

BS100LR

RETROFIT KIT

Type: _____

Project: _____

Delivered Lumens:
3958 lm - 8819 lm

Input Wattage:
30W - 70W

Efficacy:
Up to 165 lm/W

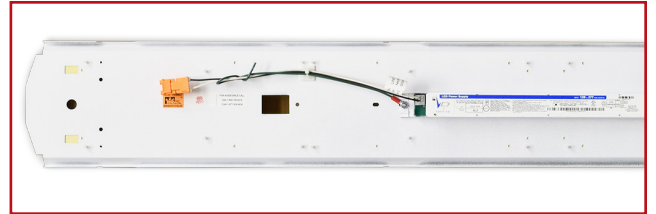
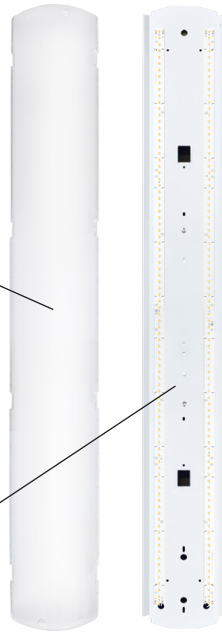
Colour Temperatures:
3000K, 3500K, 4000K, 5000K

Projected Lumen Maintenance:
L₈₅ @ >54,000 hrs.

A quick LED upgrade system for your existing fluorescent BS100 units.

The UV stabilized polycarbonate diffuser eliminates glare and is integrated with crystals that assist in the enhancement of even light distribution

Electrical assembly holds the LED modules and power supply



Back of electrical assembly includes LED power supply and hot-load disconnect



Fully assembled product

Configurations

| MODEL- | LENGTH | OPERATION | POWER | COLOUR TEMP- | INPUT- | OPTIONS |
|---------|---------|-----------------------------|--------------|--------------------------|--------------|---|
| BS100LR | 4 (4ft) | [BLANK] (AC only) | VL (3958 lm) | 3K ² (3 000K) | S (120-277V) | SS (stainless steel clips) |
| | | SA ¹ (EM backup) | L (6185 lm) | 35K (3 500K) | C (347V) | IOS01 (internal 120-277V on/off microwave sensor) |
| | | | M (6756 lm) | 4K (4 000K) | | IOS02 (internal 120-347V microwave step dimming sensor) |
| | | | H (8819 lm) | 5K (5 000K) | | IOS03 (internal 120-277V step dimming microwave sensor) |
| | | | | | | EOS09 (end mount on/off 120-277V) |
| | | | | | | LC (Line Cord) |
| | | | | | | CT (Cabtire Cord) |
| | | | | | | TLP (Twist lock plug) |
| | | | | | | FP (fuse protection) |
| | | | | | | TP ³ (4 tamper proof screws) |
| | | | | | | SP (10kA surge protection) |
| | | | | | | D ⁴ (DALI driver) |

NOTE¹: SA is not available in 347V; **NOTE²:** longer lead time may apply, contact factory **NOTE³:** Voids IP rating and sanitation listing; **NOTE⁴:** Contact factory for DALI on H0-347V models for availability.

Compatible Sensor Table

| ORDERING GUIDE | BRAND | MODEL |
|----------------|-------------|---------------------|
| EOS01 | Acuity | SBOR-10-OEX-D |
| EOS02 | Acuity | SBOR-10-OEX-D-HVOLT |
| EOS06 | Wattstopper | FSP-221B-D-L7-W |

Compatible sensors can be ordered as options but will be shipped separately. Sensor brand is manufacturer's choice unless otherwise noted. If a compatible brand / type sensor is required please call for price. Externally mounted sensors will be shipped separately.

