

## Ellipz LED Flood Light – FLU Series

- Comes with 3 power ranges of **30W, 80W** and **150W**
- Integrated with **Ellipz Spectral Enhanced Photopic** LED modules
- Highest **S/P ratio** (up to 2.1) in the industry provides best perceived brightness (Equivalent Visual Efficiency)
- Extremely efficient **100lm/W**
- Very good color rendition (**Ra**) **upto 96**, and saturated red (**R9**) for best color sensation and color recognition
- **IP66** weatherproof protection
- **Optional dimming** with suitable dimmable drivers

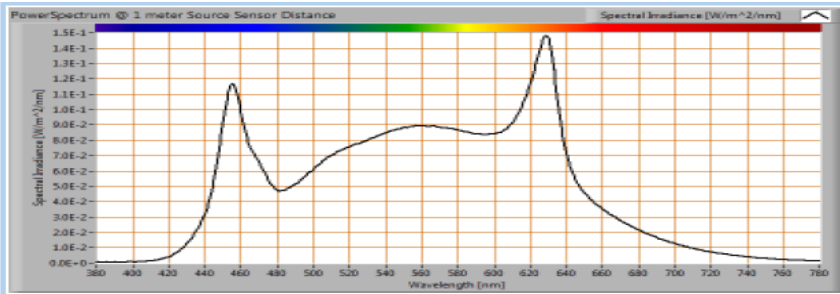


### Ellipz LED Flood Light - FLU

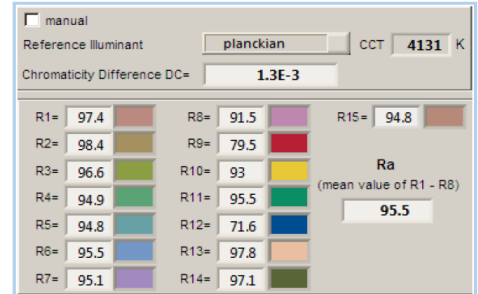
Ordering Code (Lamp only)	FLU10U300X	FLU10U800X	FLU10UF00X
Correlated Color Temperature, CCT	X: 4=4000K / C=5700K		
<b>Electrical Specs</b>			
Rated Voltage (Vac)	220~240	220~240	220~240
Rated Line Current (A, @230Vac)	0.14	0.36	0.66
Rated System Power (W)	28	80	150
Supply Voltage Range (Vac)	220~240	100~277	100~277
Line Frequency (Hz)	50/60	50/60	50/60
PF / THD (@230Vac)	0.90 / 20%	0.98 / 10%	0.99 / 10%
<b>Optical Specs</b>			
CCT (K)	4000 / 5700	4000 / 5700	4000 / 5700
Lumen Output (lm, @5000K)	2,800	8,000	15,000
Photopic Efficacy (lm/W)	100	100	100
Color Rendering Index (Ra)	Upto 96	Upto 96	Upto 96
SP ratio	1.8 / 2.1	1.8 / 2.1	1.8 / 2.1
EVE (pupil lumen, @5700K)**	5,070	14,480	27,155
EVE Efficacy (pupil lm/W)	181	181	181
Beam Angle (@ 50% I-max)	105°	105°	105°
Flicker index	<0.005	<0.005	<0.005
Photon current, umol/s	-	120.3	220.5
PAR value, umol/s/m <sup>2</sup> (@ 1m dist.)	-	32.3	56.6
PAR photon current, umol/s	-	77.3	137.9
<b>Environmental Spec</b>			
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
<b>Mechanical Specs</b>			
Housing	Casted aluminium	Casted aluminium	Casted aluminium
Front cover	Tempered glass	Tempered glass	Tempered glass
Dimension (mm)	230 x 195 x 50	345 x 297 x 80	423 x 325 x 95
Weight (kg)	1.3	3.7	6.1
IP Rating	IP66	IP66	IP66
<b>Approbation</b>			
Certification	CE	CE	CE
RoHS 2.0	Yes	Yes	Yes

\*\* EVE (Equivalent Visual Efficiency) is based on TM24-13 recommendation which is calculated as:  $EVE = \text{Photopic lumen} \times (\text{SP ratio})^{0.8}$


### Spectral Power Distribution (150W 4000K CCT)



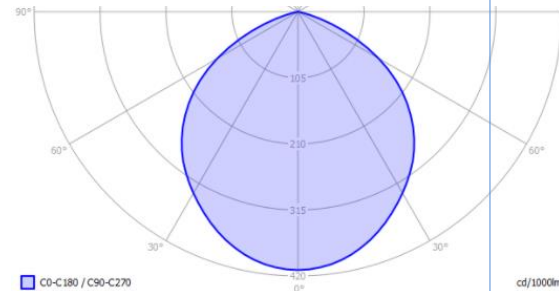
### Color Rendering Index (CRI)



### Isolux Table (150W)

m.	Ø 50%		C0-180: 106° C90-270: 106°	E (lux)	Luminaire Efficacy 102 (lumen per Watt)
	C0-180	C90-270			
2	5.3	5.3		1544	Half-peak diam C0-180 5.32 x diameter(m)
3	8	8		686	Half-peak diam C90-270 5.32 x diameter(m)
4	10.6	10.6		386	Illuminance 6174 / distance² (lux)
5	13.3	13.3		247	Total Output 15043 (lumen)
6	15.9	15.9		172	
7	18.6	18.6		126	
8	21.3	21.3		96	

### Polar Curve



### Product Ordering Codes:

Ordering Code	Product Descriptions
FLU10U300X	Ellipz LED Flood Light FLU 30W CCT
FLU10U800X	Ellipz LED Flood Light FLU 80W CCT
FLU10UF00X	Ellipz LED Flood Light FLU 150W CCT

X: 4=4000K / C=5700K

### Logistics Information:

FLU 30W	Single Carton	Carton Box	Pallet	20 ft Container (non-palletized)	40 ft Container (non-palletized)
Quantity (pcs)	1	16	tbd	tbd	tbd
Dimensions (mm)	235*200*56	490*220*470	tbd	tbd	tbd
Gross Weight (kg)	1.5	24	tbd	tbd	tbd

FLU 80W	Single Carton	Carton Box	Pallet	20 ft Container (non-palletized)	40 ft Container (non-palletized)
Quantity (pcs)	1	NA	NA	1930	3930
Dimensions (mm)	410*310*125	NA	NA	5890*2340*2388	1198*2340*2388
Gross Weight (kg)	4.15	NA	NA	80010	16310

FLU 150W	Single Carton	Carton Box	Pallet	20 ft Container (non-palletized)	40 ft Container (non-palletized)
Quantity (pcs)	1	NA	NA	1340	2750
Dimensions (mm)	470*330*150	NA	NA	5890*2340*2388	1198*2340*2388
Gross Weight (kg)	6.6	NA	NA	8844	18150