

STREET LIGHTS | SL3 Spectral Enhanced Series



KEY PRODUCT BENEFITS

- High S/P ratio upto 2.1
- Indirect-beam low glare design
- IP66 weatherproof
- Durable IK08 grade enclosure
- Meets vibration test up to 3.0G
- Wind load upto 52m/s (188km/h)
- IES light distribution Type II/III
- EVE upto 26250 pupil lumens



KEY FINANCIAL BENEFITS

- Leasing program where you can get free product in exchange for sharing your savings.
- Lower net expenses



ENVIRONMENTAL SENSIBILITY

- Less energy required
- Contains no hazardous substances
- Ultraviolet Free
- No mercury and lead-free RoHS Compliance

■ INNOVATION

We are an innovation company first, and a lighting company second. Since 2005, we have been perfecting LED technology, manufacturing, and successfully installing our products worldwide, first as Lemnis Lighting and now as Ellipz Lighting.

■ ELLIPZ LUMINAIRES

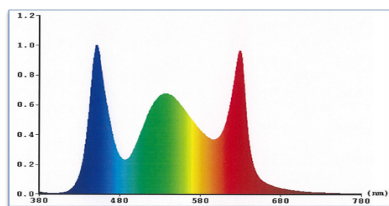
We combine knowledge of visual perception with the newest LED and lighting technologies. The light sources in Ellipz luminaires are red and single-phosphor cyan LEDs. With this proprietary concept, an optimal light spectrum is developed so that excellent vision is obtained with little energy. The basic principle is that a higher S/P ratio for maximum energy savings results in lighting with high Equivalent Visual Efficiency (EVE).

■ BETTER VISIBILITY WITH LESS ENERGY

Ellipz Lighting has developed a pioneering concept in LED lighting for the illumination of parking areas, outdoor areas and public spaces. Based on our patented technology we create light that perfectly matches the sensitivity of the human eye for optimal functioning while indoor and during nighttime conditions.

PRODUCT SPECS | SL3 Spectral Enhanced Series

*Ellipz High-Photopic Light Source is spectrally enhanced with Ellipz proprietary light spectrum for best color sensation and recognition at all illumination environments.



SL3 | 60W
5700K (6108070ANP)
5000K (61080720ANP)
4000K (61080740ANP)

SL3 | 75W
5700K (6100770ANP)
5000K (6100720ANP)
4000K (6100740ANP)

SL3 | 120W
5700K (6100770ANP)
5000K (6100720ANP)
4000K (6100740ANP)

SL3 | 150W
5700K (610C070ANP)
5000K (610C020ANP)
4000K (610C040ANP)

Electrical Specs

Lamp Rated Power (W)	60	75	120	150
System Power, Nominal (W)*	66	82	128	158
Rated Voltage Range(VAC)	110/230V	110/230V	110/230V	110/230V
Line Frequency (Hz)	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Operating Voltage range(VAC)	90 -305V	90 -305V	90 -305V	90 -305V
Power Factor, typical	> 0.90	> 0.90	> 0.90	> 0.90

Optical Specs

Photopic Lumen, typical (lm, @5700K CCT)**	6000	7500	11750	14500
Photopic Efficacy (lm/W)**	91	91	92	92
S/P Ratio	2.1/ 2.0/1.9	2.1/ 2.0/1.9	2.1/ 2.0/1.9	2.1/ 2.0/1.9
EVE (lm, @5700K CCT)***	10860	13780	21270	26250
CRI (typical, 5700K CCT)	91	91	91	91

Mechanical Specs

Weight (kg)	5.8	5.8	7.2	7.2
Dimensions L x W x H (mm)	600 x 300 x 115	600 x 300 x 115	760 x 305 x 120	760 x 305 x 120

Others

Burning Hours Life Time (h, @L85B15)	50,000 hrs L85B15
Ventilation / Cooling Mechanism	Channeled convection and Alu 47 gr/W
Operating Ambient Temperatures	-40°C to +45°C
Correlated Color Temperature (K)	5700K/5000K/4000K
Vertical/Lateral Light Distribution	IES Type II / III - Short
IP & IK Rating	IP 66 / IK 08
Direct or Indirect Lighting	Indirect, usage of patented reflectors
Usage of Indirect Lighting Technology	Satinized mirror reflector for max lifetime
Cover Type to Protect LEDs	Tempered glass
Housing	Die-casted aluminium
Color	Standard RAL 7035
Protections on the followings:	
a. lightning	Surge 4kV
b. over voltage	Shut down output voltage with auto-recovery or re-power on to recovery
c. short circuit	Constant current limiting, recovers automatically after fault condition is removed
d. over temperature	Shut down output voltage, recovers automatically after temperature goes down
Electrical Insulation	Class I
Vibration Test Certification	3.0G
Wind load (EN60598-2-3:2011, clause 3.6.3.1)	Meets 52 m/s (188 km/h) for heights between 8 m and 15 m
Line Current Harmonics Distortion, A-THD	IEC61000-3-2 (15% at 230V/50Hz, 13% at 230V/60Hz)
Blue Light Hazard	Within IEC 62471 photo-biological safety limit
Termination Type	IP rated terminal block
Termination Wires	THHN copper, min. wire gauge 0.824 mm ²

* System power is rated power $\pm 10\%$ subjects to the forward voltage (Vf) tolerance of the LED modules.

** Results are based on 5700K CCT lamps, the 4000K and 5000K CCT lamps values are typically 5%~10% lower.

*** The value of Equivalent Visual Efficiency or Perceived Lumen Output (EVE) is calculated based on equation : $EVE = \text{Photopic Lumen} \times (\text{S/P ratio})^{\wedge 0.8}$ as per IES TM 24-13 recommendation. Results are based on 5700K CCT lamps.

LOGISTICS DATA

Ellipz SL3 120W & 150W

Type	Single Unit Box	Pallet	20 ft Container - Palletized	40ft Container - Palletized	20 ft Container -Non Palletized	40ft Container -Non Palletized
Quantity	1	24	240	480	412	824
Dimensions (mm)	820x370x200	1100x1100x1800	5898x2352x2393	12032x2352x2340	5898x2352x2393	12032x2352x2340
Gross Weight (Kg)	8.8	228.2	2282	4564	3626	7252

Ellipz SL3 60W & 75W

Type	Single Unit Box	Pallet	20 ft Container - Palletized	40ft Container - Palletized	20 ft Container -Non Palletized	40ft Container -Non Palletized
Quantity	1	32	320	640	504	1008
Dimensions (mm)	670x370x200	1140x1140x1800	5898x2352x2393	12032x2352x2340	5898x2352x2393	12032x2352x2340
Gross Weight (Kg)	7.2	247.4	2474	4948	3629	7258