ZARA LED

UL CERTIFIED® SAFETY US·CA E495046 LUMINAIRE
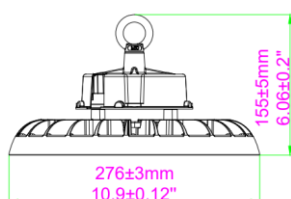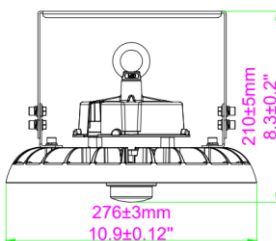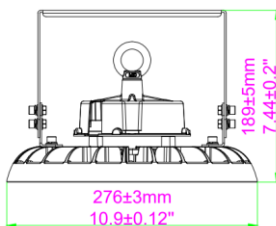
P/N: AST-HB23-150WS1XYA1-abcdWSg

Note:

AST= Company name;

HB23 = Product series, LED High Bay Light;

150W= Rating Power;

S1 =Driver manufacturer, Sosen CNL-E series;

"X" can be any alphabet for manufacturer of LED;

"Y"can be "T1-T9""CP"for Diffuser type;

A1= Version number;

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

"b" can be "S" or "EM" or blank for Surge-protective Device
provided or Emergency Driver or not;

"c" can be "M"or blank for Motion mircowave Sensor,provided
    or Motion PIR sensor or not

"d" can be any digits for CCT, 35-65K(3500K-6500K)

"W"Stand for wattage tuanble

"S"stand for color untunable

"g" can be "RP", "RA" or blank for Thermoplastic shade,
aluminum shade provided or not.

DIMENSIONS

Pendent

155±5mm 6.06±0.2"
276±3mm 10.9±0.12"

176±5mm 6.9±0.2"
276±3mm 10.9±0.12"

Surface-mounted

189±5mm 7.44±0.2"
276±3mm 10.9±0.12"

210±5mm 8.3±0.2"
276±3mm 10.9±0.12"

ADVANTAGE

➢ UL cUL certificate.

➢ Lumileds or Samsung Chip, high CRI.

➢ 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, NO humming.

➢ 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%)	150W (wattage adjustable 25%-100% or 150W/100W/80W)
	Color Temperature	3500K-5700K
	Lumen (Tolerance : -10%)	21700-23200LM
	Efficacy (Tolerance : -3%)	145-155LM/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	Sosen Driver (0-10V dimming)
	Driver Model	SS-150CNL-E260BHB
	Driver Surge protection	L/N-PE: 6kV, L-N: 6kV
	Dimming	0-10V dimming standard(off)
	Optional Accessory	Motion mircowave Sensor, PIR motion sensor ， Surge-protective Device,Wire guard,Reflector shield
MATERIALS	LED Brand	Lumileds
	LED Type	SMD2835
	LED QTY	400PCS
	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	295*295*140MM[11.61*11.61*5.51inch]	1PCS	2.1KG[4.63LBS]	2.5KG[5.51LBS]
Surface-mounted	295*295*140MM[11.61*11.61*5.51inch]	1PCS	2.5KG[5.51LBS]	2.9KG[6.39LBS]

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

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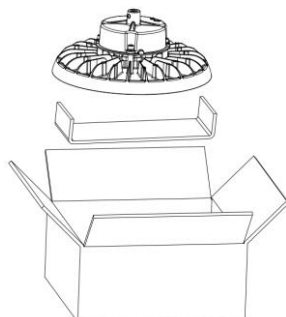
LIGHT DISTRIBUTION TESTING PARAMETERS

