

SPECIFICATION SHEET

SUBJECT

High Bay BLACKSTAR Quark

CUSTOMER PROJECT

Project: _____
 Type: _____
 Cat. No.: _____
 Qty: _____
 Date: _____
 EEL Rep: _____



CHBQ HIGH BAY BLACKSTAR QUARK SERIES

CHBQ SERIES

BLACKSTAR QUARK

Wattage(s) 100W, 150W, 200W, 240W

Voltage 120-347V

Dimmable 0-10V*

CRI >80

Efficacy 150lm/W

Lumen Maintenance Theoretical L70 = 180,000h
 Lumen maintenance at 36,000 hrs = 92.87%

Operating Temperature -40°C to 45°C (Without Sensor)
 -20°C to 45°C (With Sensor)

Inherent Surge Protection L-N: 6kV
 L&N-G: 6kV

12V Auxiliary DC Output (For DC powered sensor or other products) Max output power: 1.8W
 Max output current: 150mA

IK Rating IK10

*Dimming wires must not be used simultaneously with microwave sensor; failure to do so will void the warranty.



Telephone: 905 415 8878 Fax Number: 905 415 8872 Toll Free Telephone: 855 415 8878 Toll Free Fax: 855 415 8872

DESCRIPTION

The BLACKSTAR Quark is an NSF-certified, IP66, and NEMA 4X-compliant workhorse of a circular high bay.

Beating out the competition with an efficacy of 150lm/W, this robust UFO comes with the reliability you expect from our die-cast, high-purity aluminium BLACKSTAR family.

The Quark is suitable for 120-347V applications and is backed by 6kV in surge protection. The 10' UL-listed cord and safety cable (to secure to a second mounting point) makes for a hassle-free and secure installation.

Ideal for warehouses and storage facilities (including cold storage), as well as automotive, manufacturing, and industrial environments.

SPECIFICATION FEATURES

Construction

- Die-cast high purity aluminium housing
- Polycarbonate(PC) lens
- Excellent thermal transfer to extend component life
- Integrated microwave sensor is optional for energy saving solution
- Ability to be mounted with hook for strong and easy mounting
- 10ft UL-listed whip (STW 3C 18AWG 600V Ft2)
- Black powder-coated finish
- NPT 1/2" opening for mounting hook

Mounting

- Suspension
- Fixture Weight:
 100W = 4.94lbs / 2.24kg
 150W = 6.17lbs / 2.8kg
 200W = 7.6lbs / 3.44kg
 240W = 9.2lbs / 4.18kg

Beam Angle

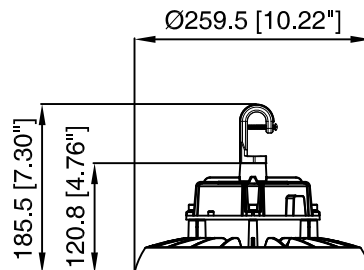
- 110° (standard)
- 85° (optional with 85° lens)

Compliance

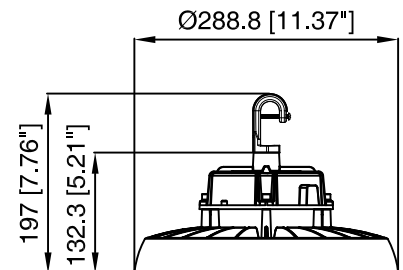
- DLC Standard (110° Beam Angle Models)
- DLC Premium (85° Beam Angle Models)
- IP66 (without sensor)
- IP65 (with sensor)
- NEMA 4X
- NSF ANSI 2
- Corrosion resistant: Passes 48-hr Salt-Spray Test per ISO14993 and IEC 60068-2-11.
- cUL
- The basic standard used to investigate products that are UL 1598 ("Luminaires") certified, also conforms to CSA-C22.2 No. 250.0 ("Luminaires").

