NORTH STAR™

LED Round UFO High Bay

Beyond LED's NorthStar LED Round UFO High Bay Light is one of the most feature rich products of 2022. This product is designed to maximizes light output with efficacy up to 138 Lumens per Watt. NorthStar is built to last with standard 6KV surge protection, 45°C ambient temperature rating, and IP65 rating for elimination of dust, moisture, and airborne contaminants. The NorthStar High Bay can be integrated with feedback control systems. The unique easy connect driver to optical assembly interface allows quick and easy maintenance for applications including warehousing, gymnasiums, manufacturing, and outdoor canopies.

LED UFO HIGH BAY
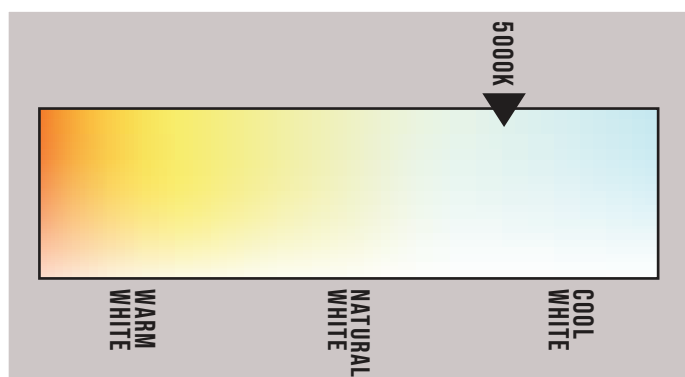
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Product Features

- Operating temperature: -40°C to 50°C
- Up to 138 Lumens per Watt efficacy
- 0-10V Dimming capability
- Plug and play motion sensor
- Several optional mounting options
- Integral LED driver, eliminates the need for an external driver or ballast
- Complies with UL safety regulations and is DLC listed
- This product is IP65 rated, therefore, it is suited for both indoor and outdoor applications

- Spotless soft light without shadow
- Optional Emergency backup
- Lumileds or Samsung chip with high CRI
- Universal 120-277Vac / 480Vac optional
- No UV or IR in the beam
- Environment friendly with no mercury
- Easy to install and operate, with instant and no humming
- Energy saving with long lifespan

SKU #	Model #	Watt	Lumens	CCT	Housing	Input Voltage	Dimming	Certifications
154230	BLT-HB11-100WH2BT2A1-BH50	100W	14681Lm	5000K	Black	120V-277V	0-10V	UL & DLC
155456	BLT-HB11-150WH2BT2A1-BH50	150W	20893Lm	5000K	Black	120V-277V	0-10V	UL & DLC
154231	BLT-HB11-240WH2BT2A1-BH50	240W	33747Lm	5000K	Black	120V-277V	0-10V	UL & DLC

Correlated Color Temperature (CCT)

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SKU Number 154230	Specifications	
Parameter	**Description**	**Value**
General Performance	Model #	BLT-HB11-100WH2BT2A1-BH50
	Wattage	100W
	Lumen	14681LM
	Lumen Efficacy	Up to 143LM/W
	Color Temperature	5000K
	CRI (Ra)	>80
	Beam Angle	90° Degree
	Diffuser Type	PC Lens
Electrical	Input Voltage	120-277Vac
	Frequency	50/60Hz
	Dimming	0-10V
	Power Factor	≥0.9
	THD (Tolerance)	≤20%
	Driver Surge Protection	L/N-PE: 6kV, L-N: 4kV
	Flicker Percent	<5%
Physical	Operating Temperature	-40°C To 50°C (Without Sensor)
	Operating Temperature	-30°C To 50°C (With Sensor)
	Operating Humidity	20%-90%RH
	Storage Temperature	-40°C To 80°C
	Storage Humidity	10% - 95% RH
	LED Brand	Lumileds
	LED Type	SMD 2835
	LED QTY	320 PCS
	Housing	Die-Cast Aluminium
	Housing Color	Black
Qualification	IP Rating	WET (IP65)
	Warranty	5 years warranty with 24/7 operating hours Luminaire lifetime at 25ºC

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SKU Number 155456   Specifications

Parameter	Description	Value
General Performance	Model #	BLT-HB11-150WH2BT2A1-BH50
	Wattage	150W
	Lumen	20893LM
	Lumen Efficacy	Up to 138.4LM/W
	Color Temperature	5000K
	CRI (Ra)	>80
	Beam Angle	90° Degree
	Diffuser Type	PC Lens
Electrical	Input Voltage	120-277Vac
	Frequency	50/60Hz
	Dimming	0-10V
	Power Factor	≥0.9
	THD (Tolerance)	≤20%
	Driver Surge Protection	L/N-PE: 6kV, L-N: 4kV
	Flicker Percent	<5%
Physical	Operating Temperature	-40°C To 50°C (Without Sensor)
	Operating Temperature	-30°C To 50°C (With Sensor)
	Operating Humidity	20%-90%RH
	Storage Temperature	-40°C To 80°C
	Storage Humidity	10% - 95% RH
	LED Brand	Lumileds
	LED Type	SMD 2835
	LED QTY	440 PCS
	Housing	Die-Cast Aluminium
	Housing Color	Black
Qualification	IP Rating	WET (IP65)
	Warranty	5 years warranty with 24/7 operating hours Luminaire lifetime at 25ºC

