

STREET LIGHTS | SL2 Mesopic Series



KEY PRODUCT BENEFITS

- Almost perfect color recognition
- High S/P ratio up to 3.4
- Unique spectral distribution by mixing red, green and cyan LEDs
- Equivalent Visual Efficiency (EVE)* up to 12,500



KEY FINANCIAL BENEFITS

- ROI is less than 1 year for 24/7 applications
- 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, green and blue LEDs. With this RGB concept, an optimal light spectrum is developed so that excellent vision is obtained with little energy. The basic principle is that a high S/P ratio for maximum energy savings results in lighting with high Equivalent Visual Efficiency (EVE).

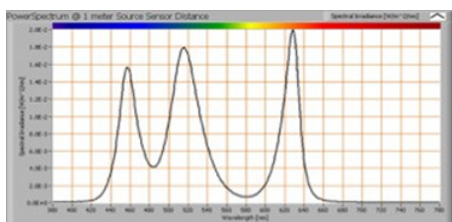
■ BETTER VISIBILITY WITH LESS ENERGY

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 | SL2 Mesopic Light Series

** SL2 80W has 6 reflectors instead of 8 and dimensions are the same as SL2 120W.

*CRI is not an appropriate measure for mesopic lights.



Electrical Specs

Lamp Rated Power (W)	40	60	80	120
System Power, Nominal (W)*	45	66	88	132
Rated Voltage (V/AC)	115/230	115/230	115/230	115/230V
Frequency (Hz)	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Operating Voltage (V/AC)	90 -305V	90 -305V	90 -305V	90 -305V
Power Factor	> 0.95	> 0.95	> 0.95	> 0.95

Optical Specs

Nominal Photopic Lumen Output (lm)	1700	2000	3000	4100
S/P Ratio	3.4 (6000K) 2.5 (4000K)	3.4 (6000K) 2.5 (4000K)	3.4 (6000K) 2.5 (4000K)	3.4(6000K) 2.5(4000K)
Nominal Mesopic Lumen Output (lm)**	4525	5325	7985	10910
Photopic Efficacy (lm/W)	37.8	30.3	34.1	31.1
Mesopic Efficacy (lm/W)	100.6	80.7	90.7	82.7

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	734 x 260 x 145

Others

Burning Hours Life Time (h)&Dimmable	80,000 hrs L70B50 or 50,000 hrs L85B15 & OPTIONAL 1-10 VDC
Operating Ambient Temperatures	-40°C to +45°C
Ventilation / Cooling Mechanism	Channelled convection and/or Alu 47 gr/W
Correlated Color Temperature (K)	6000K and 4000K
Vertical/Lateral Light Distribution	Yes, 4.5h-6h/Type I, Width=1.5h
IP Rating / IK Rating	IP 66 / IK 08
Direct or Indirect Lighting	Indirect, usage of patented reflectors
Usage of Indirect Lighting	Satinized mirror reflector for max lifetime
Technology Cover Type to Protect LEDs	Tempered glass
Housing	Die-casted alumin
Color	All colors possible, standard RAL 7035 (MOQ may apply for non standard colors)
Protections on the following:	
a. lightning	Surge 4kV
b. over voltage	Shut down o/p 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 o/p voltage, recovers automatically after temperature goes down
Electrical Insulation	Class I
Vibration Test Certification	up to 3.0G
Harmonics Distortion	EMC Directive 2004/108/EC and IEC61000-3-2:2006 A2:2009 (actual ATHD < 15%)
Biological Rhythm	No measurable effect due to absence of major blue spectrum
Blue Light Hazard	Ellipz applies red and cyan chips, within IEC62471 limit
Termination Type	Terminal Block
Wire Type	THHN copper, min. wire gauge 0.824 mm ²

* System power is rated power ±10% depending on the Vf of the LED modules

** Results are based on 6000K CCT lamps, 4000K CCT lamps values are 15 to 20% less

LOGISTICS DATA

Ellipz SL2 80W & 120W

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 SL2 40W & 60W

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