T-Nuts for ease of mounting

### Specifications:

|                       |                     |
|-----------------------|---------------------|
| Current Consumption   | 0.5A @24V           |
| Housing               | Aluminum            |
| Finish                | Powder Coated Black |
| Cables                | 10 ft Flying Leads  |
| Intensity Uniformity  | +/-5%               |
| Operating Temperature | 120° F Max          |
| Illuminance           | 80,000 Lux          |
| Compliance            | CE/RoHS             |
| Lifetime Hours        | 75,000 Hours        |

### Dimensions

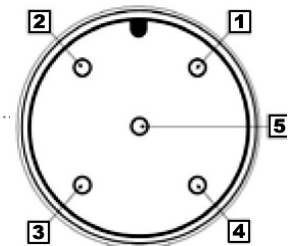
5in x 5.73in x 5.60in  
127mm x 145mm x 142mm

### Wiring Diagram

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

### M12 Connector

| PIN # | Function |
|-------|----------|
| 1     | +24VDC   |
| 3     | Ground   |



### ORDERING INFORMATION:

|             |                |                          |   |    |   |                          |  |
|-------------|----------------|--------------------------|---|----|---|--------------------------|--|
| • MB-CDT206 | -              | <input type="checkbox"/> | - | 24 | - | <input type="checkbox"/> |  |
| <b>W</b>    |                |                          |   |    |   |                          |  |
| <b>R</b>    | White 6000k    |                          |   |    |   | <b>*BLANK</b>            | 10 ft. Flying Leads                            |
| <b>G</b>    | Red 630nm      |                          |   |    |   | <b>T</b>                 | M12 Quick Disconnect                           |
| <b>B</b>    | Green 530nm    |                          |   |    |   | <b>ILD</b>               | In Line Dimmer                                 |
| <b>IRN</b>  | Blue 470 nm    |                          |   |    |   | <b>ILS</b>               | In Line Strobe (customer provide trigger info) |
| <b>UVL</b>  | Infrared 850nm |                          |   |    |   |                          |  |
| <b>UVS</b>  | (long) 395nm   |                          |   |    |   |                          |  |
|             | (short) 365nm  |                          |   |    |   |                          |  |

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| Part #           | Color          | Power Supply                                 |
|------------------|----------------|--|
| MB-CDT206-W-24   | White 6000k    | 24 volt power supply available upon request. |
| MB-CDT206-R-24   | Red 630nm      |  |
| MB-CDT206-B-24   | Blue 470nm     |  |
| MB-CDT206-G-24   | Green 530nm    |  |
| MB-CDT206-IRN-24 | Infrared 850nm |  |
| MB-CDT206-IRL-24 | Infrared 880nm |  |
| MB-CDT206-UVL-24 | UV 395nm       |  |
| MB-CDT206-UVS-24 | UV 365nm       |  |

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

### Drawing/Diagram

**REVISIONS**

| REV. | DESCRIPTION   | DATE     | APPROVED |
|------|---|----------|----------|
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| B    | ADDED 2" TO REV. #W                                   | 07/20/11 |          |
| C    | ADDED TO TABLE TO REF # WAVELENGTH RANGE              | 10/24/11 |          |
| D    | ADDED CDT106 TO REV # W                               | 10/24/11 |          |
| E    | ADDED TO DRAWING TO COMPLETE AND GROWING TO 100% SIZE | 11/09/12 |          |
| F    | REORDERED COLUMN REV                                  | 11/16/13 |          |

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| MB-CDT306             | 10" [254]      | 10.60 [269]    | 10.73 [273]    |
| MB-CDT12X.75-W-24-LV1 | 12.00" [304.8] | 12.75" [323.9] | 12.88" [327.2] |
| MP-CDT14X.75-W-24     | 14" [356]      | 14.60" [371]   | 14.73" [374]   |
| MB-CDT406             | 15" [381]      | 15.60" [396]   | 15.73" [400]   |
| MB-CDT16X.75-W-24     | 16" [406]      | 16.60" [422]   | 16.73" [425]   |
| MB-CDT506             | 20" [508]      | 20.60" [523]   | 20.73" [526.5] |
| MB-CDT606             | 25" [635]      | 25.60 [650]    | 25.73 [653]    |
| CDT706                | 30" [762]      | 30.60 [777.2]  | 30.73 [780.5]  |
| MB-CDT806             | 35" [889]      | 35.60 [904]    | 35.73 [908]    |
| MB-CDT906             | 40" [1016]     | 40.60 [1031]   | 40.73 [1035]   |
| MB-CDT1006            | 45" [1143]     | 45.60 [1158]   | 45.73 [1162]   |
| MB-CDT1106            | 50" [1270]     | 50.60 [1285]   | 50.73 [1289]   |
| MB-CDT1206            | 55" [1397]     | 55.60 [1412]   | 55.73 [1416]   |
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| MB-CDT1606            | 75" [1905]     | 75.60 [1920]   | 75.73 [1924]   |
| MB-CDT1706            | 80" [2032]     | 70.60 [2047]   | 80.73 [2051]   |

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- EXTERIOR FINISH: POWER COAT, BLACK. DOME: WHITE.

**SECTION A-A SCALE 1:1**

**TARGET APERTURE**

**SCALE 1:1**

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| D    | ADDED CDT106 TO REV # W                               | 10/24/11 |          |
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**SECTION A-A SCALE 1:1**

**TARGET APERTURE**

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