MetaBright™ Oblique Line Light

PRODUCT DATA SHEET



MB-OLL

The Metaphase Oblique Line Light is designed with unique angled LEDs to project light at a 20-degree angle. The angled light makes the OLL great for creating a dark field/off-axis effect for line scan and area scan applications or for wrinkle detection. Using high output LED technology, the Oblique Line Light produces high intensity lighting needed for high-speed imaging.



FEATURES

- 20° angled LED and illumination
- Works for line and area scan applications
- Active cooling for high intensity
- Short side plates and clear end cap for greater efficiency and more usable light
- Built-in constant current driver with 0-10V Intensity
 Control
- Narrow housing profile for greater mounting flexibility

WAVELENGTHS								
Order ID	Description / nanometers							
W	White (6000K), Nominal							
R	Red / 630nm							
G	Green / 530nm							
В	Blue / 470nm							
IR850	Infrared / 850nm							
IR880	Infrared / 880nm							
IR940	Infrared / 940nm							
UV365	Ultraviolet Short / 365nm							
UV395	Ultraviolet Long / 395nm							

APPLICATIONS

- For line scan and narrow FOV area scan applications
- Wrinkle detection
- Dark field
- Cross machine detection
- Fabric Inspection

GENERAL SPECIFICATIONS

Power Source:	24VDC ±
Cable (Standard):	10-foot
Housing:	Black Ar
Ambient Temp:	-20°C to
Lifetime Expectancy:	75,000 ł

24VDC ±5% 10-foot cable with flying leads Black Anodized Aluminum -20°C to 40°C 75,000 hours (except UV)





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Oblique Line Light												
				Cable			Typical Current (Amps) @24VDC					
MODEL*	Overall Length Lens Length Inches / cm Inches / cm		Weight ±10% Ibs/Kg	Quantity	Length	AWG/ Conductors	Visable (White, Red, Green, Blue)	IR	UVS	UVL		
MB-OLL306	10.94 / 27.80	10.86 / 27.59	4.0/1.8				1.5 amps	2.0A max	2.6A max	2.4A max		
				1	10ft	18/4						
					1011	10/4						

*Contact Metaphase for other sizes and cutomizations.

Wiring (4 conductors, flying leads)**							
Wire Color	Function						
RED	+24VDC						
WHITE	0-10VDC INTENSITY CONTROL						
BLACK	GROUND (24V RTN)						
GREEN	SIGNAL GROUND						

M12 (5 position male)**								
Pin # Function								
1 +24VDC								
2 0-10VDC Intensity Control								
3	3 GROUND (24V RTN)							
4 SIGNAL GROUND								
5 No Connection								
The M12 connector option is not recommended for lights rated more than 4 amps								

ULC-2 Wiring										
Wire Color Function RED, WHITE (+) LED INPUT										
										BLACK, GREEN (-)
Terminated within a 2 position ULC-2 output connector (Phoenix Contact P/N: BCP-508-2)										

**Note: The 0-10VDC Intensity Control input can accept voltages from 0-24VDC where the light will operate at full intensity in the 10-24VDC range. The light is proportionally dimmer for any Intensity Control voltage less than 10VDC and the light is OFF at approximately 0V or not connected (floating).



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PART NUMBER KEY											
MODEL	LENGTH ID (inches)	-	WAVELENGTH	-	DRIVER* (most common)	-	LED ANGLE	-	CABLE LENGTH	-	CONN.** (most Common)
MB-OLL	ххх	-	ххххх	-	xxx-xxxxxx	-	ххх	-	ххх	-	хххх
MB-OLL	306 to 2707		W (White 6000K, Nominal) R (Red 630nm) G (Green 530nm) B (Blue 470nm) IR850 (Infrared 850nm) IR940 (Infrared 940nm) UV365 (UV Short 365nm) UV395 (UV Long 395nm)		24Z 24NZ 24-ILD U ¹		A10 (10°) Select or leave blank for 20°		5M 10M Length can be customized: ex.7M=7meters Select or leave blank for 3 meters		M12D ^{1 2} BC ^{1 3} Select or leave blank for flying leads
Example 1: MB-OLL306-W-24Z					2	¹ Not available in lights exceeding 4A input current					
	Example 2: MB-OLL306-G-24Z-A10 ² Default cable length for an M12D connector is 19 incl ³ Default cable length for a Barrel Connector is 10 f							ector is 10 feet			

Contact Metaphase Technologies or your local representative for options such as custom diffusers, lenses, polarizers, IP-rated enclosures for harsh environments, higher intensity, custom wavelengths, higher uniformity, etc. Not all options are available for all lights.

*(Link to Driver Options Key) **(Link to Connector Key)

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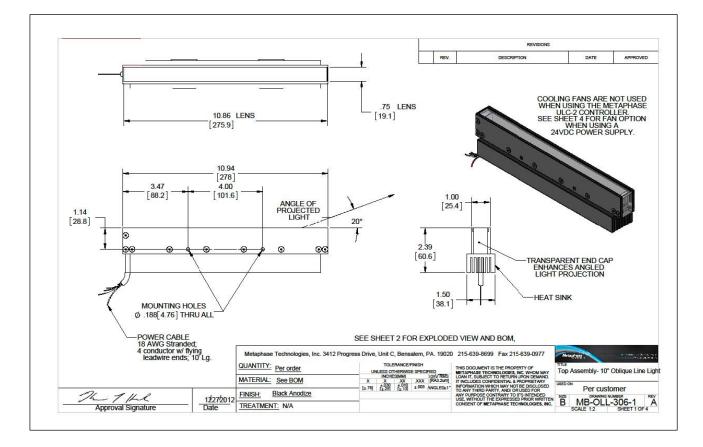
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Sample Model Number: MB-OLL306-W-24Z











CONTACT US

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