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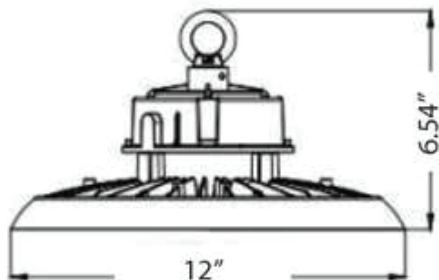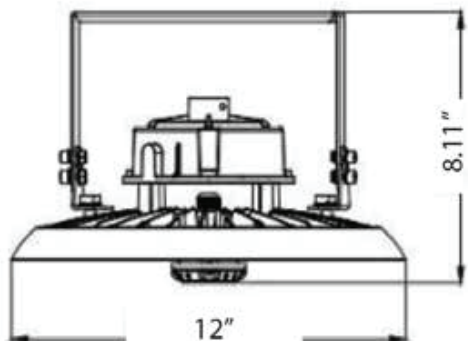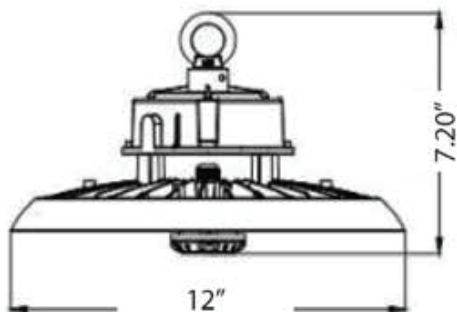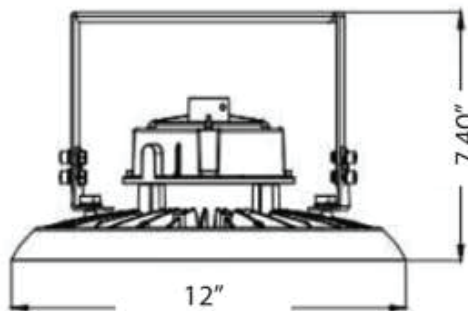| SKU Number 154231	Specifications	
Parameter	**Description**	**Value**
General Performance	Model #	BLT-HB11-240WH2BT2A1-BH50
	Wattage	240W
	Lumen	33747LM
	Lumen Efficacy	Up to 140LM/W
	Color Temperature	5000K
	CRI (Ra)	>80
	Beam Angle	90° Degree
	Diffuser Type	PC Lens
Electrical	Input Voltage	120-277Vac
	Frequency	50/60Hz
	Dimming	0-10V
	Power Factor	≥0.9
	THD (Tolerance)	≤20%
	Driver Surge Protection	L/N-PE: 6kV, L-N: 4kV
	Flicker Percent	<5%
Physical	Operating Temperature	-40°C To 50°C (Without Sensor)
	Operating Temperature	-30°C To 50°C (With Sensor)
	Operating Humidity	20%-90%RH
	Storage Temperature	-40°C To 80°C
	Storage Humidity	10% - 95% RH
	LED Brand	Lumileds
	LED Type	SMD 2835
	LED QTY	720 PCS
	Housing	Die-Cast Aluminium
	Housing Color	Black
Qualification	IP Rating	WET (IP65)
	Warranty	5 years warranty with 24/7 operating hours Luminaire lifetime at 25ºC

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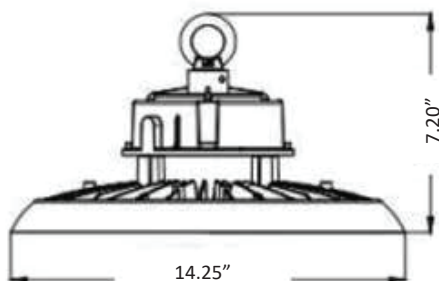
LED Round UFO High Bay

Dimensions 150W

Pendent

6.54"

12"

7.20"

12"

Surface

7.40"

12"

8.11"

12"

Dimensions 240W

Pendent

7.20"

14.25"

7.79"

14.25"

Surface

8.50"

14.25"

9.25"

14.25"

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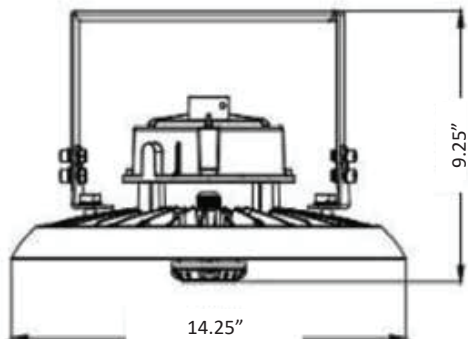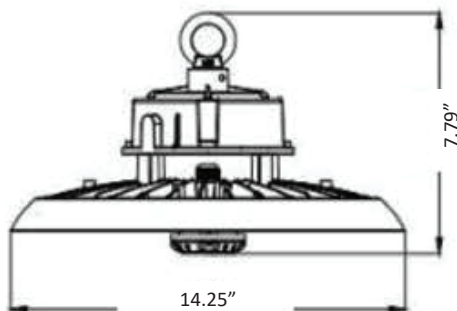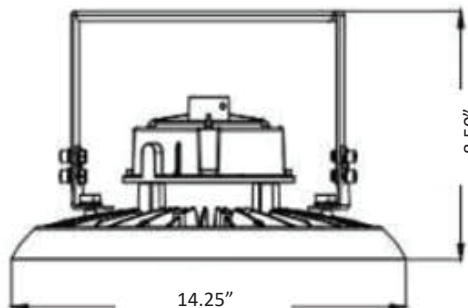
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LED Round UFO High Bay

