

HIGH BAY LIGHTS | HB1 Spectral Enhanced Series



KEY PRODUCT BENEFITS

- CRI 91 & Saturated Red R9 > 50
- S/P ratio up to 2.1 (5700K CCT)
- 10,940 Photopic Lumen (5700K)
- Equivalent Visual Efficiency (EVE)* 19,805 EVE Lumen
- IP66 weatherproof protection



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

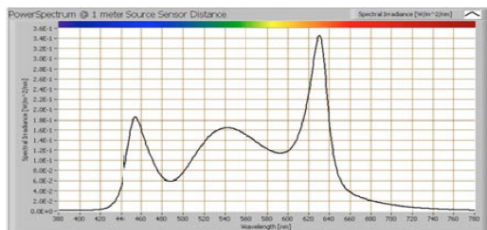
We combine knowledge of visual perception with the newest LED and lighting technologies. The light sources in Ellipz luminaires are red and single-phosphor cyan LEDs. With this proprietary concept, an optimal light spectrum is developed so that excellent vision is obtained with little energy. The basic 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 | HB1 Spectral Enhanced Series

Spectral Power Distribution



HB1 | 60W
4000K (7840AC)
5000K (7820AC)
5700K (7870AC)

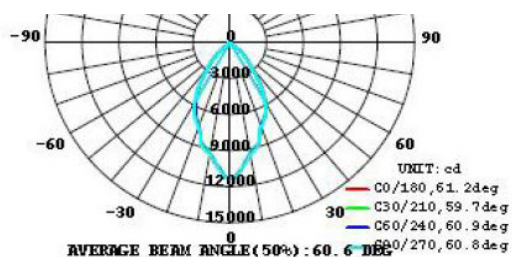
HB1 | 120W
4000K (7740AC)
5000K (7720AC)
5700K (7770AC)

Electrical Specs		
Rated Voltage (VAC)	110/230/277	110/230/277
Operating Voltage Range(VAC)	90 - 305	90 - 305
Rated Current (A)	0.59/0.29/0.24	1.20/0.59/0.49
Rated Lamp Power (W)	60	120
System Power, nominal (W)	67	130
Line Frequency (Hz)	50/60	50/60
Power Factor	0.98/0.95/0.93	0.98/0.95/0.93
Optical Specs		
CCT (K)	4000/5000/5700	4000/5000/5700
Lumen output (lm, @5700K)	5,840	10,940
Color rendering index (CRI), typical	91	91
Photopic Efficacy (lm/W)	87	84
Average Beam Angle (°)	38	61
S/P Ratio	1.9/2.0/2.1	1.9/2.0/2.1
EVE (pupil lumen, @5700K)*	10570	19805
Dimmable**	No	No
Others		
Operating temperature (°C)	-40°C~+45°C	-40°C~+45°C
Storage temperature (°C)	-40°C~+80°C	-40°C~+80°C
Operating Humidity (%)	20 ~ 95 %RH	20 ~ 95 %RH
Life Span (h) L85B15	50,000	50,000
Height (mm) x Diameter (mm)	400 x 395	665 x 505
Weight [kg]	5.2	8.7
Weatherproof protection	IP66	IP66
Certification	CE	CE

*Equivalent Visual Efficiency (EVE) is based on IES TM 24-13 recommendation which is calculated as follows: EVE= Photopic lumen x (S/P Ratio)^0.8

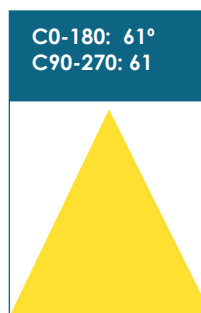
** Dimmable version is available upon request. The standard driver needs to be upgraded to dimmable version.

Polar Curve (120W)



Isolux Table (120W)

Distance m.	Ø 50% Half-peak diameter (m)		Eavg	
	C0-180	C90-270	Lux	fc
1	1.18	1.18	5970	555
2	2.36	2.36	1493	139
3	3.53	3.53	663	62
4	4.71	4.71	373	35
6	7.07	7.07	166	15
8	9.42	9.42	93	9
10	11.78	11.78	60	6



The E (Lux) values are not accurate, when within distance of less than 5 times of LED light emitter surface size. Within this distance from the lamp, the measured lux values will be less than the computed values in this overview as the measurements are then within the Near Field of the lamp.

LOGISTICS DATA

Ellipz HB1 60W

Type	Single Unit Reflector	Pallet Driver head&Reflector	20 ft Container - Palletized	40ft Container - Palletized	20 ft Container -Non Palletized	40ft Container -Non Palletized
Quantity	4	32	320	640	700	1,400
Dimensions (mm)	440x440x310	1100x1100x1540	5898x2352x2393	12032x2352x2340	5898x2352x2393	12032x2353x2340
Gross Weight (Kg)	7.45	215	2,150	4,300	4,280	8,560

Ellipz HB1 120W

Type	Single Unit Reflector	Pallet Driver head&Reflector	20 ft Container - Palletized	40ft Container - Palletized	20 ft Container -Non Palletized	40ft Container -Non Palletized
Quantity	4	16	160	320	348	696
Dimensions (mm)	670x670x390	1200x800x1800	5898x2352x2393	12032x2352x2340	5898x2352x2393	12032x2353x2340
Gross Weight (Kg)	19.2	183	1,830	3,660	3,550	7,100