

# MetaBright™ Round Area Front Lig

Model#: MB-RAL050



- THE LOWEST COST SIMPLEST LED LIGHTING AVAILABLE FOR STANDARD INTENSITY FRONT LIGHTING
- AVAILABLE IN 3 DIFFERENT DIAMETERS TO SERVE VIRTUALLY ANY WORK SPACE PROVEN DESIGN WITH THOUSANDS OF INSTALLATIONS AROUND THE WORLD
- SOLID ONE-PIECE MACHINED ALUMINUM HOUSINGS AND THERMAL POTTING ASSURES LONG LIFE PERFORMANCE EVEN IN RUGGED ENVIRONMENTS
- SHOCK AND VIBRATION RESISTANT
- SOLUTION FOR ON AND OFF-AXIS VISION

Part #	Color	Power Supply	Specifications:	
MB-RAL050-W-24	White 6000 K	24 volt power supply available upon request.	Current Consumption	0.15A
MB-RAL050-R-24	Red 630nm		Finish	Anodized
MB-RAL050-B-24	Blue 455nm		Intensity Uniformity	+/-5%
MB-RAL050-G-24	Green 530nm		Operating Temperature	120° F Max
MB-RAL050-IRN-24	Infrared 850nm		Illuminance	110,000 Lux
MB-RAL050-IRL-24	Infrared 880nm		Compliance	CE/RoHS
MB-RAL050-UVL-24	UV 395nm		Lifetime Hours	75,000 Hours
MB-RAL050-UVS-24	UV 365nm			

10 ft. flying leads come standard on all products.  
Light features built-in constant current driver.  
No expensive controller required.

Active Area	Dimensions
17.53mm I.D. .69in I.D.	22.86 mm x 38.10mm 0.9in x 1.5in

## ORDERING INFORMATION:

• M B - R A L 0 5 0 -  - 2 4 -

<b>W</b>	White 5500k	<b>*BLANK</b>	10 ft. Flying Leads
<b>R</b>	Red 630nm		
<b>G</b>	Green 530nm	<b>T</b>	M12 Quick Disconnect
<b>B</b>	Blue 455 nm		
<b>IRL</b>	Infrared 880nm	<b>ILD</b>	In Line Dimmer
<b>UVL</b>	(long) 395nm		
<b>UVS</b>	(short) 365nm		
		<b>ILS</b>	In Line Strobe (customer provide trigger info)

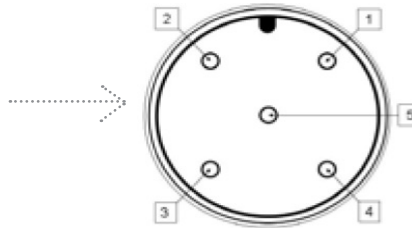


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## M12 Connector

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



## Wiring Diagram

Flying Leads	Function
RED	+24VDC
BLACK	Ground
WHITE	0~10V or +24VDC
GREEN	Ground

24 AWG 4 WIRES CABLE X 1  
When not using intensity control, connect 0-10V control line to +24 (Max Intensity Control = 25V) and intensity control ground to ground

## Drawing/Diagram

REVISIONS			
ZONE	REV.	DESCRIPTION	DATE
	A	REVISED AND REDRAWN, KW	7/22/2011

ACTUAL SIZE

$\phi .90$  [22.86]      $\phi .69$  [17.53]

1.50 [38.10]

4 CONDUCTOR ELECTRICAL CABLE  
24 AWG, 10 FT LG WITH FLYING LEADWIRE ENDS

<p><b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF VISION LIGHT TECH. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF VISION LIGHT TECH IS PROHIBITED.</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">UNLESS OTHERWISE SPECIFIED:</td> <td>NAME</td> <td>DATE</td> </tr> <tr> <td colspan="2">DIMENSIONS ARE IN INCHES</td> <td>KW</td> <td>7-22-11</td> </tr> <tr> <td colspan="2">TOLERANCES:</td> <td></td> <td></td> </tr> <tr> <td>FRACTIONAL</td> <td>±</td> <td></td> <td></td> </tr> <tr> <td>ANGULAR: MACH</td> <td>BEND</td> <td></td> <td></td> </tr> <tr> <td>TWO PLACE DECIMAL</td> <td>±</td> <td></td> <td></td> </tr> <tr> <td>THREE PLACE DECIMAL</td> <td>±</td> <td></td> <td></td> </tr> <tr> <td colspan="2">INTERPRET GEOMETRIC TOLERANCING PER:</td> <td colspan="2">G.A.</td> </tr> <tr> <td colspan="2">MATERIAL</td> <td colspan="2">COMMENTS:</td> </tr> <tr> <td colspan="2">FINISH</td> <td colspan="2"></td> </tr> <tr> <td>NEXT ASSY</td> <td>USED ON</td> <td colspan="2"></td> </tr> <tr> <td>APPLICATION</td> <td>DO NOT SCALE DRAWING</td> <td colspan="2"></td> </tr> </table>	UNLESS OTHERWISE SPECIFIED:		NAME	DATE	DIMENSIONS ARE IN INCHES		KW	7-22-11	TOLERANCES:				FRACTIONAL	±			ANGULAR: MACH	BEND			TWO PLACE DECIMAL	±			THREE PLACE DECIMAL	±			INTERPRET GEOMETRIC TOLERANCING PER:		G.A.		MATERIAL		COMMENTS:		FINISH				NEXT ASSY	USED ON			APPLICATION	DO NOT SCALE DRAWING		
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METAPHASE TECHNOLOGIES, INC.			
TITLE:			
ROUND AREA FRONT LIGHT .90 INCH			
SIZE	DWG. NO.	REV	
<b>B</b>	<b>RAL050</b>	<b>A</b>	
SCALE: 2:1	WEIGHT:	SHEET 1 OF 1	