Photometric Data for SKU Number 154230

Luminous Intensity Distribution Curve	Illuminance at a Distance

Luminaire Property

Luminaire Manufacturer:
Luminaire Category:
Lamp Catalog:
Number of Lamps:
Luminous Length (mm):
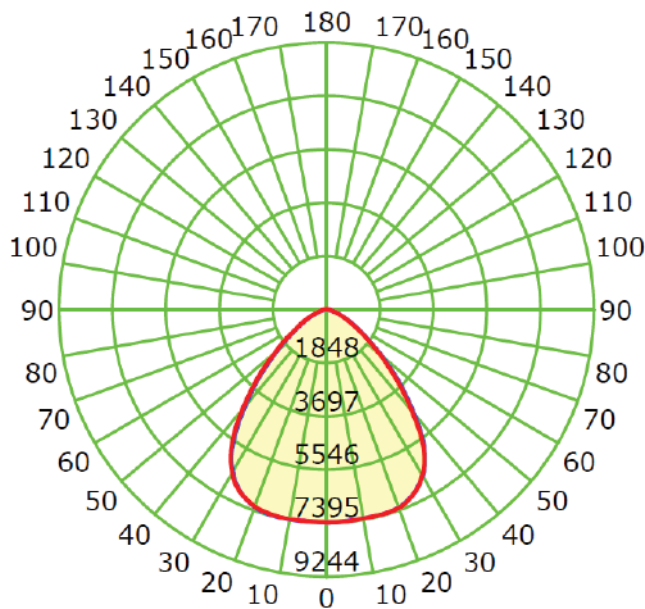Luminous Height (mm):
Current: 0.858 A
Power Factor: 0.995

Luminaire Description:
Lamp Description:
Lumens per Lamp:
Luminous Width (mm):
Voltage: 120.0 V
Power: 102.40 W

Photometric Results

CIE Class: Direct
Measurement Flux: 14796.1 lm
Downward Ratio: 100%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 128.4, 128.7, 128.5, 129.0
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 87.4, 87.4, 87.9, 87.4
Luminaire Efficacy Rating (LER): 144.54
Max. Intensity: 7395.53 cd
S/MH(C0/C180): 1.28

Total Rated Lamp Lumens: 14796.1 lm
Efficiency: 100%
Upward Ratio: 0%
C0r0 Intensity: 7382.59 cd
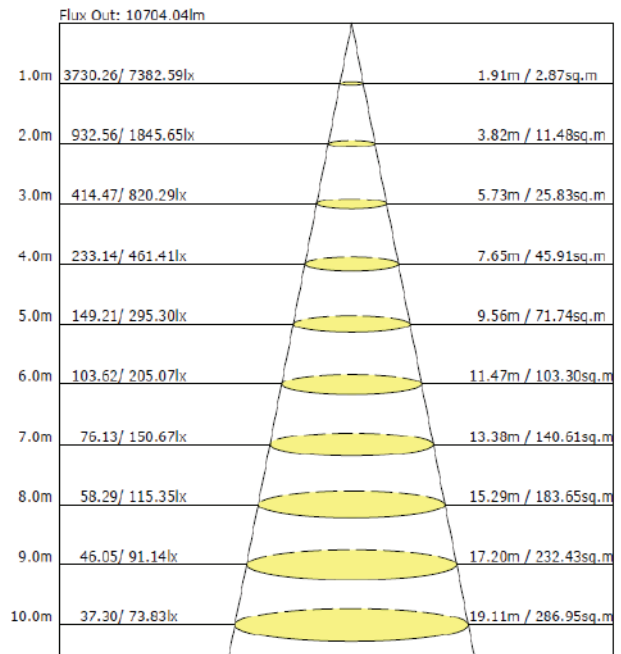Pos of Max. Intensity: H337.5 V6
S/MH(C90/C270): 1.28

Luminous Intensity Distribution Curve

Average Diffuse Angle(50%): 87.4°

Unit: cd

—— C0-C180   —— C90-C270

The Average Illuminance Effective Figure

Flux Out: 10704.04lm

Height	Avg./Nadir. E	Beam Angle:87.4°	Diameter / Area
1.0m	3730.26/ 7382.59lx		1.91m / 2.87sq.m
2.0m	932.56/ 1845.65lx		3.82m / 11.48sq.m
3.0m	414.47/ 820.29lx		5.73m / 25.83sq.m
4.0m	233.14/ 461.41lx		7.65m / 45.91sq.m
5.0m	149.21/ 295.30lx		9.56m / 71.74sq.m
6.0m	103.62/ 205.07lx		11.47m / 103.30sq.m
7.0m	76.13/ 150.67lx		13.38m / 140.61sq.m
8.0m	58.29/ 115.35lx		15.29m / 183.65sq.m
9.0m	46.05/ 91.14lx		17.20m / 232.43sq.m
10.0m	37.30/ 73.83lx		19.11m / 286.95sq.m

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Photometric Data for SKU Number 155456