Warranty

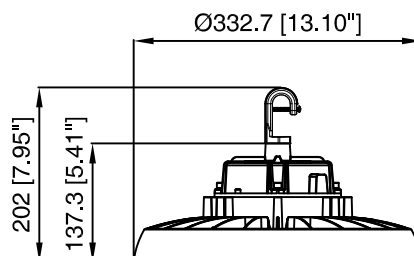
- 5-Year Warranty (standard)
- 10-Year Limited Warranty (optional - conditions may apply)



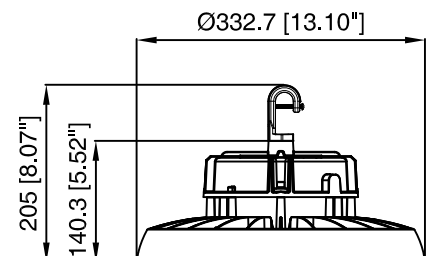
CHBQ 100W Dimensions
 mm | 259.5(Ø) x 120.8(H) x 185.5(H2)
 inch | 10.22(Ø) x 4.76(H) x 7.3(H2)



CHBQ 150W Dimensions
 mm | 288.8(Ø) x 132.3(H) x 197(H2)
 inch | 11.37(Ø) x 5.21(H) x 7.76(H2)



CHBQ 200W Dimensions
 mm | 332.7(Ø) x 137.3(H) x 202(H2)
 inch | 13.1(Ø) x 5.41(H) x 7.95(H2)



CHBQ 240W Dimensions
 mm | 332.7(Ø) x 140.3(H) x 205(H2)
 inch | 13.1(Ø) x 5.52(H) x 8.07(H2)

...continued

Telephone: 905 415 8878 Fax Number: 905 415 8872 Toll Free Telephone: 855 415 8878 Toll Free Fax: 855 415 8872

ORDERING CODE, ENERGY AND PERFORMANCE DATA

	Model No.	Delivered Lumens (lm)	Input Watts (W)	Voltage (V)	Colour Temp. (K)	Efficacy (lm/W)	Certification	Compliance
110° Beam Angle								
	CHBQ-2475 Black CHBQ-2475-XX-100W40K-120347V-D110V-E150	15052	101	120-347	4000K	150	 	IP66 NEMA 4X
	CHBQ-2575 Black CHBQ-2575-XX-100W50K-120347V-D110V-E150	15161	101	120-347	5000K	151	 	IP66 NEMA 4X
	CHBQ-3475 Black CHBQ-3475-XX-150W40K-120347V-D110V-E150	22550	152	120-347	4000K	149	 	IP66 NEMA 4X
	CHBQ-3575 Black CHBQ-3575-XX-150W50K-120347V-D110V-E150	22723	152	120-347	5000K	150	 	IP66 NEMA 4X
	CHBQ-5475 Black* CHBQ-5475-XX-200W40K-120347V-D110V-E150	29998	202	120-347	4000K	148	 	IP66 NEMA 4X
	CHBQ-5575 Black* CHBQ-5575-XX-200W50K-120347V-D110V-E150	30261	202	120-347	5000K	150	 	IP66 NEMA 4X
	CHBQ-6475 Black CHBQ-6475-XX-240W40K-120347V-D110V-E150	35555	237	120-347	4000K	150	 	IP66 NEMA 4X
	CHBQ-6575 Black CHBQ-6575-XX-240W50K-120347V-D110V-E150	35846	237	120-347	5000K	152	 	IP66 NEMA 4X
85° Beam Angle								
	CHBQ-2475-P1 Black CHBQ-2475-P1-BK-100W40K-120347V-D110V-E150-A2131-85LENS	15052	101	120-347	4000K	150	 	IP66 NEMA 4X
	CHBQ-2575-P1 Black CHBQ-2575-P1-BK-100W50K-120347V-D110V-E150-A2131-85LENS	15161	101	120-347	5000K	151	 	IP66 NEMA 4X
	CHBQ-3475-P1 Black CHBQ-3475-P1-BK-150W40K-120347V-D110V-E150-A2131-85LENS	22550	152	120-347	4000K	149	 	IP66 NEMA 4X
	CHBQ-3575-P1 Black CHBQ-3575-P1-BK-150W50K-120347V-D110V-E150-A2131-85LENS	22723	152	120-347	5000K	150	 	IP66 NEMA 4X
	CHBQ-5475-P1 Black* CHBQ-5475-P1-BK-200W40K-120347V-D110V-E150-A2131-85LENS	29998	202	120-347	4000K	148	 	IP66 NEMA 4X
	CHBQ-5575-P1 Black* CHBQ-5575-P1-BK-200W50K-120347V-D110V-E150-A2131-85LENS	30261	205	120-347	5000K	150	 	IP66 NEMA 4X
	CHBQ-6475-P1 Black CHBQ-6475-P1-BK-240W40K-120347V-D110V-E150-A2131-85LENS	35555	237	120-347	4000K	150	 	IP66 NEMA 4X
	CHBQ-6575-P1 Black CHBQ-6575-P1-BK-240W50K-120347V-D110V-E150-A2131-85LENS	35846	237	120-347	5000K	152	 	IP66 NEMA 4X

NOTE:

- Lumens are estimated
- DLC qualified may not apply to all versions within a model. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.
- '-XX' can be -MS: Microwave Sensor; -PIR: PIR Motion Sensor; -BT: Motion Sensor with Bluetooth; blank: no sensor.
- *Specs for 200W models are preliminary.

