MetaBright™ Area Backlight
Model#: MB-BL12X12

Metaphase
Technologies, Inc.

- Up to 50 SMD LED's per inch array makes our backlights the brightest most stable backlights in the industry
- Exclusive optical lens producing even (+/- 5%), shadow-free illumination
- High Density Precision Chip technology
- Patent-pending thermal management design draws heat directly from the die ensuring long life
- Stable, flicker-free illumination with instant-start operation

Wiring Diagram	
Flying Leads	Function
RED	+24VDC
BLACK	Ground
WHITE	0~10V
GREEN	Signal Ground

M12 Connector	
PIN #	Function
1	+24VDC
3	Ground

NC

Specifications:	
Current Consumption	3.5 ~ 5 Amp @ 24Vdc
Housing	Aluminum
Finish	Powder Coated Black
Intensity Uniformity	+/-5%
Illuminance	38,000 Lux
Operating Temperature	120° F Max
Compliance	CE/RoHS
Lifetime Hours	75,000 Hours

Active Area	Dimensions
12in x 12in	15in x 14.25in x 0.87in
304.8mm x 304.8mm	381mm x 361.95mm x 22mm

ORDERING INFORMATION:

• M B - B L 1 2 X 1 2   -   ☐   - 2 4 -   ☐

W	White 6000k	*****BLANK**	10 ft. Flying Leads
R	Red 630nm	**T**	M12 Quick Disconnect
G	Green 530nm	**ILD**	In Line Dimmer
B	Blue 455 nm	**ILS**	In Line Strobe (customer provide trigger info)
IR	Infrared 880nm		
UVL	(long) 395nm		
UVS	(short) 365nm		

Contact us:

Contact your Metaphase Technologies Representative for options including: Diffuser Choice, Polarizer & Light Control Film, Specific Intensity & Uniformity, & Wavelength.

Drawing/Diagram

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	REDRAWN IN SOLISWORKS, KW	10/27/2011	

.81 [20.6]
13.38 [339.7]
4.00 [101.6]

ELECTRICAL CABLE
(4) CONDUCTOR, 22 AWG
10 FT. LONG
WITH FLYING LEADWIRE ENDS

15.00 [381]
.25 [6.4]
14.50 [368.3]
1.50 [38.1]
4.44 [112.7]
12.00 [304.8]
6.00 [152.4]
14.25 [362]
Ø.19 THRU [4.8] (4) PLACES
.69 [17.5]
12.00 [304.8]
.87 [22.2]
.13 [3.2]

UNLESS OTHERWISE SPECIFIED:			NAME	DATE	METAPHASE TECHNOLOGIES, INC.		
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±		DRAWN	KW	10/27/201	TITLE:		
		CHECKED					
		ENG APPR.			BACKLIGHT, 12 X 12 INCH		
		MFG APPR.					
INTERPRET GEOMETRIC TOLERANCING PER:		Q.A.					
MATERIAL		COMMENTS:					
FINISH					SIZE **C**	DWG. NO. BL12X12	REV **A**
NEXT ASSY	USED ON				SCALE: 1:5	WEIGHT:	SHEET 1 OF 1
APPLICATION		DO NOT SCALE DRAWING					