Luminous Intensity Distribution Curve

Illuminance at a Distance

Luminaire Property

Luminaire Manufacturer:
Luminaire Category:
Lamp Catalog:
Number of Lamps:
Luminous Length (mm):
Luminous Height (mm):
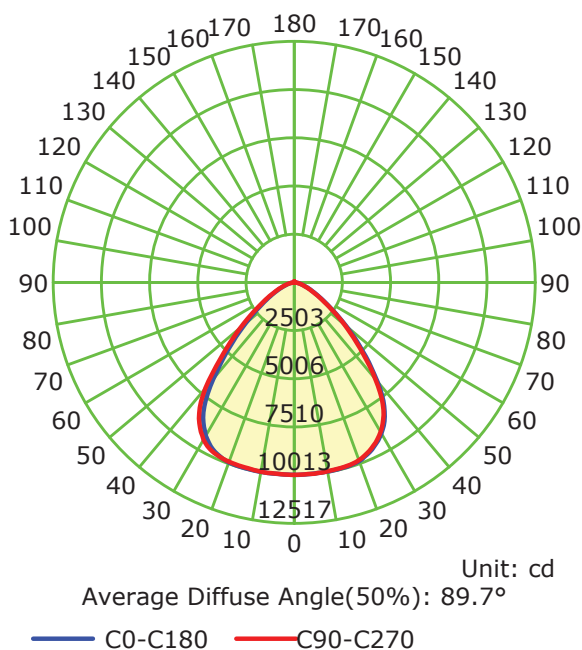Current: 1.265 A
Power Factor: 0.994

Luminaire Description:
Lamp Description:
Lumens per Lamp:
Luminous Width (mm):
Voltage: 120.0 V
Power: 150.89 W

Photometric Results

CIE Class: Direct
Measurement Flux: 20881.1 lm
Downward Ratio: 99%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 129.1, 129.5, 129.6, 129.9
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 89.3, 90.0, 89.7, 89.6
Luminaire Efficacy Rating (LER): 138.44
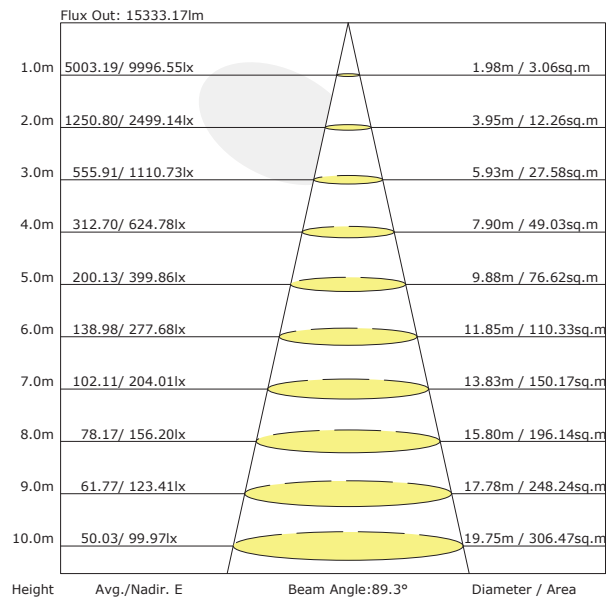Max. Intensity: 10013.7 cd
S/MH(C0/C180): 1.32

Total Rated Lamp Lumens: 20881.1 lm
Efficiency: 100%
Upward Ratio: 1%
C0r0 Intensity: 9996.55 cd
Pos of Max. Intensity: H67.5 V2
S/MH(C90/C270): 1.33

Luminous Intensity Distribution Curve

Unit: cd
Average Diffuse Angle(50%): 89.7°

—— C0-C180   —— C90-C270

Picture Of Luminaire

The Average Illuminance Effective Figure

Flux Out: 15333.17lm

Height	Avg./Nadir. E		Diameter / Area
1.0m	5003.19/ 9996.55lx		1.98m / 3.06sq.m
2.0m	1250.80/ 2499.14lx		3.95m / 12.26sq.m
3.0m	555.91/ 1110.73lx		5.93m / 27.58sq.m
4.0m	312.70/ 624.78lx		7.90m / 49.03sq.m
5.0m	200.13/ 399.86lx		9.88m / 76.62sq.m
6.0m	138.98/ 277.68lx		11.85m / 110.33sq.m
7.0m	102.11/ 204.01lx		13.83m / 150.17sq.m
8.0m	78.17/ 156.20lx		15.80m / 196.14sq.m
9.0m	61.77/ 123.41lx		17.78m / 248.24sq.m
10.0m	50.03/ 99.97lx	Beam Angle:89.3°	19.75m / 306.47sq.m

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Photometric Data for SKU Number 154231

Luminous Intensity Distribution Curve

Illuminance at a Distance

Luminaire Property

Luminaire Manufacturer:
Luminaire Category:
Lamp Catalog:
Number of Lamps:
Luminous Length (mm):
Luminous Height (mm):
Current: 2.025 A
Power Factor: 0.993

Luminaire Description:
Lamp Description:
Lumens per Lamp:
Luminous Width (mm):
Voltage: 120.0 V
Power: 241.35 W

Photometric Results

CIE Class: Direct
Measurement Flux: 34016.2 lm
Downward Ratio: 100%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 128.1, 129.1, 128.2, 129.0
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 88.0, 87.3, 87.1, 87.0
Luminaire Efficacy Rating (LER): 140.99
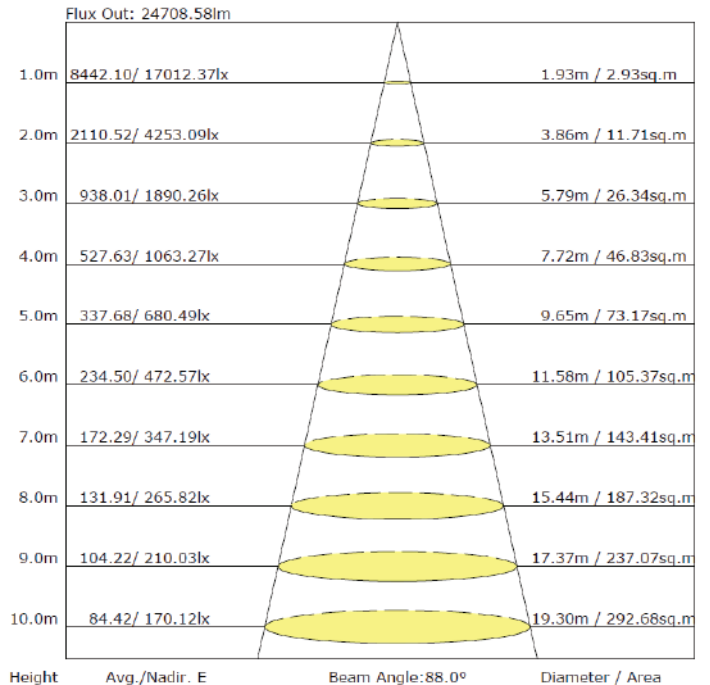Max. Intensity: 17054.18 cd
S/MH(C0/C180): 1.29