...continued

Telephone: 905 415 8878 Fax Number: 905 415 8872 Toll Free Telephone: 855 415 8878 Toll Free Fax: 855 415 8872

Optional Accessories

CHBQ-2X-A2131-WG | Wire Guard for 100W (CHBQ-2X)
 CHBQ-3X-A2131-WG | Wire Guard for 150W (CHBQ-3X)
 CHBQ-6X-A2131-WG | Wire Guard for 200W or 240W (CHBQ-5X or CHBQ-6X)

CHBQ-2X-A2131-PCR | 90° Clear Polycarbonate Reflector for 100W (CHBQ-2X)
 CHBQ-3X-A2131-PCR | 90° Clear Polycarbonate Reflector for 150W (CHBQ-3X)
 CHBQ-6X-A2131-PCR | 90° Clear Polycarbonate Reflector for 200W or 240W (CHBQ-5X or CHBQ-6X)

CHBQ-U2X3X-A2131-PCRBC | Clear Bottom Cap for use with PC Reflector for 100W or 150W (CHBQ-2X-A2131-PCR or CHBQ-3X-A2131-PCR)
 CHBQ-6X-A2131-PCRBC | Clear Bottom Cap for use with PC Reflector for 200W or 240W (CHBQ-5X-A2131-PCR or CHBQ-6X-A2131-PCR)

CHBQ-2X-A2131-MB | Mounting Bracket for 100W (CHBQ-2X)
 CHBQ-3X-A2131-MB | Mounting Bracket for 150W (CHBQ-3X)
 CHBQ-6X-A2131-MB | Mounting Bracket for 200W or 240W (CHBQ-5X or CHBQ-6X)

CHBQ-2X-A2131-85LENS | 85° Lens for 100W (CHBQ-2X)
 CHBQ-3X-A2131-85LENS | 85° Lens for 150W (CHBQ-3X)
 CHBQ-6X-A2131-85LENS | 85° Lens for 200W or 240W (CHBQ-5X or CHBQ-6X)

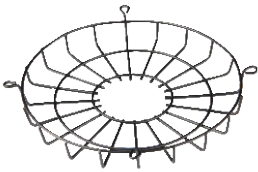
CONTROLS (OPTIONAL)

SMF2125 | Microwave motion sensor 0-10V dimmable, DC12-24V (Max. mounting height: 40ft)**
 RC1020 | Remote Control for SMF2125 (sold separately)

**Sensor settings can be changed using RC1020 (sold separately). Available option for factory installed sensor (additional costs may apply).

EMERGENCY BACK-UP (OPTIONAL)

EMP-P4035 | Emergency Battery Pack 25W output, 170V (100W, 150W and 200W only)



CHBQ Wire Guard



CHBQ PC Reflector



CHBQ Clear Bottom Cap
(requires use with PC Reflector)



CHBQ Mounting Bracket



CHBQ 85° Lens

SMF2125



Default Sensor Setting

Motion	100% lumen output
>=5min with no motion	30% lumen output
>=60min with no motion	Off

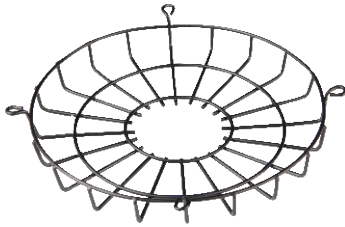
Detection Range: 100%, maximum mounting height of 40ft
 Daylight Sensor: Disabled

