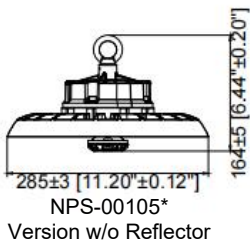**PLT**

UL CERTIFIED LUMINAIRE

PLT-12980 - 100W, 4000K, w/ Reflector & Sensor Receptacle
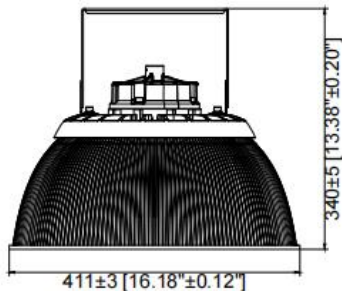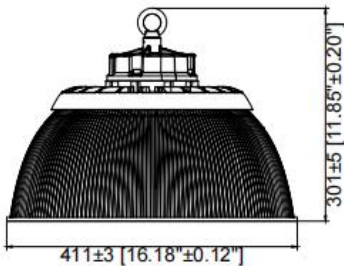- LED L70 Life Hours - 140,000

DIMENSIONS
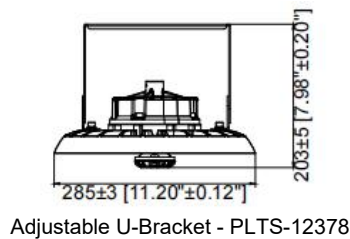
ADVANTAGE

- ➢ UL cUL
- ➢ Lumileds Chip, high CRI.
- ➢ Input voltage 120-277VAC.
- ➢ Output constant current can be adjusted through output cable with 0-10V.
- ➢ No UV or IR in the beam.
- ➢ Easy to install and operate.
- ➢ Energy saving, long lifespan.
- ➢ Light is soft and uniform.
- ➢ Instant start, NO flickering, NO humming.
- ➢ Green and eco-friendly without mercury.

Pendent

164±5 [6.44"±0.20"]
285±3 [11.20"±0.12"]
NPS-00105*
Version w/o Reflector

301±5 [11.85"±0.20"]
411±3 [16.18"±0.12"]

Surface-mounted

203±5 [7.98"±0.20"]
285±3 [11.20"±0.12"]
Adjustable U-Bracket - PLTS-12378

340±5 [13.38"±0.20"]
411±3 [16.18"±0.12"]

*Special order item. Please call 1-800-624-4488 for more information.

APPLICATION

- ➢ Warehouse, factory and workshops;
- ➢ Highway toll station and gas station;
- ➢ Exhibition hall;
- ➢ Gymnasium and supermarkets, etc.

SPECIFICATIONS

OPTICAL	Input Power (Tolerance : ±10%)	100W				
	Color Temperature	3500K*	4000K	4500K**	5000K***	5700K****
	Lumen (Tolerance : ±10%)	14300LM	14400LM	14500LM	14600LM	14700LM
	Efficacy (Tolerance : ±3%)	143LM/W	144LM/W	145LM/W	146LM/W	147LM/W
	CRI	>80				
	Color Consistency	＜6 Steps (or ＜6 SDCM)				
	UGR	＜28 (X=4H, Y=8H; S/H=1; Reflectances: 70%/50%/20%)				
	Diffuser Type	PC Lens				
	Beam Angle (50%) (Tolerance : ±15%)	90 Degree				
ELECTRICAL	Input Voltage and Frequency	120-277VAC, 50/60Hz				
	PF (Tolerance : -3%)	≥0.9				
	THD (Tolerance : +5%)	≤20%				
	Flicker Percent	＜5%				
	Driver Brand	LiFUD				
	Driver Model	LF-FHB100YAⅣ				
	Driver Surge protection	L/N- PE: 6kV, L-N: 6kV				
	Dimming	0-10V dimming standard				
	Sensor type	Daylight Sensor[1], Occupancy Sensor[2], Multifunction Sensor[3]				
	Optional Accessory	Motion microwave Sensor[4], Motion PIR Sensor[5] Surge-protective Device[6]				
MATERIALS	LED Brand	Lumileds				
	LED Type	SMD2835				
	LED QTY	160PCS				
	Housing	Die-cast aluminum				
	Housing Color	Black (White or Customized*****)				
	Waterproof Rating	WET（IP65）				
OTHERS	Operating Temperature	Without Motion Sensor: -40℃ TO 50℃				
		With Motion Sensor: -30℃ TO 50℃				
	Storage Temperature	-40℃ TO 80℃				
	Operating Humidity	20％ - 90％ RH				
	Storage Humidity	10％ - 95％ RH				
	Warranty	5 years				

