



product introduction

The SC75 Series of Brick Lights is a more basic version of the S75 Brick Light. It features an integrated constant current driver built into the light. It eliminates the need for any external components in the lighting system. SC75 Series Linear Lights utilize 24VDC and can operate in continuous or strobe mode. NPN or PNP strobe triggers can be used to control the pulse of the light. Available in standard narrow, wide, and line optics with options for all standard and some custom wavelengths.



product features



- 5 Pin M12 Quick Disconnect
- Driver built in – No External wiring to a driver
- PNP and NPN Strobe input
- Continuous operation or Strobe mode
- Six, 1mm² Die High Current LEDs



product specifications

Electrical Input	24 VDC +/- 5%
Current	Max. 400mA
Wattage	Max. 9.6W
Strobe Input	PNP ▶ +4VDC or greater to activate. NPN ▶ GND (<1VDC) to activate
PNP Line	3.7mA @ 3VDC 6.2mA @ 5VDC 12.6mA @ 10VDC 30.4mA @ 24 VDC
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
Connection	5 pin M12 connector
Ambient Operate Temp.	-20° - 50° C (-4° - 122° F)
Lifespan	100,000 hrs
IP Rating	IP50
Certifications	CE and RoHS
Weight	~155g
IEC 62471 Rating	See page 4



product number key

SC75 – XXX – X* —» Part Number Key

Product Family:
Brick Light
SC75

Color:
470 - Blue
530 - Green
625 - Red
850 - IR
WHI - White

Lenses:
W - Wide

* Lights come standard with Narrow lenses

CE and RoHS Compliant



warnings



Attention

Please note that the power requirements are up to 400mA at 24VDC. Failure to supply light with up to 400mA can result in non-repeatable lighting. Contact Smart Vision Lights for more information.



Caution

Additional heatsinking recommended in ambient air temperatures above 25°C.



wiring configuration

	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	NOT USED	NOT USED

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

† Intensity Control is not included – unit is at max. intensity



mounting & accessories



Power Cables

P/N: 5PM12-5 – 5m cable
P/N: 5PM12-10 – 10m cable
P/N: 5PM12-15 – 15m cable



Pan and Tilt Mount

Hardware included

P/N: PB75-M5



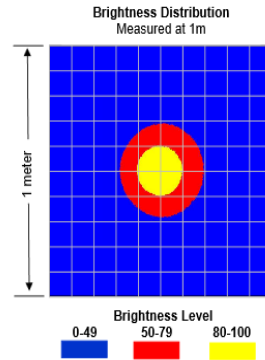
Extrusions

Hardware included



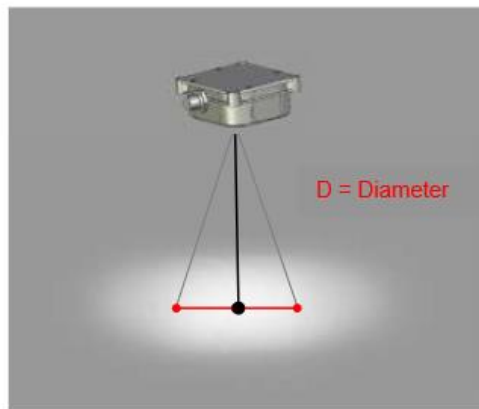
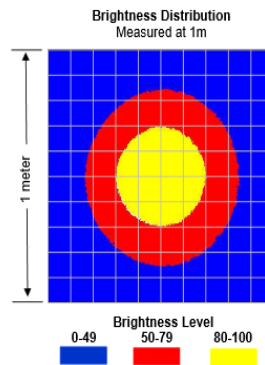
SC75-XXX

Working Distance mm (inches)	Pattern (80%-100% measured intensity) mm (Inches)
.5m (19.7")	100mm (~4") D
1m (39.4")	200mm (~8") D
1.5m (59")	300mm (~12") D
Typical output performance	
Distance = .5 meter	Illumination (Lux) 9600
<i>Illumination measurement taken on White Lights – 6500K</i>	



SC75-XXX-W

Working Distance mm (inches)	Pattern (80%-100% measured intensity) mm (Inches)
.5m (19.7")	210mm (~6") D
1m (39.4")	425mm (~17") D
1.5m (59")	650mm (~22") D
Typical output performance	
Distance = .5 meter	Illumination (Lux) 6300
<i>Illumination measurement taken on White Lights – 6500K</i>	





identification



5 Pin M12 Power Input

Power Indicator LED (Green)

Signal LED (Yellow)

Additional heat sinking recommended in ambient air temperatures above 25°C.



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.

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, 530, and WHI.