RC1020



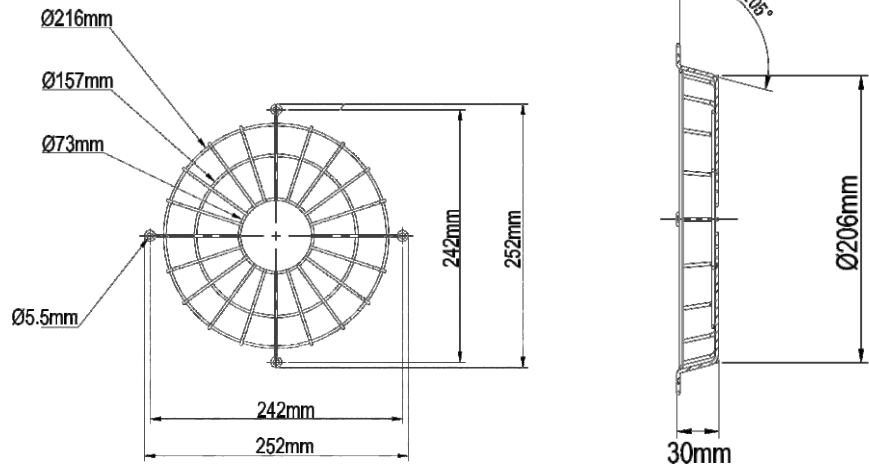
...continued

Telephone: 905 415 8878 Fax Number: 905 415 8872 Toll Free Telephone: 855 415 8878 Toll Free Fax: 855 415 8872

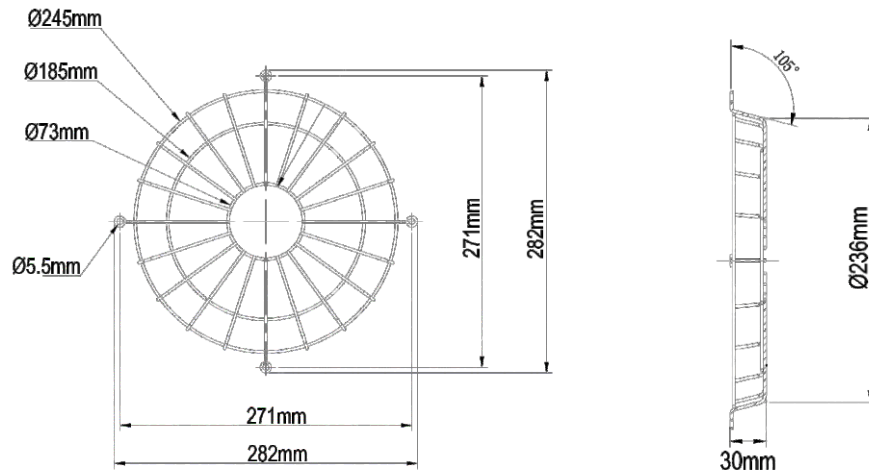


CHBQ Wire Guard

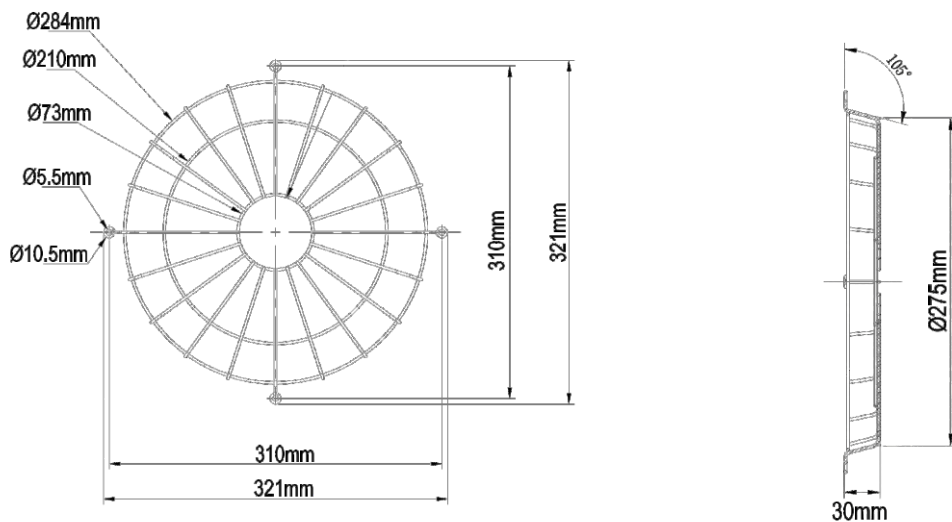
100W Dimensions:



150W Dimensions:



200W / 240W Dimensions:

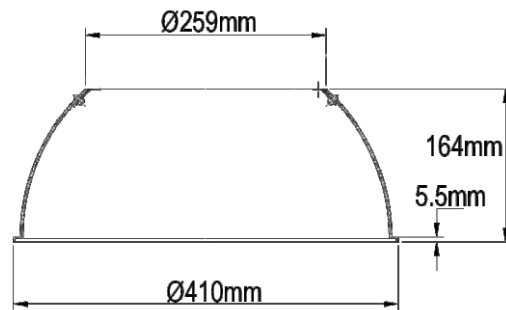
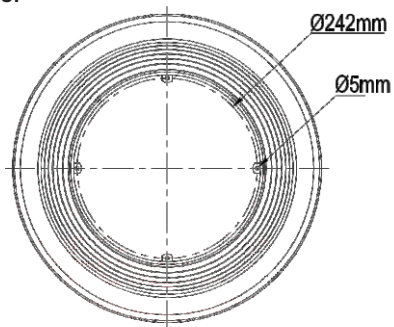


Please allow for tolerance on specifications and dimensions.
If required, please consult EEL.

