



product introduction

The DFL460 array utilizes 16 high intensity LEDs providing a round 90° light illumination. It also features an integrated constant current driver built into the light. The DFL460 utilizes 24VDC and can operate in continuous or strobe mode. NPN or PNP strobe triggers can be used to control the pulse of the light. Intensity of the light can be controlled via 0-10V remote analog signal or manual potentiometer. The DFL460 has the ability to daisy chain up to 4 lights together through the use of the 5 Pin 5PM12-J1000 cable and mounting hardware. Available in standard narrow, wide, and line optics with options for all standard and some custom wavelengths.



product features



- T-Slot for mounting
- PNP and NPN Strobe input
- Continuous operation or Strobe mode
- Dimmable via built in potentiometer
- Analog intensity 0-10VDC signal
- Connect (2) for 180° or (4) for 360° light coverage
- Sixteen, 1mm² Die High Current LEDs



product specifications

Electrical Input	24VDC +/- 5%
Current	Max. 900mA
Wattage	Max. 22W
Strobe Input	PNP ▶ +3VDC or greater to activate. NPN ▶ GND (<1VDC) to activate
PNP Line	3.7mA @ 3VDC 6.2mA @ 5VDC 12.6mA @ 10VDC 30.4mA @ 24VDC
NPN Line	22mA @ Common (0VDC)
Yellow Indicator LED	LED Strobe Indicator ON = Light Active
Green Indicator LED	ON = Power
Continuous Mode	Light will be in continuous mode by leaving signal on strobe input active
Potentiometer	Intensity control of 10% to 100% Clockwise increases intensity
Analog Intensity	The output is adjustable from 10% -100% of brightness by a 0 -10VDC signal
Connection	5 pin M12 connector
Daisy Chain	Up to four DFL460
Lifespan	100,000 hrs
IP Rating	IP50
Weight	~1400g
Certification	CE and RoHS



product number key

DFL460 – XXX – X* —» Part Number Key

Product Family:
Linear Light
DFL460

Color:
470 – Blue
505 – Cyan
530 – Green
625 – Red
850/940 – IR
WHI - White

Lenses:
N - Narrow
W - Wide

* Lights come standard with Line lenses
CE and RoHS Compliant



warnings



Attention

Please note that the power requirements are 900mA at 24VDC. Failure to supply light with 900mA will result in non-repeatable lighting. Contact Smart Vision Lights for more information.



wiring configuration

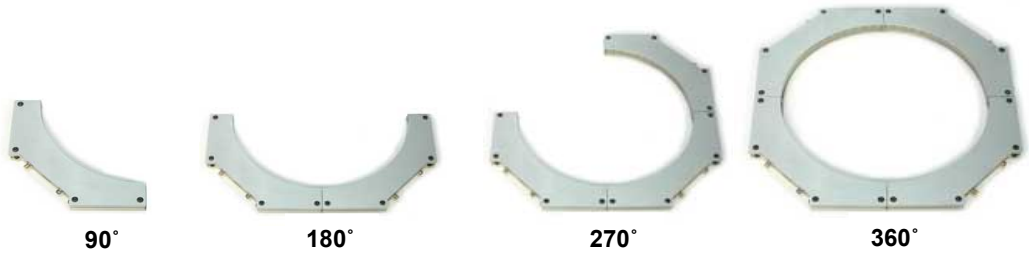
If Analog 0-10VDC is not used to control light intensity;
+VDC (24VDC) must be connected to Analog Input - Jumper pin 5 to pin 1

	Pin	Function	Signal	Wire Color
	1	Power In	+24VDC	BROWN
	2	NPN	Sinking Signal	WHITE
	3	GND	Ground	BLUE
	4	PNP	Sourcing Signal	BLACK
	5	Intensity Control	0-10VDC	GREY †

† Some cables use green/yellow for 0-10V adjustment



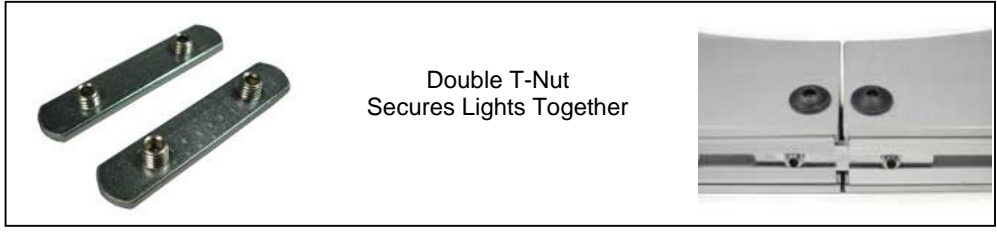
area illumination



Connect up to 4 lights together. Connected together inside diameter is **460mm**.



mounting



Double T-Nut
Secures Lights Together



light distribution

Lens distribution info available at smartvisionlights.com



Line

Wide

Narrow

Intensity	36,000 lux*
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Intensity	24,000 lux*
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Intensity	67,000 lux*
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*Light intensity taken 150mm from center



identification



- Daisy Chain (female)
- Power Input (male)
- Power Indicator LED (Green)
- Signal In Indicator LED (Yellow)



risk group

According to IEC 62471:2006. Full documentation upon request.

Notice

Exempt Group: No photobiological hazard to eyes or skin even for continuous, unrestricted use.
Applicable for wavelengths: 625, 850, and 940.

Caution

Risk Group 1: Possibly hazardous optical radiation emitted from this product. Do not stare at operating lamp. May be harmful to eye. Safe for most applications except prolonged exposures.
Applicable for wavelengths: 470, 505, 530, and WHI.