PACKAGE

Lamp Type	Carton Size	Qty / Carton	Net Weight / Carton	Gross Weight / Carton
Pendent With Reflector	420*420*240mm [16.54*16.54*9.45 inch]	1 PC	2.33KG [5.14 LBS]	3.4KG [7.50 LBS]
Surface-mounted With Reflector	420*420*240mm [16.54*16.54*9.45 inch]	1 PC	2.93 KG [6.46 LBS]	4.0KG [8.82 LBS]

Tolerance of Carton Size: ±15 mm[±0.59 inch], Tolerance of Weight: ±10%.

Alternate Versions:
*3500K Version - NPS-00106
**4500K Version - NPS-00107
***5000K Version - NPS-00108
****5700K Version - NPS-00109

Special order items. Please call 1-800-624-4488 for more information.

*****Multiple finish options available via Special Order.
Please call 1-800-624-4488 for more information.

Optional Accessories:
[1]Daylight Sensor - NPS-00014^
[2]Occupancy Sensor & Photocell - PLT-12844
[3]Multifunction Sensor - NPS-00016^
[4]Motion Microwave Sensor - NPS-00041^
[5]Motion PIR Sensor - NPS-00042^
[6]Surge protective Device - NPS-00029^
PLT-12281 - Motion Sensor Remote (for use w/ PLT-12844)

^Special order item. Please call 1-800-624-4488 for more information.

LIGHT DISTRIBUTION TESTING PARAMETERS

Luminaire Property

Luminaire Manufacturer:
Luminaire Category:
Lamp Catalog:
Number of Lamps:
Luminous Length (mm): -410
Luminous Height (mm): 157
Current: 0.820 A
Power Factor: 0.996

Luminaire Description:
Lamp Description:
Lumens per Lamp:
Luminous Width (mm): -410
Voltage: 120.0 V
Power: 97.95 W

Photometric Results

CIE Class: Direct
Measurement Flux: 14142.3 lm
Downward Ratio: 99%
Horizontal Diffuse Angle(10%,50%): H110.2,H82.8
Vertical Diffuse Angle(10%,50%): V109.9,V82.8
Luminaire Efficacy Rating (LER): 144.43
Max. Intensity: 8024.78 cd
S/MH(C0/C180): 1.33

