

# MetaBright™ Linear Backlight

Model#: MB-LBL311



- 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

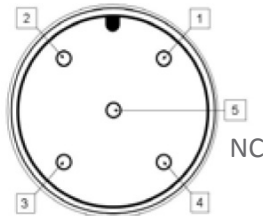
## Wiring Diagram

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

## M12 Connector

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



## 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

## 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

## Active Area

1.2 in x 13 in  
30.48mm x 330.2mm

## Dimensions

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 -



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

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

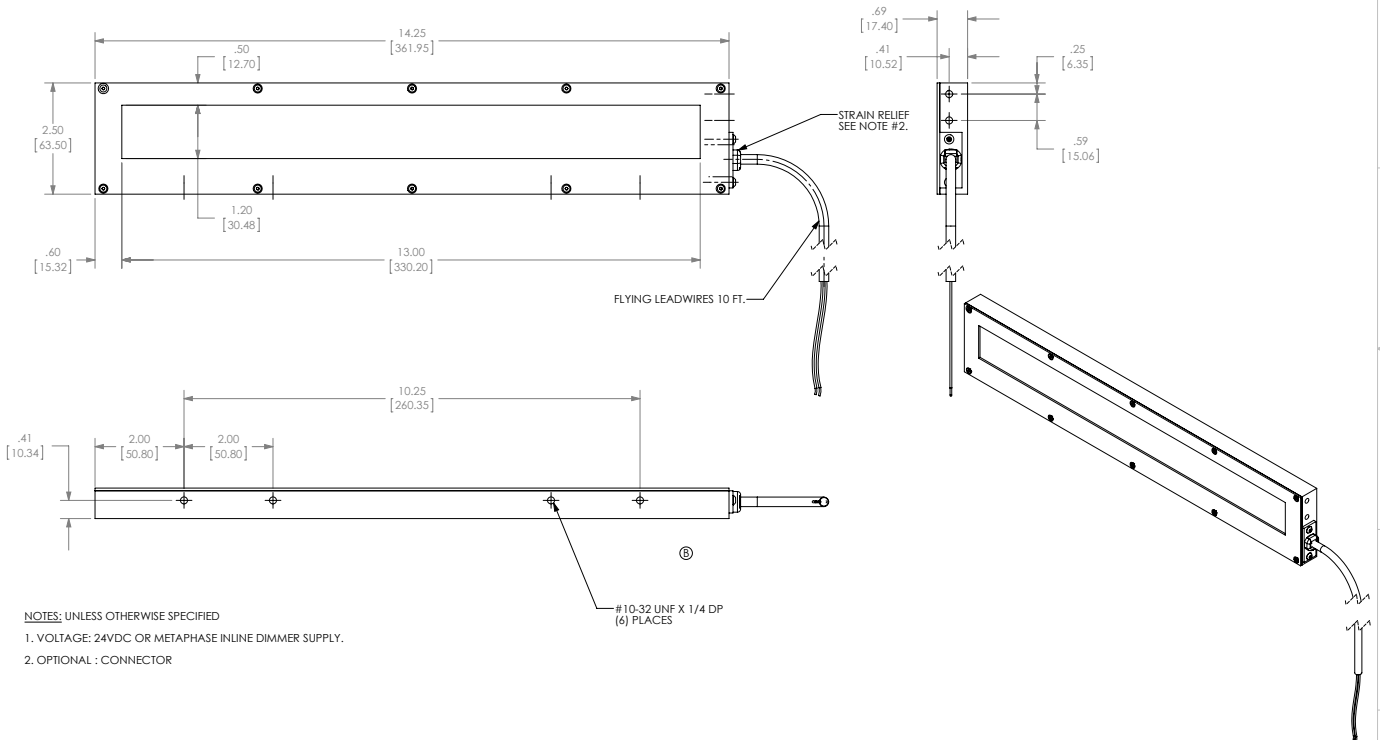


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## Drawing/Diagram

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	DRAWING # WAS LBL2.SK13.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	



- NOTES: UNLESS OTHERWISE SPECIFIED**
- VOLTAGE: 24VDC OR METAPHASE IN LINE DIMMER SUPPLY.
  - OPTIONAL : CONNECTOR

#10-32 UNF X 1/4 DP (6) PLACES

**PROPRIETARY AND CONFIDENTIAL**  
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UNLESS OTHERWISE SPECIFIED:		NAME	DATE	METAPHASE TECHNOLOGIES, INC.	
DIMENSIONS ARE IN INCHES	DRAWN	EW	12-21-10	TITLE:	
TOLERANCES	CHECKED			BACK LIGHT, LINEAR	
FRACTIONS & ANGULAR VALUES	ENG APPR.			1.2 X 13"	
THREE PLACE DECIMAL & THREE PLACE DECIMAL	INFO APPR.			SIZE DWG. NO.	
INTERPRET GEOMETRIC TOLERANCING PER:	D.G.			C MB-LBL311 D	
ASME Y14.5M	PART NO.	MB-LBL311		SCALE: 1:2 WEIGHT:	
NEXT ASBY	USED CH	DO NOT SCALE DRAWING		SHEET 1 OF 1	
APPLICATION					