Total Rated Lamp Lumens: 34016.2 lm
Efficiency: 100%
Upward Ratio: 0%

C0r0 Intensity: 17012.37 cd
Pos of Max. Intensity: H202.5 V12
S/MH(C90/C270): 1.26

Luminous Intensity Distribution Curve

4263
8527
12790
17054
21317
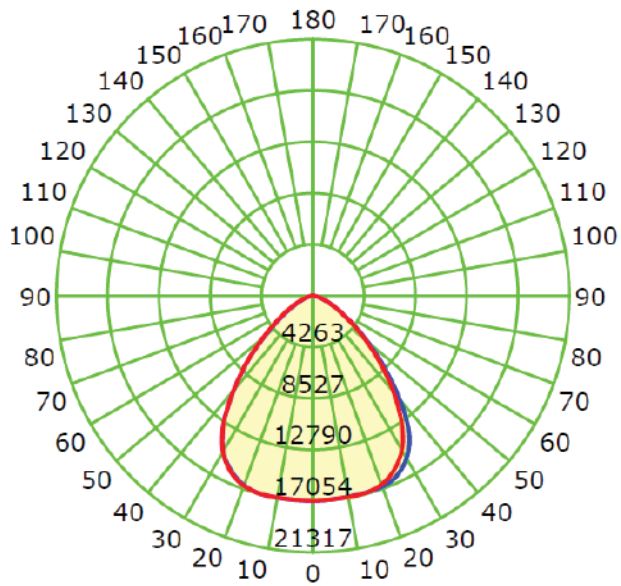
Unit: cd

Average Diffuse Angle(50%): 87.6°

— C0-C180   — C90-C270

The Average Illuminance Effective Figure

Flux Out: 24708.58lm

Height	Avg./Nadir. E		Diameter / Area
1.0m	8442.10/ 17012.37lx		1.93m / 2.93sq.m
2.0m	2110.52/ 4253.09lx		3.86m / 11.71sq.m
3.0m	938.01/ 1890.26lx		5.79m / 26.34sq.m
4.0m	527.63/ 1063.27lx		7.72m / 46.83sq.m
5.0m	337.68/ 680.49lx		9.65m / 73.17sq.m
6.0m	234.50/ 472.57lx		11.58m / 105.37sq.m
7.0m	172.29/ 347.19lx		13.51m / 143.41sq.m
8.0m	131.91/ 265.82lx		15.44m / 187.32sq.m
9.0m	104.22/ 210.03lx		17.37m / 237.07sq.m
10.0m	84.42/ 170.12lx		19.30m / 292.68sq.m

Beam Angle:88.0°

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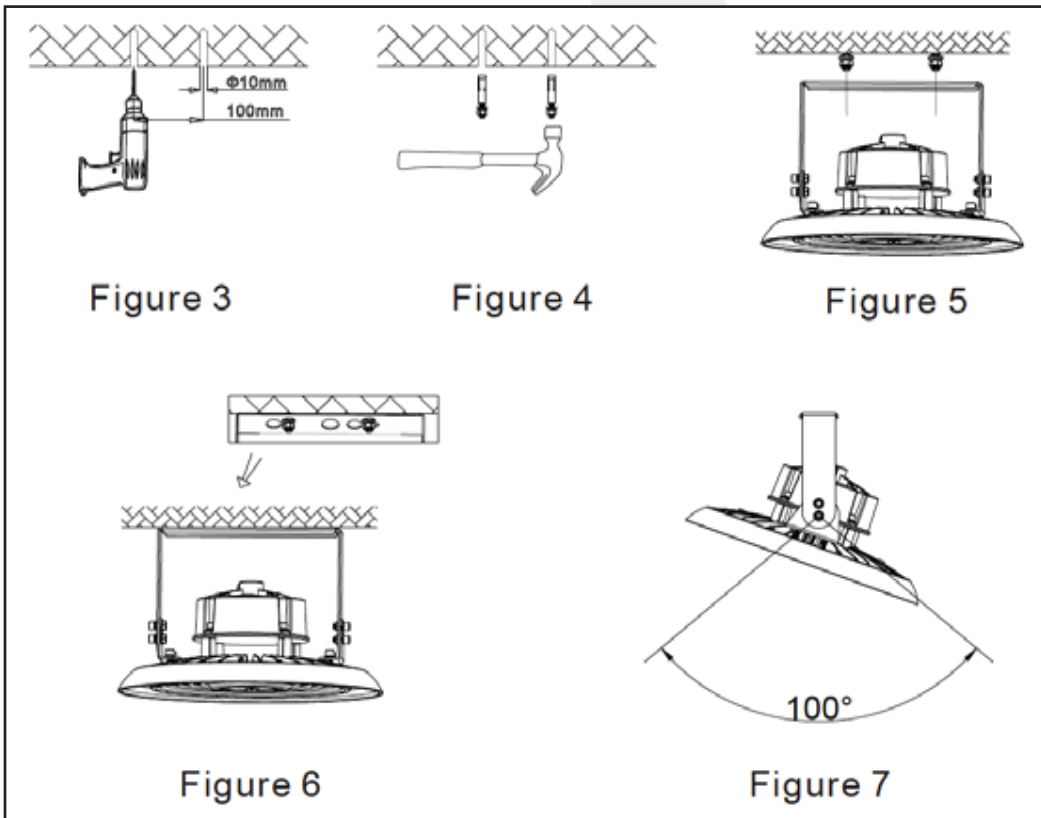
Installation Instructions

