

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.



- 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	GENERA	GENERAL SPECIFICATIONS					
Order ID	Description / nanometers							
W	White (6000K), Nominal	Power Source:	24VDC ±5%					
R	Red / 630nm	Cable (Standard):	10-foot cable with flying leads					
G	Green / 530nm	Housing:	Black Anodized Aluminum					
В	Blue / 470nm	Ambient Temp:	-20°C to 40°C					
IR850	Infrared / 850nm	Lifetime Expectancy:	75,000 hours (except UV)					
IR880	Infrared / 880nm							
UV365	Ultraviolet Short / 365nm		945 East 11th Avenue Tampa, Fl					
UV395	Ultraviolet Long / 395nm	~ \	Phone: (813) 98					

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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		
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		
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)		10ft		.24A		
LFL201	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		
LFL301	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		24/4	.45A		
LFL401	1.25 x 16.3 x 1.13						.62A		
LFL501	1.25 x 21.0 x 1.13		1.4 (626)				.75A		
LFL601	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		
Inquire about larger sizes listed below									
LFL701									
LFL801									





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 option is not recommended for lights rated								

more than 4 amps

Wiring with ULC-2								
Wire Color Function								
RED, WHITE (+)	LED INPUT							
BLACK, GREEN (-)	LED INPUT							
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 OV or not connected (floating).



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PART NUMBER KEY											
MODEL	SIZE	-	WAVELENGTH	-	DRIVER* (most common)	-	DIFFUSER	-	CABLE LENGTH	-	CONN.** (most Common)
LFL	XXX	-	xxxxx	-	XXXXX	-	XX	-	XXX	-	XXXX
LFL	1x4 1x6 201 301 401 501 601 701		W (White 6000K, Nominal) R (Red 630nm) G (Green 530nm) B (Blue 470nm) IR850 (Infrared 850nm) IR880 (Infrared 880nm) UV365 (UV Short 365nm) UV395 (UV Long 395nm)		24CV 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
							Select one		Select or leave blank for 3 meters		leave blank for flying leads

Example 1: LFL201-R-24CV-D2-M12D Example 2: LFL601-W-24-ILZ-D4

¹Not available in lights exceeding 4A input current ²Default cable length for an M12D connector is 19 inches ³Default cable length for a Barrel Connector is 10 feet

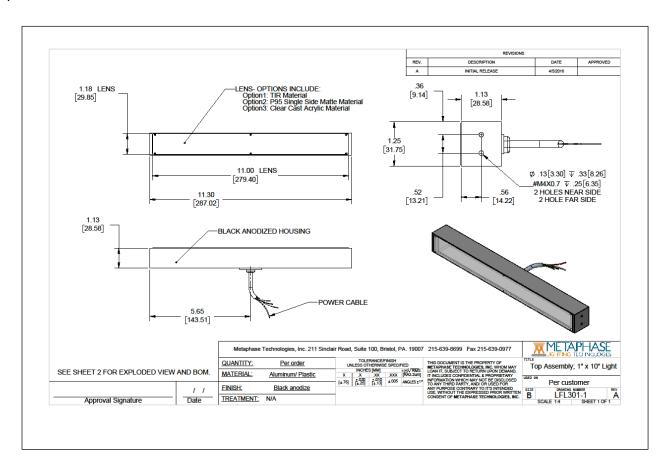
Contact Metaphase Technologies or your local representative for options such as custom diffusers, lenses, polarizers, IP-rated enclosures for harsh environments, higher intensity, custom wavelengths, higher uniformity, etc. Not all options are available for all lights.

*(Link to Driver Options Key)

**(Link to Connector Key)



Sample Model Number: LFL301-W-24CV-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.