UL CERTIFIED

DLC LISTED PREMIUM™

GREENTEK ENERGY SYSTEMS, LLC
www.greentekes.com

P/N: GT-HB8-100WBT2A1-abcdK-N

Note:

GT= Company name

HB8 = Product series, LED High Bay Light

100W = Rating Power

B= LED manufacturer, Lumileds2835.

T2 = 90° PC lens;

A1=Version number

"a"can be any two letters to represent lamp colors; BH=Black
　WH=White, or Customized;

"b" can be 10SP, 20SP　for Surge-Protective Device
　provided or Blank for none;

"c" can be MS, PS for Motion Sensor, PIR sensor provided or blank for none
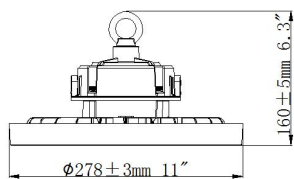
"dK"can be any two digits to represent CCT.
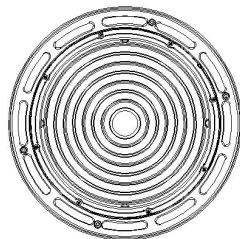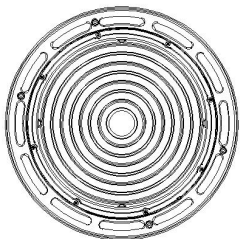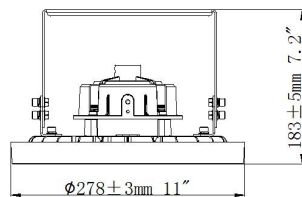　40K=4000K,45K=4500K,50K=5000K,57K=5700K.

N=stand for Driver manufacturer

DIMENSIONS

Pendent　　**Surface-mounted**

ADVANTAGE

➢ UL　DLC-V5.1(Premium) certificate.

➢ Input voltage 120-277VAC.

➢ Output constant current lever 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, safe to eyes.

➢ Instant start.

➢ Green and eco-friendly without mercury.

APPLICATION

➢ Warehouse, factory and workshops;

➢ Highway toll station and gas station;

➢ Exhibition hall;
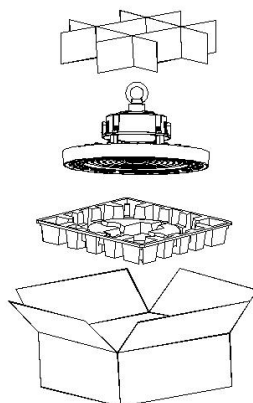
➢ Gymnasium and supermarkets, etc.

SPECIFICATIONS

OPTICAL	Input Power (Tolerance : ±10%)	100W			
	Color Temperature	4000K	4500K	5000K	5700K
	Lumen (Tolerance : -10%)	13700 LM	13800LM	13900LM	14100LM
	Efficacy (Tolerance : -3%)	137LM/W	138LM/W	139LM/W	141LM/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	≤50%			
	Driver Brand	HBE Brand Driver (0-10V dimming)			
	Driver Model	HB-100RM-130D			
	Driver Surge protection	L/N-PE: 6kV, L-N: 6kV			
	Dimming	0-10V dimming standard			
	Optional Accessory	Motion Sensor, Surge-protective Device			
MATERIALS	LED Brand	Lumileds			
	LED Type	SMD2835			
	LED QTY	320PCS			
	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

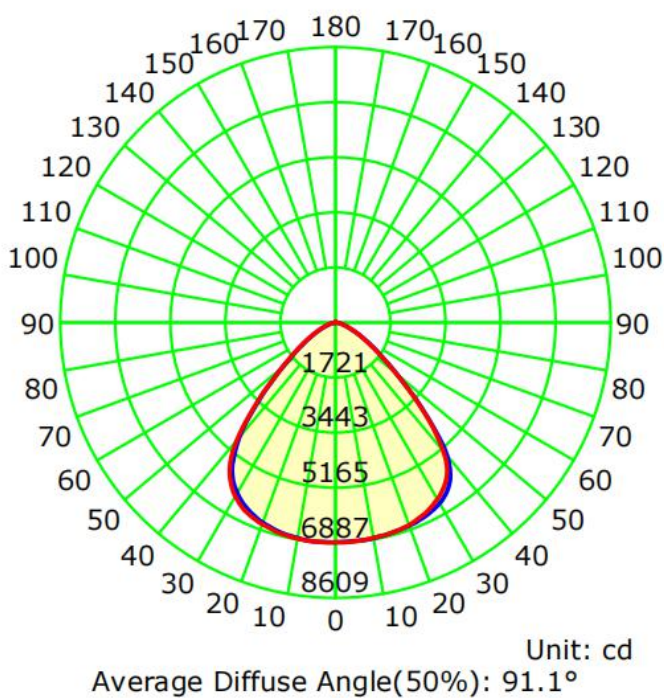| Lamp Type	Carton Size	Qty / Carton	Net Weight / Carton	Gross Weight / Carton
Pendent	350*350*185mm	1 PC	2.4KG	3.2KG
Surface-mounted	350*350*185mm	1 PC	3.0 KG	3.9 KG

