
READ BEFORE INSTALLATION

Luminaires should be wired with power off and all wiring and connections should be complete and checked before power is switched on

Do not remove any supplied product cable labels, since warranty is void if labels are removed

Cables should be joined with terminal blocks and, considering the operating environment, protected against moisture ingress with suitable tapes and sealants and IP68 junction boxes (see required accessories in each luminaire)

Luminaires 24V DC and 48V DC (constant voltage) of this catalogue do not require to observe the polarity +/- (unpolarized connection). However, when connecting a 350 mA / 500 mA / 700 mA (constant current) luminaire always observe the correct polarity +/- . Failure to do so may destroy the luminaire

Control cables should be of a suitable shielded type and not fixed in proximity to high voltage power cables or other sources of electromagnetic interference

B LIGHT luminaires must only be used with B LIGHT supplied power supplies

The luminaires in this catalogue require 48V DC (constant voltage) power supply and for North America 24V DC (constant voltage) Class 2 power supply ETL/UL listed.

Read section required accessories in each luminaire and choose the power supply considering the correct load type and size and always add a spare 20% as safety margin

Some luminaires in this catalogue require 350 mA / 500 mA / 700 mA (constant current) power supply. Read section required accessories in each luminaire and choose a 350 mA / 500 mA / 700 mA (constant current) power supply or for North America a 350 mA / 500 mA / 700 mA (constant current) Class 2 power supply ETL/UL listed

Most of the luminaires of this catalogue will last with ambient temperature up to 60° C / 140° F. Exceeded 45° C / 113° F, there is a reduction of the luminous flux proportional to the reached temperature

WIRING DISTANCE

The below wiring distance data are produced from testing with B LIGHT supplied power supplies.
Performance of B LIGHT products with other power supplies cannot be guaranteed.
Contact B LIGHT for further information

LUMINAIRES 48V DC (CONSTANT VOLTAGE)

Power supply load	Cable size / max wiring distance from the power supply to the last connected luminaire				
	0,5 mm ²	0,75 mm ²	1,0 mm ²	1,5 mm ²	2,5 mm ²
20W	50 m	75 m	100 m	150 m	250 m
40W	25 m	38 m	50 m	75 m	125 m
60W	17 m	25 m	35 m	50 m	85 m
100W	10 m	15 m	20 m	30 m	50 m
150W	7 m	10 m	15 m	20 m	35 m
240W	4,5 m	7 m	9 m	14 m	21 m

LUMINAIRES 24V DC (CONSTANT VOLTAGE)

Power supply load	Cable size / max wiring distance from the power supply to the last connected luminaire				
	0,5 mm ²	0,75 mm ²	1,0 mm ²	1,5 mm ²	2,5 mm ²
20W	12 m	18 m	24 m	36 m	60 m
40W	6 m	9 m	12 m	18 m	30 m
60W	4 m	6 m	8 m	12 m	20 m
100W	2 m	3 m	5 m	7 m	12 m
150W	1,5 m	2,5 m	3 m	5 m	8 m
240W	1 m	1,5 m	2 m	3 m	5 m

LUMINAIRES 350 mA / 500 mA / 700 mA (CONSTANT CURRENT)

Power supply	Cable size / max wiring distance from the power supply to the last connected luminaire				
	0,5 mm ²	0,75 mm ²	1,0 mm ²	1,5 mm ²	2,5 mm ²
350 mA	19 m	28 m	37 m	56 m	95 m
500 mA	13 m	19 m	25 m	39 m	66 m
700 mA	9 m	14 m	18 m	27 m	46 m