Hook Mount

1. Screw the hook into the fixture, tighten and fix it, (figure 1) 2. Hang the fixture on the ceiling hook or chain, (figure 2) 3. After installation, connect the wire of the fixture to the mains according to local wiring rules, ensure the connection is stable and protected on the connection.


Figure 1

Figure 2

A   B
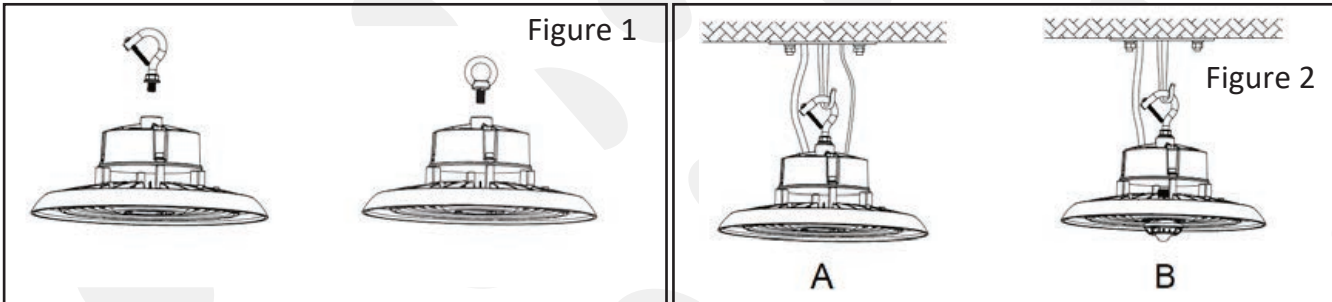
Celling Mount

1. Mark with a marker pen or sharpie tool on the mounting surface and drill. (figure 3) 2. Fix screws into the holes with a hammer, (figure 4) 3. Align the bracket hole with screw hole (figure 5), and push the fixture to one side (figure 6) and fix it 4, After installation, connect the wire of the fixture to the mains according to local wiring rules, ensure the connection is stable and protected on the connection. By adjusting the brackets screws, users can adjust 50° to the left or right vertically. (figure 7)

Φ10mm
100mm

Figure 3   Figure 4   Figure 5

Figure 6   100°   Figure 7

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Installation Instructions

U Bracket Mount

1. Unscrew the nuts on 1/2" NTP. (figure 8) 2. Insert 1/2" NTP stem into the bracket hole. (figure 9) 3. Re-screw the nuts. (figure 10) 4. After installation, connect the wire of the fixture to the mains according to local wiring rules, ensure the connection is stable and make good protection on the connection, By adjusting the brackets screws, users can adjust 50° to the left or right vertically. (figure 11)
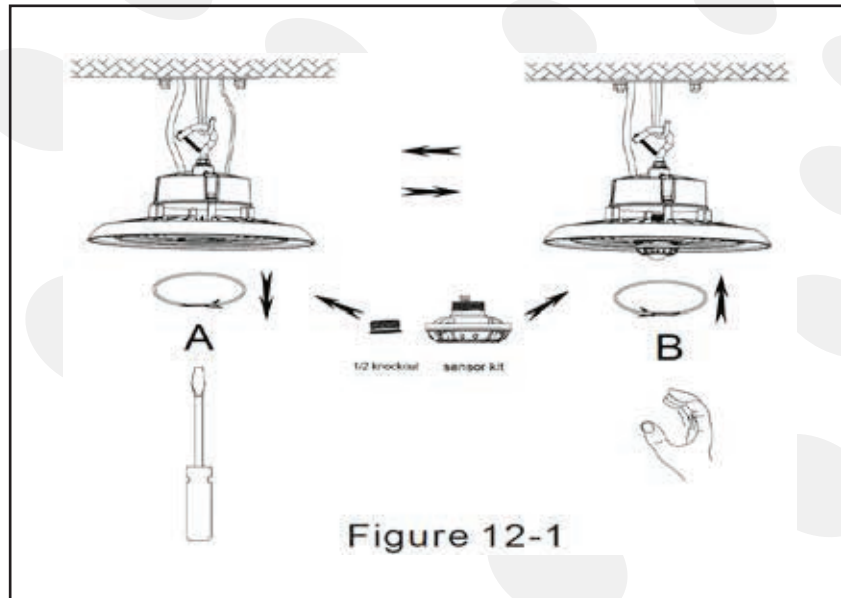

