

HIGH BAY LIGHTS | HB2 Spectral Enhanced Series



KEY PRODUCT BENEFITS

- CRI 91 & Saturated Red R9 > 50
- S/P ratio up to 2.1 (5700K CCT)
- 12,090 Photopic Lumen (5700K)
- Equivalent Visual Efficiency (EVE)* 21,885 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

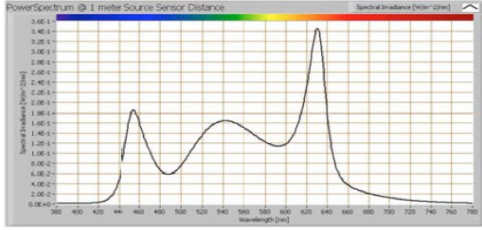
We combine knowledge of visual perception with the newest LED and lighting technologies. The light sources in Ellipz luminaires are red and single-phosphor cyan LEDs. With this proprietary concept, an optimal light spectrum is developed so that excellent vision is obtained with little energy. The basic 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 | HB2 Spectral Enhanced Series

Spectral Power Distribution



HB2 | 60W
4000K (7A08040AC0)
5000K (7A08020AC0)
5700K (7A07080AC0)

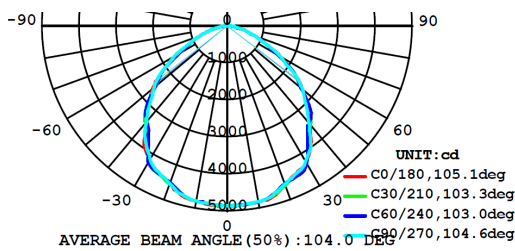
HB2 | 120W
4000K (7A07040AC0)
5000K (7A07020AC0)
5700K (7A07070AC0)

Electrical Specs		
Rated Voltage (VAC)	110/230/277	110/230/277
Operating Voltage Range(VAC)	90 – 305	90 – 305
Rated Current (A)	1.20/0.59/0.49	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)	6,230	12,090
Color rendering index (CRI), typical	91	91
Photopic Efficacy (lm/W)	93	93
Average Beam Angle (°)	113	104
S/P Ratio	1.9/2.0/2.1	1.9/2.0/2.1
EVE (pupil lumen, @5700K)*	11,280	21,885
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)	211 x 282	245 x 320
Weight [kg]	4.0	5.2
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}

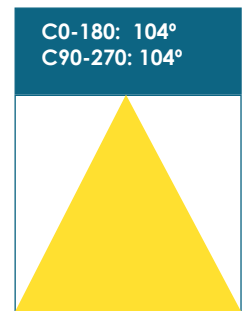
** Dimmable version is available upon request. The standard driver needs to be upgraded to dimmable version.

Polar Curve (120W)



Isolux Table (120W)

Distance m.	Ø 50%		Eavg	
	C0-180	C90-270	Lux	fc
1	2.56	2.56	1668	155
2	5.12	5.12	417	39
3	7.68	7.68	185	17
4	10.24	10.24	104	10
6	15.36	15.36	46	4
8	20.48	20.48	26	2
10	25.60	25.60	17	2



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 HB2 60W (Twin-pack)

Type	Single Unit Box	Pallet	20 ft Container - Palletized	40ft Container - Palletized	20 ft Container - Non Palletized	40ft Container - Non Palletized
Quantity	2	60	540	1140	1224	2520
Dimensions (mm)	370x340x370	1200x1000x2140	5900x2300x2300	11900x2300x2300	5900x2300x2300	11900x2300x2300
Gross Weight (Kg)	8.8	297	2673	5643	5385.6	11088

Ellipz HB2 120W (Twin-pack)

Type	Single Unit Box	Pallet	20 ft Container - Palletized	40ft Container - Palletized	20 ft Container - Non Palletized	40ft Container - Non Palletized
Quantity	2	48	480	960	780	1560
Dimensions (mm)	450x370x385	1200x1000x1740	5898x2352x2393	12032x2352x2340	5898x2352x2393	12032x2352x2340
Gross Weight (Kg)	10.8	317	3170	6340	8424	16848