DLC ID Table

| MODEL | DLC ID | MODEL | DLC ID |
|---------------|----------|----------------|----------|
| BS100LR-4H3K | PQT8R77X | BS100LR-4M3K | PJZ62M3D |
| BS100LR-4H35K | PMYX5L70 | BS100LR-4M35K | P34XDMZZ |
| BS100LR-4H4K | PUAIRN0K | BS100LR-4M4K | P2BUU2IM |
| BS100LR-4H5K | PHE6KTPC | BS100LR-4M5K | P7C27C34 |
| BS100LR-4L3K | P14L5J0J | BS100LR-4VL3K | PD6R4UPS |
| BS100LR-4L35K | PV59B2KM | BS100LR-4VL35K | PPFPUE3W |
| BS100LR-4L4K | P9SAB6PQ | BS100LR-4VL4K | PMLLQDI3 |
| BS100LR-4L5K | PXC14XYS | BS100LR-4VL5K | PYYK1PLP |

BS100LR

RETROFIT KIT:

A quick upgrade system for your existing fluorescent BS100 units. Designed to easily snap into the existing BS100 housing. Engineered to save you time and labour. Includes the polycarbonate diffuser, the steel reflector, LED modules and driver.

POWER LINE/FEED:

5-wire, 18awg, pre-stripped 12" leads for quick in-field connection and hot load disconnect feature.

WEIGHT:

5.4 lbs. / 2.5 kilo.

REFLECTOR:

R: Flat steel reflector system finished in durable white powder coat.

RG: Angled steel reflector system finished in durable white powder coat.

The reflector system holds all electrical components.

DIFFUSER:

Frosted UV stabilized polycarbonate diffuser, eliminates glare and provides even distribution.

ELECTRICAL:

Available in 3000K, 3500K, 4000K or 5000K colour temperatures. High efficiency driver operates 100V through 277V or 347V, 50-60HZ. L85 up to 54,000 hours.

DIMMING:

0 - 10V dimming down to 1% is standard. Optional DALI driver is available.

EMERGENCY BACKUP (SA):

Emergency backup with Ni-Cd batteries provides 1135 lumens for 90 minutes.

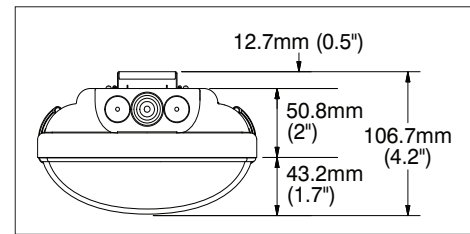
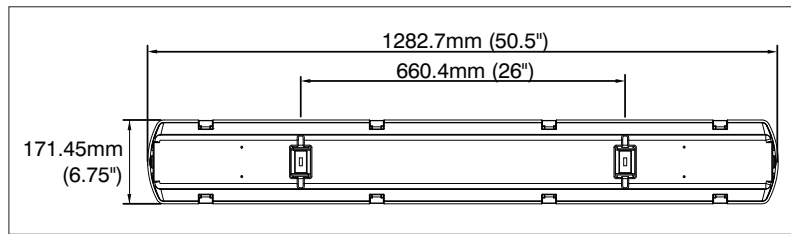
OPERATING TEMPERATURE:

AC only: -40°C to 40°C
SA: 0°C to 40°C

WARRANTY:

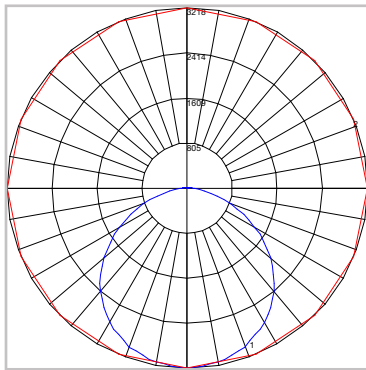
5 year LED warranty, see website for full warranty details.