Figure 8

Figure 9

Figure 10

Figure 11
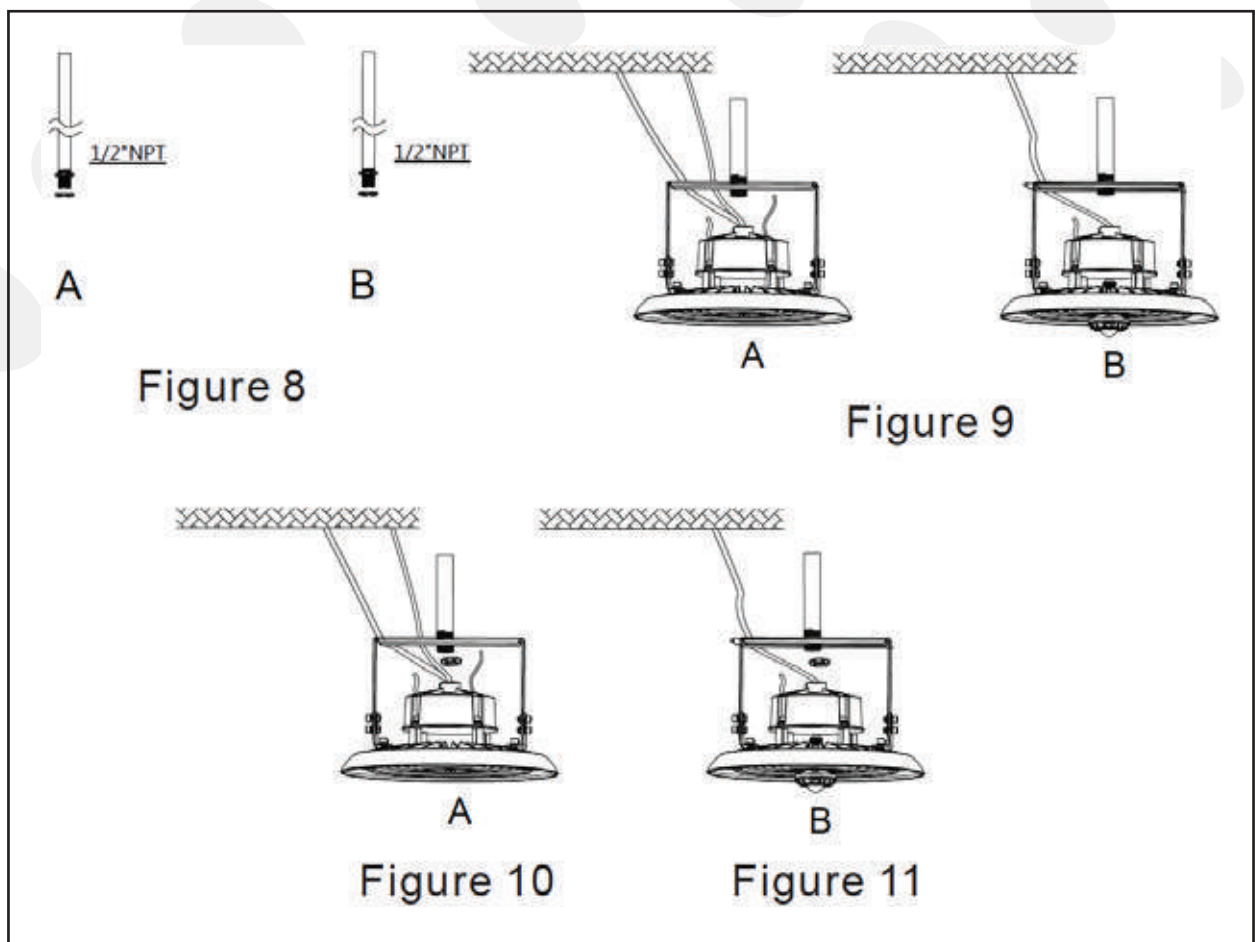
Installation Instructions

Motion Sensor

The fixture has integrated function 3 Power selectable. The setting could be customized. Operation: Take away the water-proof gasket, adjust dip switch to choose Power as per sign. The original setting could be either factory default or customized request{Figure 12-1

Figure 12-1

Caution

1. Can not use the electric generator to test the LED light .
2. Please abide by related country, regional and local law and regulations when installing this fixture.
3. Please turn off the power before installation or maintenance.
4. Proper grounding is required to ensure safety.

