MetaBright™ Linear Backlight
Model#: MB-LBL311

Metaphase
Technologies, Inc.

· Configurable for various wavelengths
· Stable, flicker-free illumination with instant-start operation
· 35 SMT array LED providing maximum intensity area with +/- 0.5% uniformity
· High Density Precision Chips Tehcnology (HDPCT)
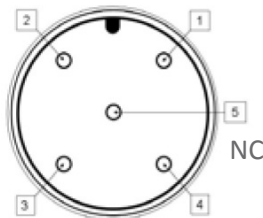· Patent-pending thermal management design draws heat directly from the die ensuring long life

Wiring Diagram

Flying Leads	Function
RED	+24VDC
BLACK	Ground

10 ft. flying leads come standard on all products. Light features built-in constant driver with no expensive power supply required

Part #	Color
MB-LBL311-W-24	White 5500 K
MB-LBL311-R-24	Red 630nm
MB-LBL311-B-24	Blue 455nm
MB-LBL311-G-24	Green 530nm
MB-LBL311-IRN-24	Infrared 850nm
MB-LBL311-IRL-24	Infrared 880nm
MB-LBL311-UVL-24	UV 395nm
MB-LBL311-UVS-24	UV 365nm

M12 Connector

PIN #	Function
1	+24VDC
2	0-10VDC Intensity Control
3	Ground
4	Signal Ground

NC

Specifications:

Current Consumption	RED: 0.6A W/G/B: 1A
Housing	Aluminum
Casing	Stainless Steel
Finish	Powder Coated Black
Intensity Uniformity	+/-5%
Operating Temperature	120° F Max
Illuminance	36,000 Lux
Compliance	CE/RoHS
Lifetime Hours	80,000 Hours

Active Area	Dimensions
1.2 in x 13 in 30.48mm x 330.2mm	2.50 in x 14.25 in x 0.69 in 63.5mm x 361.9mm x 17mm

ORDERING INFORMATION:

• M B - L B L 3 1 1 - ☐ - 2 4 - ☐

W	White 5500k
R	Red 630nm
G	Green 530nm
B	Blue 455 nm
IRL	Infrared 880nm
UVL	(long) 395nm
UVS	(short) 365nm

*BLANK	10 ft. Flying Leads
T	M12 Quick Disconnect
ILD	In Line Dimmer
ILS	In Line Strobe (customer provide trigger info)

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Drawing/Diagram

REVISIONS

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	DRAWING # WAS LBL2.5X13, KW	12/22/2010	
	B	#10-32 TAP WAS 1/2 DP., KW	3/2/2011	
	C	MB-LBL301 WAS MB-LBL311, KW	3/7/2011	
	D	MB-LBL311 WAS MB-LBL301 ADDED VOLTAGE TO NOTE #1, KW	7/12/2011	

14.25 [361.95]

.50 [12.70]

2.50 [63.50]

1.20 [30.48]

.60 [15.32]

13.00 [330.20]

STRAIN RELIEF SEE NOTE #2.

.69 [17.40]

.41 [10.52]

.25 [6.35]

.59 [15.06]

FLYING LEADWIRES 10 FT.

10.25 [260.35]

.41 [10.34]

2.00 [50.80]

2.00 [50.80]

®

#10-32 UNF X 1/4 DP (6) PLACES
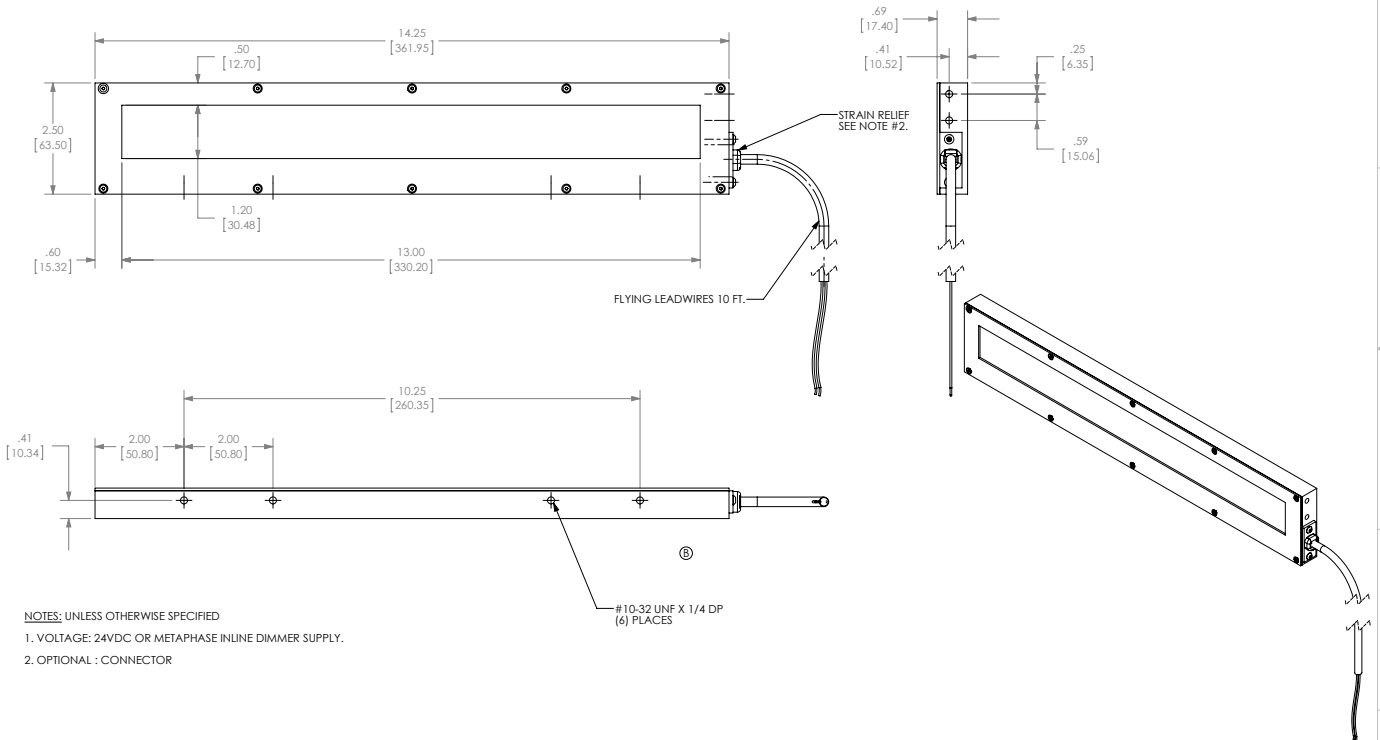
NOTES: UNLESS OTHERWISE SPECIFIED
1. VOLTAGE: 24VDC OR METAPHASE INLINE DIMMER SUPPLY.
2. OPTIONAL : CONNECTOR

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	12-21-10	TITLE:
	CHECKED			
	ENG APPR.			BACK LIGHT, LINEAR
	MFG APPR.			1.2 X 13"
INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			
MATERIAL	PART NO.			
FINISH				SIZE **C**	DWG. NO. MB-LBL311	REV **D**

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NEXT ASSY | USED ON
APPLICATION | DO NOT SCALE DRAWING

MB-LBL311

SCALE: 1:2 | WEIGHT: | SHEET 1 OF 1