Dimensions



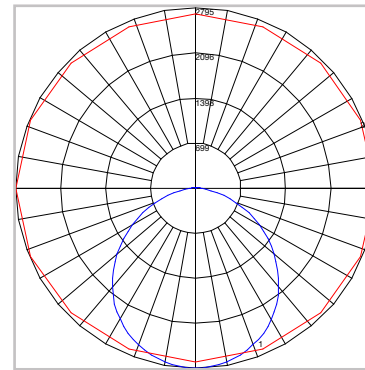
BS100LR-4H-5K

Luminous Intensity Distribution



BS100LRG-4H-5K

Luminous Intensity Distribution



Zonal Lumen Summary

| ZONE | LUMENS | % LUMINAIRE |
|--------|--------|-------------|
| 0-30 | 2431 | 28% |
| 10-90 | 8377 | 95% |
| 60-80 | 1560 | 18% |
| 90-180 | 144 | 1% |
| 0-180 | 8822 | 100% |

Zonal Lumen Summary

| ZONE | LUMENS | % LUMINAIRE |
|-------|--------|-------------|
| 0-30 | 1790 | 20% |
| 0-40 | 2859 | 32% |
| 0-60 | 5174 | 59% |
| 60-80 | 2323 | 26% |
| 70-80 | 1090 | 12% |
| 0-90 | 8284 | 94% |
| 0-180 | 8823 | 100% |

PHOTOMETRIC DATA

BS100LR

Energy Chart

| MODEL | LENGTH | COLOUR | EFFICACY | WATTAGE | LUMEN OUTPUT | CRI | REPORTED L85' (HOURS) |
|-----------------|--------|--------|----------|---------|--------------|-----|-----------------------|
| BS100LR-4VL-3K | 4ft | 3000K | 143 lm/W | 30 | 3958 | 80+ | >54,000 |
| BS100LR-4VL-35K | 4ft | 3500K | 148 lm/W | 30 | 4081 | 80+ | >54,000 |
| BS100LR-4VL-4K | 4ft | 4000K | 151 lm/W | 30 | 4169 | 80+ | >54,000 |
| BS100LR-4VL-5K | 4ft | 5000K | 153 lm/W | 30 | 4221 | 80+ | >54,000 |
| BS100LR-4L-3K | 4ft | 3000K | 155 lm/W | 40 | 6185 | 80+ | >54,000 |
| BS100LR-4L-35K | 4ft | 3500K | 159 lm/W | 40 | 6378 | 80+ | >54,000 |
| BS100LR-4L-4K | 4ft | 4000K | 163 lm/W | 40 | 6515 | 80+ | >54,000 |
| BS100LR-4L-5K | 4ft | 5000K | 165 lm/W | 40 | 6596 | 80+ | >54,000 |
| BS100LR-4M-3K | 4ft | 3000K | 139 lm/W | 50 | 6756 | 80+ | >54,000 |
| BS100LR-4M-35K | 4ft | 3500K | 143 lm/W | 50 | 6967 | 80+ | >54,000 |
| BS100LR-4M-4K | 4ft | 4000K | 146 lm/W | 50 | 7117 | 80+ | >54,000 |
| BS100LR-4M-5K | 4ft | 5000K | 148 lm/W | 50 | 7205 | 80+ | >54,000 |
| BS100LR-4H-3K | 4ft | 3000K | 134 lm/W | 70 | 8269 | 80+ | >54,000 |
| BS100LR-4H-35K | 4ft | 3500K | 138 lm/W | 70 | 8527 | 80+ | >54,000 |
| BS100LR-4H-4K | 4ft | 4000K | 141 lm/W | 70 | 8711 | 80+ | >54,000 |
| BS100LR-4H-5K | 4ft | 5000K | 142 lm/W | 70 | 8819 | 80+ | >54,000 |
| | | | | | | | |
| BS100LRG-4L-3K | 4ft | 3000K | 155 lm/W | 40 | 6185 | >80 | >54,000 |
| BS100LRG-4L-35K | 4ft | 3500K | 159 lm/W | 40 | 6378 | >80 | >54,000 |
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| BS100LRG-4H-5K | 4ft | 5000K | 142 lm/W | 70 | 8819 | >80 | >54,000 |

NOTES: Actual performance may vary between +/-5% of initial lumen output **NOTE!**: Calculated as per TM-21-11. Limited by 6X LM80 test duration.

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