



DOME LIGHT

85mm / 3.35" Series

With Internal Driver



ELECTRICAL:

Input Voltage: 23.5-26.4VDC (24VDC \pm 10% burst disabled)
 Input Current: 350 to 650mA typical (3.0A max for burst) @24VDC per channel
Note: Power supply must be capable of 3.0A per light for burst feature to work correctly with supplied cable.
 Strobe Input Impedance: 10K Ω – PNP typical, 9.1K Ω – NPN typical
 Strobe Timing: <20 microseconds from strobe to LED on
 0-10V Input Impedance: 15K Ω typical
 0-10V Input Control: 0V = 100%, 10V = 0% LED current. (Can be left disconnected for 100% LED current)
 Variable Intensity: Adjustable via trim potentiometer from 0% (CCW) to 100% (CW).

Wiring:	Pin #	Wire Color	Function
	1	Brown	+23.5 to +26.4VDC
	2	White	NPN STROBE INPUT: GND for "ON", Open or >Vin-1V for "OFF"
	3	Blue	0VDC (DC GND)
	4	Black	PNP STROBE INPUT: < 1 VDC for "OFF", >3 \leq 30 VDC for "ON"
	5	Grey or Green/Yellow	0-10VDC analog intensity control – 0V = 100%, 10V = 0%

ENVIRONMENTAL:

Operating Temperature: 0 to 50°C
 Relative Humidity: 5 to 85% non-condensing

MECHANICAL:

Lighted Area: 3.35" / 85mm
 Connector: M12 - 5 pin (one per channel)
 Weight: 0.8lbs (363g); 1.0lbs (454g) 2ch

ILLUMINATION:

Light Source: LED – 4 Colors, UV and IR
 Quantity HB LED's: 12 LED's / 6 per color 2 channel
 Light Emitting Pattern: 7.09" / 180mm
 LED Life: up to 100,000 hours*.

*Contact us for LED life information



PART NUMBER DESIGNATION:

DLD85-XXX

XXX = Light Color – see table dash # below

Order part number examples:

1 channel: DLD85-W (White) or DLD85-B (Blue)

2 channel: DLD85-850W (850nmIR and White) or DLD85-RNW (Red and Natural White)

Color	Dash #	λ Dominant Typical	λ Dominant Range	Spectral Half-width $\Delta\lambda_{1/2}$	λ Peak Typical	Units
Infrared	-940	940	n/a	37	950	nm
Infrared	-850	850	n/a	30	860	nm
Red	-R	625	620 - 630	n/a	n/a	nm
Green	-G	530	520 - 535	n/a	n/a	nm
Blue	-B	475	465 - 485	n/a	n/a	nm
Ultra Violet	-UV	395	390 - 410	n/a	n/a	nm
Pure White	-W	Color Temp 5700 - 7000K CRI 70 typ				
Natural White	-NW	Color Temp 3800 - 5000K CRI 70 typ*				
Warm White	-WW	Color Temp 2700 - 3750K CRI 70 typ*				

* higher CRI available on request

FEATURES:

- Built-in Driver(s)
- Auto Burst – LED high current for 500 μ s \pm 10%, then drops to standard current
- Auto Burst Disable Switch
- 0-10VDC Intensity Control
- Potentiometer Intensity Control
- PWM Dimming Capable (with Auto Burst disabled)



Light includes 1 per channel EC3 3-meter cable(s) – cable(s) also available in 5 meter length

Spectrum Illumination • 5114 Industrial Park Rd. • Montague, MI 49437

Phone 231-894-4590 • Fax 231-894-4582

www.spectrumillumination.com

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