

Ellipz High Bay Light – HBU1 & HBU2 Series

- In 3 high power models of **100W**, **150W** and **200W**
- **HBU1** provides reflector for narrow beam applications
- Integrated with **Ellipz Spectral Enhanced Photopic** LED modules
- Highest **S/P ratio** (up to 2.1) in the industry provides best perceived brightness
- Extremely efficient **110lm/W**
- Very good color rendition **upto 96**. and saturated red (**R9**) for best color sensation
- **IP66** weatherproof protection
- **Optional dimming** with suitable dimmable drivers



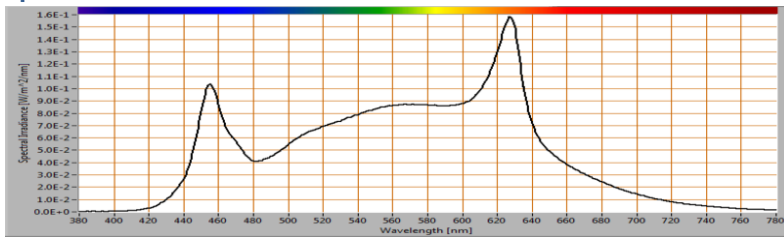
Ellipz HBU1 (with reflector) / Ellipz HBU2

Ordering Code (Lamp only)	HBU10UA00X / HBU20UA00X	HBU10UF00X / HBU20UF00X	HBU10UG00X / HBU20UG00X
Correlated Color Temperature, CCT	X: 4=4000K / C=5700K		
Electrical Specs			
Rated Voltage (Vac)	220~240	220~240	220~240
Rated Line Current (A, @230Vac)	0.460	0.660	0.790
Rated System Power (W)	100	150	180
Supply Voltage Range (Vac)	100~277	100~277	100~277
Line Frequency (Hz)	50/60	50/60	50/60
Power Factor (@230Vac)	0.95	0.99	0.99
Optical Specs			
CCT (K)	4000 / 5700	4000 / 5700	4000 / 5700
Lumen Output (lm, @5000K)	10,000	16,500	18,000
Photopic Efficacy (lm/W)	*100	110	*100
Color Rendering Index (Ra)	91 typ.	91 typ.	91 typ.
SP ratio	1.8 / 2.1	1.8 / 2.1	1.8 / 2.1
EVE (pupil lumen, @5700K)**	18,100	29,870	32,590
Beam Angle (@ 50% I-max)	HBU1: 45° / HBU2: 110°	HBU1: 45° / HBU2: 110°	HBU1: 45° / HBU2: 110°
Flicker index	<0.005	<0.005	<0.005
Photon current, umol/s	-	152.9	-
PAR value, umol/s/m ² (@ 1m distance)	-	55.6	-
Environmental Spec			
Operating Temperature(°C)	-40°C to 45°C	-25°C to 45°C	-40°C to 45°C
Storage Temperature (°C)	-25°C to 80°C	-25°C to 80°C	-25°C to 80°C
Operating Humidity (%)	10 % to 95% RH	10 % to 95% RH	10 % to 95% RH
Life span (h), L70B50	50,000	50,000	50,000
Mechanical Specs			
Housing	Casted aluminium	Casted aluminium	Casted aluminium
Front cover	Tempered glass	Tempered glass	Tempered glass
Diameter x Height (mm)	360 x 140	360 x 140	360 x 140
Weight (kg)	4.5	5.5	5.5
IP Rating	IP66	IP66	IP66
Approbation			
Certification	CE pending	CE pending	CE pending
RoHS 2.0	Yes	Yes	Yes

* HBU 100W & HBU180W are derivative models from HBU150W, with variation in lumen efficacy performance

** EVE (Effective Visual Efficiency) is based on TM24-13 recommendation which is calculated as: EVE = Photopic lumen x (SP ratio)^{0.8}


Spectral Power Distribution



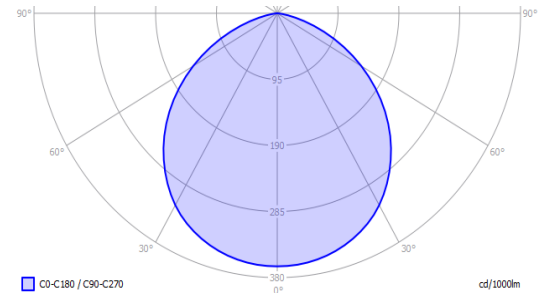
Color Rendering Index (CRI)

R1= 98.3	R8= 90.4	R15= 96.2
R2= 99.3	R9= 77.2	
R3= 97.2	R10= 95	Ra (mean value of R1 - R8)
R4= 96.5	R11= 96.8	96
R5= 96.2	R12= 75.4	
R6= 95.5	R13= 99.2	
R7= 94.4	R14= 97.2	

Isolux Table

m.	Ø 50%		C0-180: 111° C90-270: 111°	E (lux)	Luminaire Efficacy 111 (lumen per Watt)
	C0-180	C90-270			
1	2.9	2.9		5863	Half-peak diam C0-180 2.93 x diameter(m)
1.5	4.4	4.4		2606	Half-peak diam C90-270 2.93 x diameter(m)
2	5.9	5.9		1466	Illuminance 5863 / distance² (lux)
2.5	7.3	7.3		938	Total Output 16120 (lumen)
3	8.8	8.8		651	
3.5	10.3	10.3		479	
4	11.7	11.7	366		

Polar Curve



Product Ordering Codes:

Ordering Code	Product Descriptions
HBU10UA00X	Ellipz LED Highbay Light HBU1 100W CCT Reflector
HBU10UF00X	Ellipz LED Highbay Light HBU1 150W CCT Reflector
HBU10UG00X	Ellipz LED Highbay Light HBU1 180W CCT Reflector
HBU20UA00X	Ellipz LED Highbay Light HBU2 100W CCT
HBU20UF00X	Ellipz LED Highbay Light HBU2 150W CCT
HBU20UG00X	Ellipz LED Highbay Light HBU2 180W CCT

X: 4=4000K / C=5700K

Logistics Information:

HBU 100W	Single Carton	Carton Box	Pallet	20 ft Container (non-palletized)	40 ft Container (non-palletized)
Quantity (pcs)	NA	tbd	tbd	tbd	tbd
Dimensions (mm)	NA	tbd	tbd	tbd	tbd
Gross Weight (kg)	NA	tbd	tbd	tbd	tbd

HBU 150W	Single Carton	Carton Box	Pallet	20 ft Container (non-palletized)	40 ft Container (non-palletized)
Quantity (pcs)	NA	1	NA	990	2040
Dimensions (mm)	NA	410*410*170	NA	5890*2340*2388	1198*2340*2388
Gross Weight (kg)	NA	5.35	NA	5296.5	10914

HBU 180W	Single Carton	Carton Box	Pallet	20 ft Container (non-palletized)	40 ft Container (non-palletized)
Quantity (pcs)	NA	tbd	tbd	tbd	tbd
Dimensions (mm)	NA	tbd	tbd	tbd	tbd
Gross Weight (kg)	NA	tbd	tbd	tbd	tbd