MetaBright™ Area Backlight
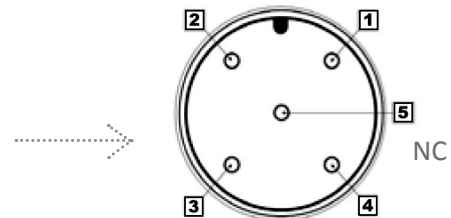## Model#: MB-BL6X4

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

Active Area	Dimensions
6in x 4in	8.65 in x 5.41 in x 0.79in
152.4mm x 101.6mm	219.71mm x 137.41 x 20.06mm

Specifications:

Current Consumption	0.5 ~ 1.2 Amp @ 24Vdc
Housing	Aluminum
Finish	Powder Coated Black
Intensity Uniformity	+/-5%
Operating Temperature	120° F Max
Illuminance	44,000 Lux
Compliance	CE/RoHS
Lifetime Hours	75,000 Hours

Wiring Diagram

Flying Leads	Function
RED	+24VDC
BLACK	Ground

M12 Connector

PIN #	Function
1	+24VDC
3	Ground

NC

ORDERING INFORMATION:

• M B - B L 6 X 4 - ☐ - 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		

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Wavelength (nanometers)	
White (°K)	5500-6500°K
Blue	464-485
Green	520-535
Red	620-630
IRN	880
UVL	395
UVS	365

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 SOLIDWORKS, KW	9/22/2011	

1.00 [25.30]
1.00 [25.38]
1.00 [25.48]
.45 [11.43]

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

#8-32 UNC X .3 DP.
(5) PLACES

.45 [11.43]
1.00 [25.40]
1.00 [25.40]
1.75 [44.37]

.70 [17.78]
5.41 [137.41]
4.00 [101.60]

LIGHTED AREA

6.00 [152.40]
.95 [24.13]
8.65 [219.71]

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±
ANGULAR: MACH ± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC
TOLERANCING PER:
MATERIAL
FINISH

	NAME	DATE
DRAWN	KW	9/22/2011
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

METAPHASE TECHNOLOGIES, INC.

TITLE:

BACKLIGHT, 6 X 4

SIZE	DWG. NO.	REV
B	BL6X4	A

SCALE: 1:2 WEIGHT: SHEET 1 OF 1

NEXT ASSY USED ON
APPLICATION DO NOT SCALE DRAWING