Notice

1. To avoid possibility of electrical shock or fire, the installation personnel must have professional electric knowledge.
2. Please wear gloves to avoid injury before installation.
3. If there is any smoke or spark, please turn off the power immediately and consult a qualified ele-ctrician.
4.Please use listed water proof strain relief bushing when connection the supply cord to the outlet box.
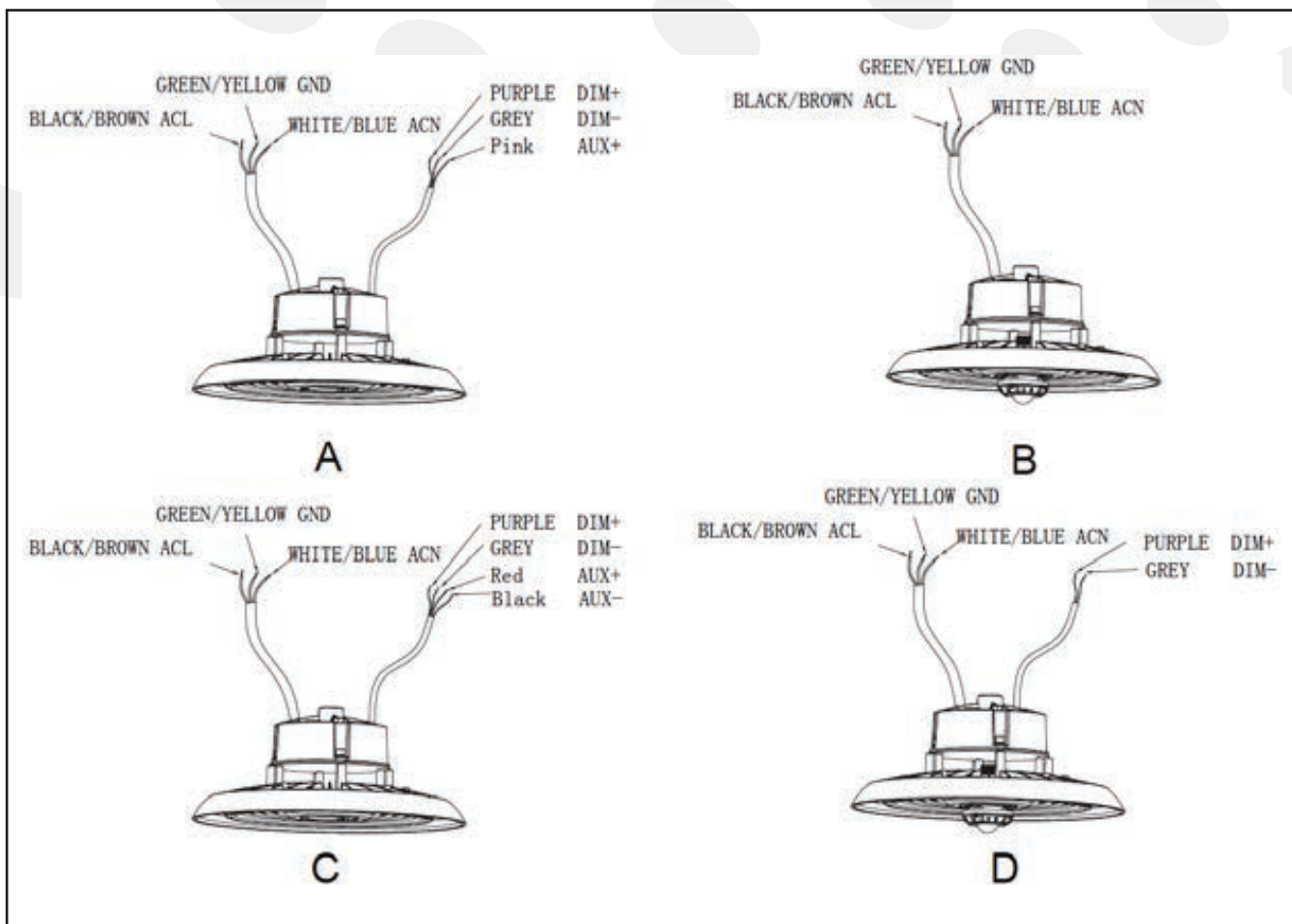
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Wiring Diagram & Instructions

This LED highboy light can be equipped with optional DC motion sensor,and is available with 1-10V dimming function withfollowing 3 dimming solutions:

1. 1-10V dimming,
2. Intelligent dimming with DC motion sensor,
3 Pre-install tool-free handling DC motion sensor dimming module,and chones dimming module,and choose dimming function freely,

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Packaging Info for SKU # 154230

Bracket Type	Carton Size	Qty/Box	N.W/Box	G.W/Box
Hook Mount	14.17 X 14.17 X 6.49 in	1PC	5.30 lbs	7.50 lbs
Ceiling Mount	14.17 X 14.17 X 6.49 in	1PC	6.40 lbs	7.76 lbs

Packaging Info for SKU # 155456

Bracket Type	Carton Size	Qty/Box	N.W/Box	G.W/Box
Hook Mount	14.17 X 14.17 X 6.49 in	1PC	5.51 lbs	7.28 lbs
Ceiling Mount	14.17 X 14.17 X 6.49 in	1PC	6.40 lbs	8.16 lbs

Packaging Info for SKU # 154231

Bracket Type	Carton Size	Qty/Box	N.W/Box	G.W/Box
Hook Mount	16.54 X 16.54 X 6.88 in	1PC	7.94 lbs	10.36 lbs
Ceiling Mount	16.54 X 16.54 X 6.88 in	1PC	9.92 lbs	12.35 lbs

Tolerance of Carton Size: ±15 MM, Tolerance of Weight: ±10%
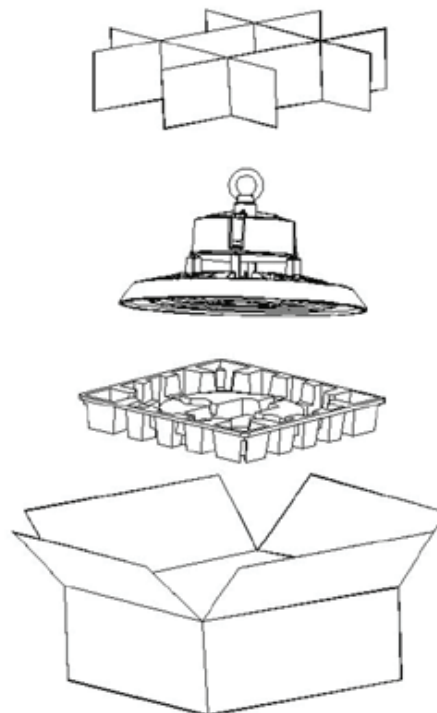
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Application

Warehouse, factory and workshops; Highway toll station and gas station; Exhibition Hall; Gymnasium and supermarkets, etc.

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