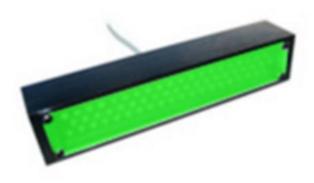


MB-LFL

Metaphase Linear Front Lights feature high density LED array placement and proprietary Metaphase thermal management technology to assure maximum LED lifetime and lowest cost of ownership. Our Front Lights are designed for longer working distances and feature rugged housings such as those found in industrial robotics work envelopes. Our Linear Front Lights are available in MetaLight (LFL) and high power MetaBright™ (MB-LFL) versions.



FFATURES

- Homogenous light output that provides high intensity illumination
- Shock and vibration resistant
- LED thermal management for stable performance
- Industry proven for virtually any lighting application
- Flicker free performance and instant start up with Metaphase analog driver technology
- Economical, low cost
- An ideal light for many applications
- Available in MetaLight (LFL) without intensity control and in high power MetaBright™ (MB-LFL) versions
- MetaBright™ (MB-LFL) versions have a built-in Constant Current Driver with 0 10VDC intensity control, compatible with DDC-3 and ILD-35 Dimmers

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

GENERAL SPECIFICATIONS

Power Source: 24VDC ±5%

Cable (Standard): 10-foot cable with flying leads Housing: Black Anodized Aluminum

Ambient Temp: -20°C to 40°C

Lifetime Expectancy: 75,000 hours (except UV)

945 East 11th Avenue Tampa, FL 33605
Phone: (813) 984-0125
Contact: Sales@ pyramidimaging.com
https://pyramidimaging.com

PRODUCT DATA SHEET



MB-LFL

MetaBright™ Linear Front Lights									
MODEL	Dimensions W x L x H Inches (cm)	Active Area W x L Inches (cm)	Weight Ibs (grams)	Cable QTY	Cable Length	Cable AWG/ Conductors	Max Input Current @24VDC		
MB-LFL1x4	.87 x 4.33 x .98 (2.21 x 11.0 x 2.49)	.63 x 4.11 (1.6 x 10.44)	.32 (145)				.20A		
MB-LFL1x6	.87 x 6.63 x .98 (2.21 x 16.3 x 2.49)	.67 x 6.43 (1.70 x 16.32)	.42 (191)				.24A		
MB-LFL205	1.25 x 6.05 x 1.13 (3.18 x 15.4 x 2.86)	1.0 x 5.65 (2.54 x 14.35)	.56 (253)				.30A		
MB-LFL305	1.25 x 11.3 x 1.13 (3.18 x 28.7 x 2.86)	1.18 x 11.0 (2.98 x 27.9)	1.0 (467)	1	10ft	24/4	.45A		
MB-LFL405	1.25 x 16.3 x 1.13 (3.18 x 41.4 x 2.86)	1.18 x 16.0 (2.98 x 40.6)	1.2 (561)				.62A		
MB-LFL505	1.25 x 21.0 x 1.13 (3.18 x 53.5 x 2.86)	1.16 x 20.65 (2.95 x 52.4)	1.4 (626)				.75A		
MB-LFL605	1.25 x 26.32 x 1.13 (3.18 x 66.8 x 2.86)	1.18 x 26.0 (2.98 x 66.0)	1.6 (740)				.86A		
	Inq	uire about larger si	zes listed bel	ow					
MB-LFL705									
MB-LFL805									
MB-LFL905									
MB-LFL1005									
MB-LFL1105									
MB-LFL1205				1					
MB-LFL1305				1					
MB-LFL1405									



MB-LFL

Wiring (4 conductor with Intensity Control)**						
Wire Color	Function					
RED	+24VDC					
WHITE	0-10VDC INTENSITY CONTROL					
BLACK	GROUND (24V RTN)					
GREEN	SIGNAL GROUND					

Wiring (4 conductor without Intensity Control)						
Wire Color	Function					
RED	+24VDC					
WHITE	+24VDC					
BLACK	GROUND (24V RTN)					
GREEN	GROUND (24V RTN)					

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

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

Wiring with ULC-2

The M12 connector option is not recommended for lights rated more than 4 amps

^{**}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).

PRODUCT DATA SHEET



MB-LFL

PART NUMBER KEY											
MODEL	SIZE	-	WAVELENGTH	-	DRIVER* (most common)	1	DIFFUSER	-	CABLE LENGTH	1	CONN.** (most Common)
MB-LFL	XXX	-	xxxxx	-	xxxxx	-	XX	-	XXX	-	XXXX
MB-LFL	1x4 1x6 205 305 405 505 605 705 805 905 1005 1105 1205 1305 1405		W (White 6000K, Nominal) R (Red 630nm) G (Green 530nm) B (Blue 470nm) IR850 (Infrared 850nm) UV365 (UV Short 365nm) UV395 (UV Long 395nm) RGB		24Z 24-ILZ 24-ILD U ¹		CC (Clear Cover) D2 (Single Matte) D3 (TIR/SLK) D4 (Milky White) D5 (Double Matte)		5M 10M Length can be customized: ex.7M=7meters		M12D ^{1 2} BC ^{1 3} Select or leave blank for flying
	1. NAD 1511-C C 3						Select one		for 3 meters		leads

Example 1: MB-LFL1x6-G-24Z-D2

¹Not available in lights exceeding 4A input current ²Default cable length for an M12D connector is 19 inches

Example 2: MB-LFL1005-UV395-24-ILD-CC

³Default cable length for a Barrel Connector 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.

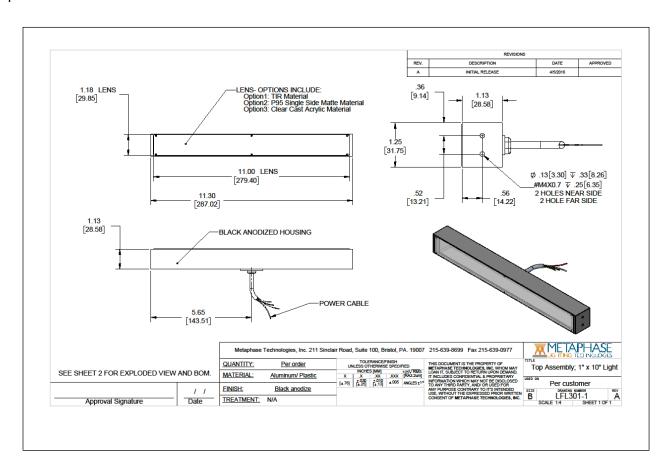
^{*(}Link to Driver Options Key)

^{**(}Link to Connector Key)



MB-LFL

Sample Part Number: MB-LFL301-W-24Z-D3





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COMPLIANCE



CONTACT US

Contact Metaphase Technologies at **215-639-8699** or your local representative for additional details, options and customizations.