Tolerance of Carton Size: ±15 MM, Tolerance of Weight: ±10%.
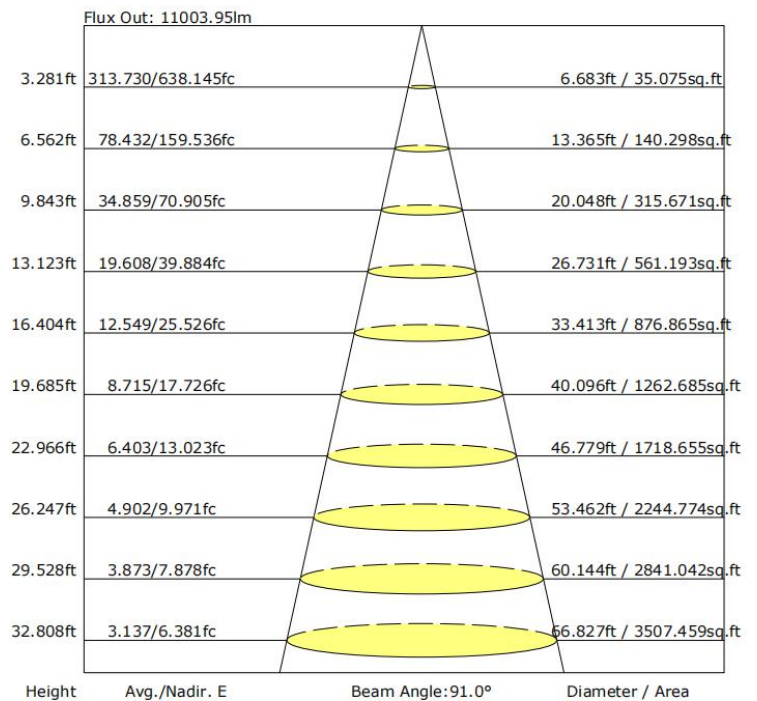
LIGHT DISTRIBUTION TESTING PARAMETERS

Photometric Results

CIE Class: Direct
Measurement Flux: 14403.6 lm
Downward Ratio: 100%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 127.5, 128.2, 127.7, 127.8
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 91.0, 91.2, 91.2, 91.3
Luminaire Efficacy Rating (LER): 140.30
Max. Intensity: 6887.31 cd
S/MH(C0/C180): 1.35

Total Rated Lamp Lumens: 14403.6 lm
Efficiency: 100%
Upward Ratio: 0%

C0r0 Intensity: 6868.94 cd
Pos of Max. Intensity: H315 V4
S/MH(C90/C270): 1.35

Luminous Intensity Distribution Curve

Unit: cd

Average Diffuse Angle(50%): 91.1°

The Average Illuminance Effective Figure

Flux Out: 11003.95lm

Height	Avg./Nadir. E	Beam Angle:91.0°	Diameter / Area
3.281ft	313.730/638.145fc		6.683ft / 35.075sq.ft
6.562ft	78.432/159.536fc		13.365ft / 140.298sq.ft
9.843ft	34.859/70.905fc		20.048ft / 315.671sq.ft
13.123ft	19.608/39.884fc		26.731ft / 561.193sq.ft
16.404ft	12.549/25.526fc		33.413ft / 876.865sq.ft
19.685ft	8.715/17.726fc		40.096ft / 1262.685sq.ft
22.966ft	6.403/13.023fc		46.779ft / 1718.655sq.ft
26.247ft	4.902/9.971fc		53.462ft / 2244.774sq.ft
29.528ft	3.873/7.878fc		60.144ft / 2841.042sq.ft
32.808ft	3.137/6.381fc		66.827ft / 3507.459sq.ft

NOTICE FOR USER

➢ Please turn off power before install or change assembly parts.
➢ The input voltage and lamps should be matched, after connecting the power line,
   Please make sure the wiring section is insulated.
➢ No-professionals, must not install and disassemble the lamps.

TROUBLE SHOOTINGS

Troubles	Check points
Flickering of the light	Turn off the power and turn on again in 3 minutes. If same phenomena occur, then call agencies.
Out of working	Please check the connection.