

# Back Light Series

## ELECTRICAL:

Input Voltage: 24VDC (25VDC Maximum)

Input Current per square inch:

-**470** 29mA typical (35mA Maximum); -**530** 16mA typical (20mA Maximum)

-**660** 20mA typical (25mA Maximum); -**880** 25mA typical (30mA Maximum)

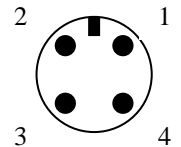
-**WHI** 40mA typical (45mA Maximum)

Strobe Impedance: 9400 ohms per sq inch (i.e. BL44-XXX = 9400 ohms / 16 sq inch = 588 ohms)

Connector: Quick Connect, 4 pin Euro / Micro

Wiring:

Pin #	Wire Color	Function
1	Brown	+24VDC
2	N/C	N/C
3	Blue	+24VDC return (GND)
4	Black	PNP Strobe Input: < 1 VDC for "OFF" +5VDC to +24VDC for "ON"



## MECHANICAL:

Dimensions: <http://www.spectrumillumination.com>

Standard sizes are available from 2"x2" to 12"x12".

Custom sizes are available in 1"x2" increments.

## ILLUMINATION:

Light Source: LED – 4 Colors, IR

Quantity LED's: 12 per square inch

Light Emitting Pattern: See individual dimension drawings

LED Life: up to 100,000 hours\*.

\*Contact us for LED life information

## DIFFUSERS:

White, Opaque – Standard

White, Semi Opaque – Option /MWD

Shower Glass – Option /SD

Thin Film Diffuser – Option /TFD

Polarizer – Option /P

## PART NUMBER DESIGNATION:

**BL48-XXX** for 4"x8" back light

XXX = Light Color -470, -530, -660, -880 & -WHI\*

\* Note: White is not for continuous operation due to short LED life (10,000 hrs @ 80% output at 25°C). Strobing at <10% duty cycle is highly recommended. Higher duty cycles will cause excess heat and shorten LED life.



Light includes 4 meter cable, 8, 15 and 30 meter cables are available at additional cost

Color	Dash #	$\lambda$ Dominant Typical	$\lambda$ Dominant Range	Spectral Half-width $\Delta\lambda_{1/2}$	$\lambda$ Peak Typical	Units
Infrared	-880	n/a	n/a	50	880	nm
Red	-660	643	n/a	20	660	nm
Green	-530	525	520-535	35	530	nm
Blue	-470	470	465-475	25	468	nm
White	-WHI	Color Temp 8500 K typical				

**When operating in continuous mode, light must be mounted to metal structure to provide additional heat dissipation.**