# Round Area Front Light





### RAL

Our Round Area Front Light is a proven design with thousands of installations around the world. Manufactured from a solid one-piece machined aluminum housing with thermal potting assures long life performance in rugged environments.



#### FEATURES

- Homogenous light output that provides high intensity illumination
- Shock and vibration resistant
- LED thermal management for stable performance
- Industry proven for virtually any lighting application
- Flicker-free performance and instant start up with Metaphase analog driver technology
- Economical, low cost
- An ideal light for many applications
- Optional Constant Current Driver with 0-10VDC intensity control, compatible with DDC-3 and ILD-35 Dimmers

WAVELENGTHS							
Order ID	Description / nanometers						
W	White (6000K), Nominal						
R	Red / 630nm						
G	Green / 530nm						
В	Blue / 470nm						
IR880	Infrared / 880nm						
UV365	Ultraviolet Short / 365nm						
UV395	Ultraviolet Long / 395nm						

### **GENERAL SPECIFICATIONS**

Power Source: Cable (Standard): Housing: Ambient Temp: Lifetime Expectancy: 24VDC ±5% 10-foot cable with flying leads Black Anodized Aluminum -20°C to 40°C 75,000 hours (except UV)



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MODEL	Dimensions L x OD(Ø) Inches (mm)	Lens Diameter Inches (mm)	Weight (includes cable) lbs (grams)	Cable QTY	Cable Length	Cable Description	Max Input Current @24VDC	
RAL050	1.88 x .90 (47.8 x 22.9)	.67 (17.0)	.27 (120)				100mA	
RAL101	2.10 x 1.50 (53.3 x 38.1)	1.25 (31.75)	.45 (205)		406	24 AWG	150mA	
RAL105	2.10 x 1.50 (53.3 x 38.1)	1.10 (27.94)	.43 (195)	1	10ft	4 Wire	150mA	
RAL201	1.50 x 2.13 (38.1 x 54.0)	1.77 (45.0)	.50 (227)				200mA	

Wiring (4 conductor with Intensity Control)**						
Wire Color	Function					
RED	+24VDC					
WHITE	0-10VDC INTENSITY CONTROL					
BLACK	GROUND (24V RTN)					
GREEN	SIGNAL GROUND					

Wiring (4 conductor without Intensity Control)					
Wire Color	Function				
RED	+24VDC				
WHITE	+24VDC				
BLACK	GROUND (24V RTN)				
GREEN	GROUND (24V RTN)				

M12 (5 position male)**					
Pin #	Function				
1	+24VDC				
2	0-10VDC Intensity Control				
3	GROUND (24V RTN)				
4	SIGNAL GROUND				
5	No Connection				
The M12 connector option is not recommended for lights rated more than 4 amps					

Wiring with ULC-2						
Wire Color	Function					
RED, WHITE (+)	LED INPUT					
BLACK, GREEN (-)	LED INPOT					
Terminated within a 2 position ULC-2 output connector (Phoenix Contact P/N: BCP-508-2)						

\*\*Note: The 0-10VDC Intensity Control input can accept voltages from 0-24VDC where the light will operate at full intensity in the 10-24VDC range. The light is proportionally dimmer for any Intensity Control voltage less than 10VDC and the light is OFF at approximately 0V or not connected (floating).



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PART NUMBER KEY									
MODEL	SIZE (outside diameter)	-	WAVELENGTH	-	DRIVER* (most common)	-	CABLE LENGTH	-	CONN.** (most common)
RAL	ХХХ	-	XXXXX	-	XXXXXXX	-	xxx	-	хххх
RAL	050 (.90") 101 (1.0") 105 (1.5") 201 (2.1")		W (White 6000K, Nominal) R (Red 630nm) G (Green 530nm) B (Blue 470nm) IR880 (Infrared 880nm) UV365 (UV Short 365nm) UV395 (UV Long 395nm)		24CV 24-ILSXXX 24-ILD U <sup>1</sup> 24Z XXX=rate in μs Example: 250		5M 10M Length can be customized: ex.7M=7meters Select or leave blank for 3 meters		M12D <sup>1 2</sup> BC <sup>1 3</sup> Select or leave blank for flying leads
	1: RAL050-W-24C\ 2: RAL201-R-24-ILI					or is 19 inches			

Contact Metaphase Technologies or your local representative for options such as custom diffusers, lenses, polarizers, IP-rated enclosures for harsh environments, higher intensity, custom wavelengths, higher uniformity, etc. Not all options are available for all lights.

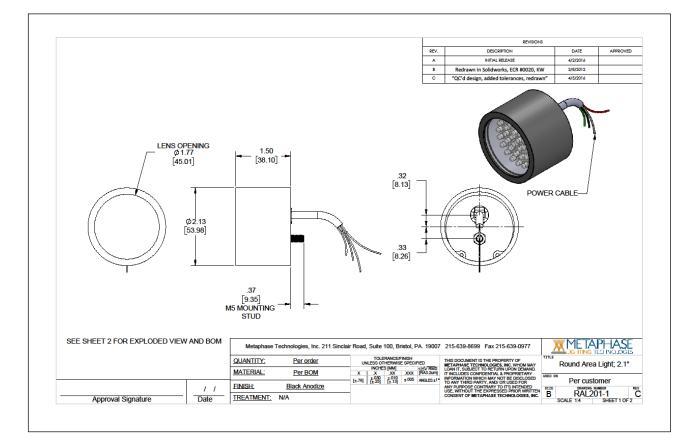
# Round Area Front Light

**PRODUCT DATA SHEET** 



### RAL

### Sample Part Number: RAL201-R-24CV



### COMPLIANCE





#### **CONTACT US**

Contact Pyramid Imaging at **813-984-0125** or your local representative for additional details, options and customizations.

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