Luminaire Property

Luminaire Manufacturer:
Voltage: 121.0 V
Power: 154.30 W

Current: 1.279 A
Power Factor: 0.998

Photometric Results

IES Classification: Type I
Total Rated Lamp Lumens: 23633.8 lm
Efficiency: 100%
Upward Ratio: 1%
Central Intensity: 12990.39 cd
Pos of Max. Intensity: H67.5 V17
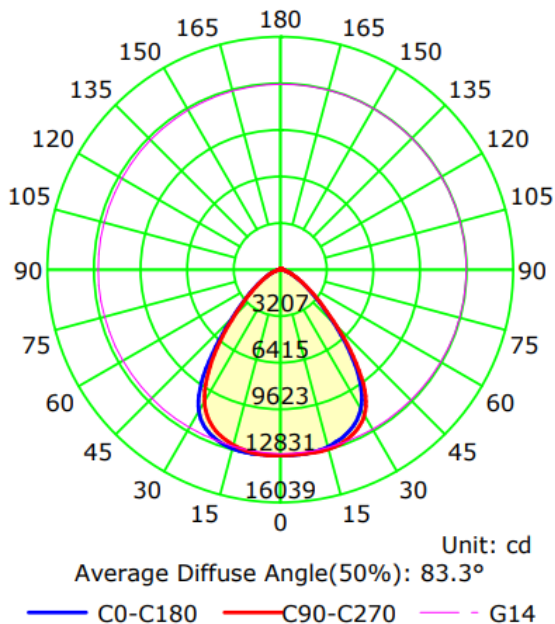
Longitudinal Classification: Very Short
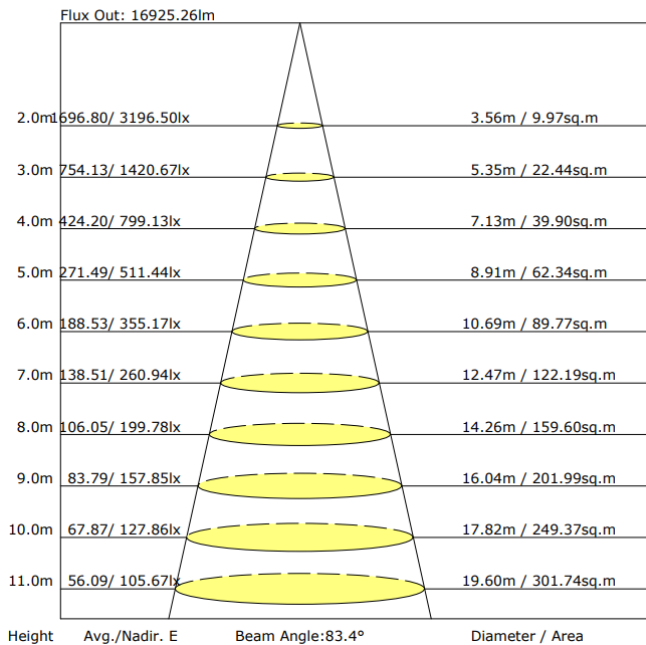Measurement Flux: 23633.8 lm
Downward Ratio: 99%
Luminaire Efficacy Rating (LER): 153.22
Max. Intensity: 13101.65 cd

Luminous Intensity Distribution Curve

Unit: cd
Average Diffuse Angle(50%): 83.3°

— C0-C180   — C90-C270   — · G14

The Average Illuminance Effective Figure

Flux Out: 16925.26lm

Height	Avg./Nadir. E	Beam Angle:83.4°	Diameter / Area
2.0m	1696.80/ 3196.50lx		3.56m / 9.97sq.m
3.0m	754.13/ 1420.67lx		5.35m / 22.44sq.m
4.0m	424.20/ 799.13lx		7.13m / 39.90sq.m
5.0m	271.49/ 511.44lx		8.91m / 62.34sq.m
6.0m	188.53/ 355.17lx		10.69m / 89.77sq.m
7.0m	138.51/ 260.94lx		12.47m / 122.19sq.m
8.0m	106.05/ 199.78lx		14.26m / 159.60sq.m
9.0m	83.79/ 157.85lx		16.04m / 201.99sq.m
10.0m	67.87/ 127.86lx		17.82m / 249.37sq.m
11.0m	56.09/ 105.67lx		19.60m / 301.74sq.m

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.