## MetaBright™

## **Flood Lights**

# ME IAPHASE

### MB-FLD

This economical multi-watt LED front light is designed for flooding large areas and mimics the diffused output of a screw base PAR38 halogen flood light. Working distances can vary from 6 to 18 feet or more depending on the amount of light needed. This flood light is extremely bright and emits white light at 600,000 Lux. Features include a unitized alloy body thermally potted for longevity.

PRODUCT DATA SHEET



#### **FEATURES**

- High power flood light
- Rugged design
- LED thermal management for stable performance
- Strobe and dimming options available
- Flicker free performance and instant start up with Metaphase analog driver technology
- Ideal for motion/sports analysis and other large area illumination applications
- Optional Constant Current Driver with 0 10VDC intensity control, compatible with DDC-3 and ILD-35

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							
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)

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FLOOD LIGHTS										
MODEL	All models: H = 2.82 inches (7.2cm)  Overall  Width and Length Inches (cm)	Active Area Inches (cm)	Weight Ibs / kg	Cable QTY	Cable Length	Cable Description	Maximum Input Current @24VDC			
MB-FLD406	3.75 x 8.28 (9.52 x 21.0) 3.75 x 15.06 (9.52 x 38.25)	2.88 x 6.78 (7.30 x 17.2) 2.88 x 13.56 (7.30 x 34.44)	2.8 / 1.28	1	10ft	18 AWG 4 Conductor	1.3 amps 2.8 amps			

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

Wiring (4 conductors, 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							

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

<sup>\*\*</sup>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	SIZE	•	WAVELENGTH	1	DRIVER* (most common)	-	LENS	1	DIFFUSER	-	CABLE LENGTH	1	CONN.** (most Common)
MB-FLD	xxx	ı	xxxxx	1	XXXXX	-	XXX	1	XX	-	XXX	1	xxxx
	<b>406</b> (6.5") <b>806</b> (13.0")		W (White 6000K, Nominal) R (Red 630nm) G (Green 530nm) B (Blue 470nm) IR850 (Infrared 850nm) IR880 (Infrared 880nm) IR940 (Infrared 940nm) UV365 (UV Short 365nm) UV395 (UV Long 395nm) RGB		24Z 24Z-TRG 24-ILD U <sup>1</sup>		L11 (11°)  Select or leave blank for 30° lens		CC (Clear Cover) D2 (Single Matte) D3 (TIR/SLK) D4 (Milky White) D5 (Double Matte)		Length can be customized: ex.7M=7meters  Select or leave blank		M12D <sup>1 2</sup> BC <sup>1 3</sup> Select or leave blank for flying

Example 1: MB-FLD406-W-24Z-CC Example 2: MB-FLD806-W-24-ILD-CC-5M

<sup>1</sup>Not available in lights exceeding 4A input current <sup>2</sup>Default cable length for an M12D connector is 19 inches <sup>3</sup>Default 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)

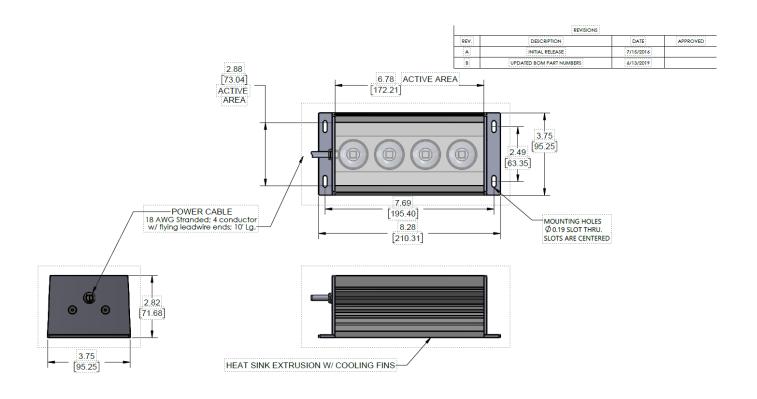
\*\*(Link to Connector Key)

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## MB-FLD

Sample Model Number: MB-FLD406-W-24Z



#### **COMPLIANCE**





#### **CONTACT US**

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