

STREET LIGHTS | SL1 Mesopic Series



KEY PRODUCT BENEFITS

- Perfect color recognition
- Highest S/P ratio up to 3.4
- Unique spectral distribution by mixing mainly red, green and cyan LEDs
- Equivalent Visual Efficiency (EVE)* up to 10910 lumen



KEY FINANCIAL BENEFITS

- ROI is less than 2 year for 12hrs daily 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.

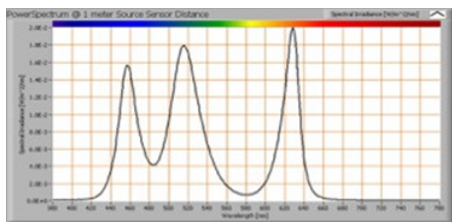
■ ELLIPZ LUMINAIRES

We combine knowledge of visual perception with the newest LED and lighting technologies. The light sources in Ellipz luminaires are red, and cyan/green 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 highest 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 | SL1 Mesopic Series



Electrical Specs	40W	60W	80W	120W
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	40W	60W	80W	120W
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	40W	60W	80W	120W
Weight (Kg)	5.2	5.2	7.2	7.2
Dimensions L x W x H (mm)	539 x 260 x 145	539 x 260 x 145	734 x 260 x 145	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
Wind load (EN 60598-2-3:2011, clause 3.6.3.1)	Meets 52 m/s (188 km/h) for heights between 8 m and 15 m
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/green chips, within IEC62471 limit
Termination Type	IP66 rated 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
 ***CRI is not an appropriate measure for mesopic lights

LOGISTICS DATA

Ellipz SL1 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	32	320	640	500	1000
Dimensions (mm)	790x315x200	1200x1000x1800	5898x2352x2393	12032x2352x2340	5898x2352x2393	12032x2352x2340
Gross Weight (Kg)	8.2	279.4	2794	5588	4100	8200

Ellipz SL1 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	48	480	960	660	1320
Dimensions (mm)	600x315x200	1200x1000x1800	5898x2352x2393	12032x2352x2340	5898x2352x2393	12032x2352x2340
Gross Weight (Kg)	6.2	314.6	3146	6292	4092	8184