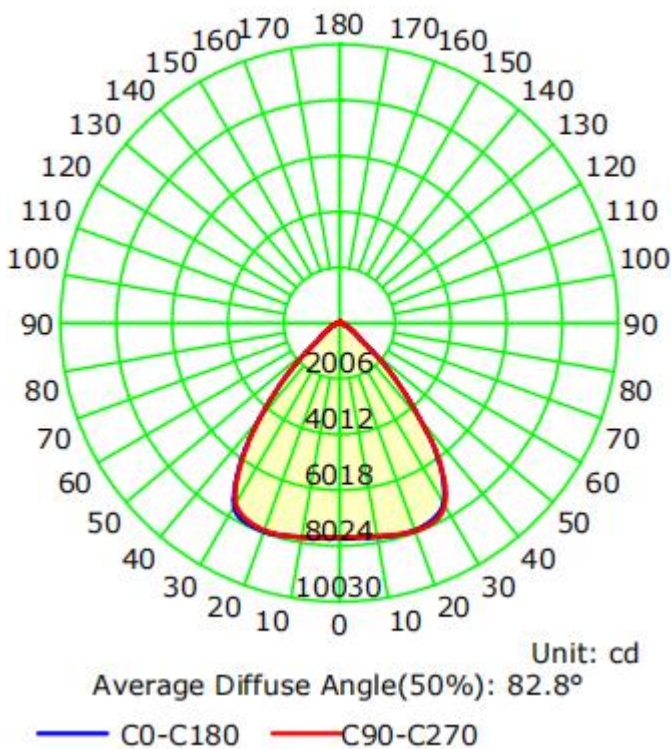Total Rated Lamp Lumens: 14142.3 lm
Efficiency: 100%
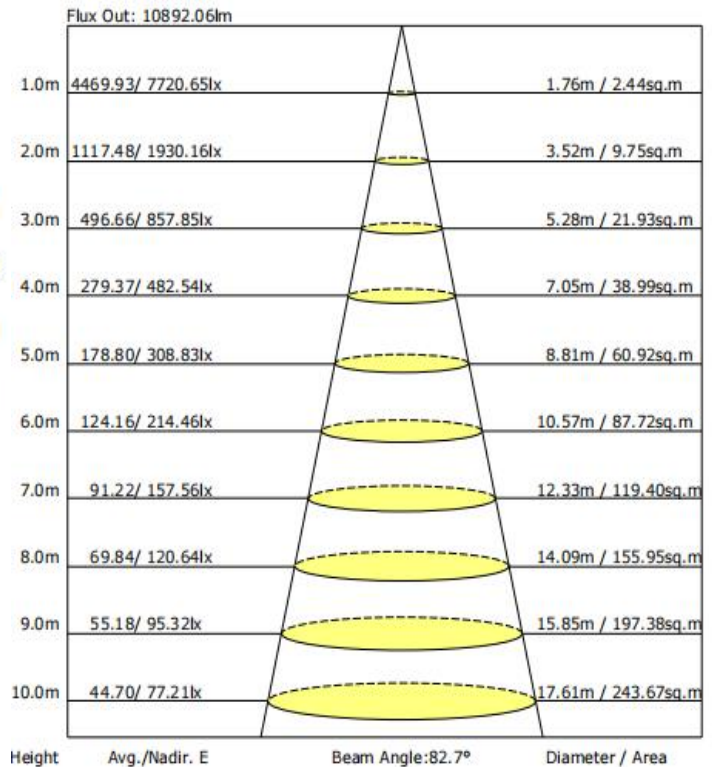Upward Ratio: 1%

C0r0 Intensity: 7720.65 cd
Pos of Max. Intensity: H157.5 V21
S/MH(C90/C270): 1.33

Luminous Intensity Distribution Curve

Unit: cd

Average Diffuse Angle(50%): 82.8°

—— C0-C180   —— C90-C270

The Average Illuminance Effective Figure

Flux Out: 10892.06lm

Height	Avg./Nadir. E	Beam Angle:82.7°	Diameter / Area
1.0m	4469.93/ 7720.65lx		1.76m / 2.44sq.m
2.0m	1117.48/ 1930.16lx		3.52m / 9.75sq.m
3.0m	496.66/ 857.85lx		5.28m / 21.93sq.m
4.0m	279.37/ 482.54lx		7.05m / 38.99sq.m
5.0m	178.80/ 308.83lx		8.81m / 60.92sq.m
6.0m	124.16/ 214.46lx		10.57m / 87.72sq.m
7.0m	91.22/ 157.56lx		12.33m / 119.40sq.m
8.0m	69.84/ 120.64lx		14.09m / 155.95sq.m
9.0m	55.18/ 95.32lx		15.85m / 197.38sq.m
10.0m	44.70/ 77.21lx		17.61m / 243.67sq.m

NOTICE FOR USER

- Please turn off power before installation or maintenance.

- Verify that supply voltage is correct by comparing it with the luminaire label information. Please make sure the wiring is insulated.

- Installation, service, and maintenance of luminaries should be performed by a qualified licensed electrician.

TROUBLESHOOTING

Problem	Solution
Flickering Light	Turn off the power, then turn on again after 3 minutes. If the light continues to flicker, call a licensed electrician.
Fixture not turning on	Check the electrical connection.