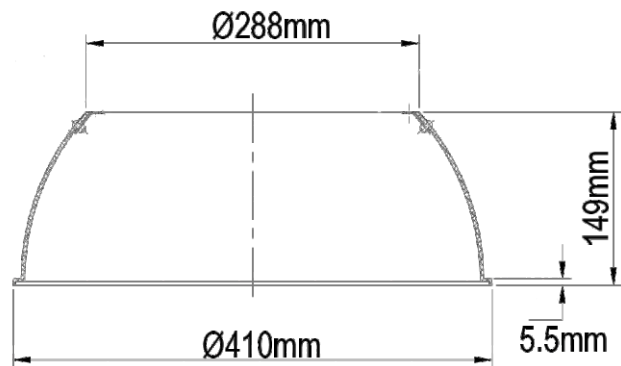
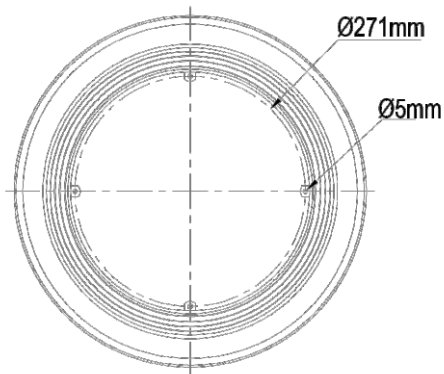


CHBQ PC Reflector

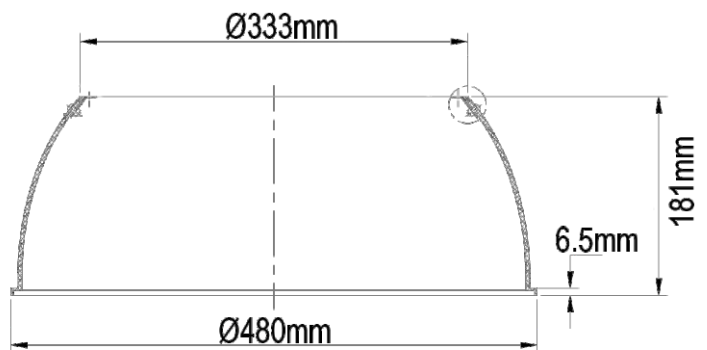
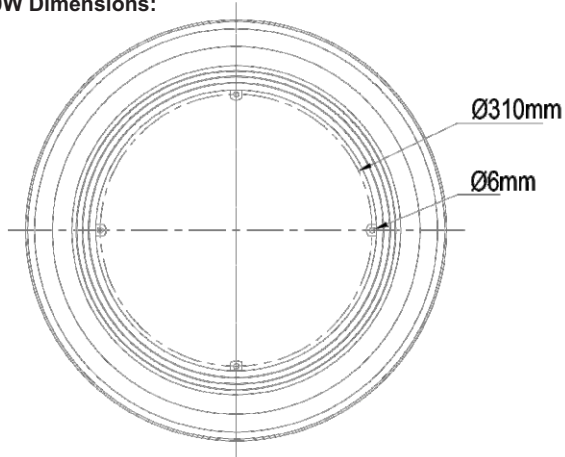
100W Dimensions:



150W Dimensions:



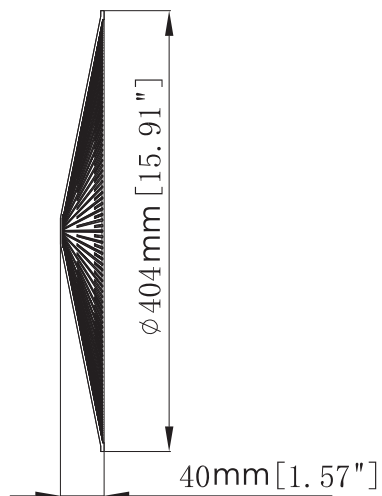
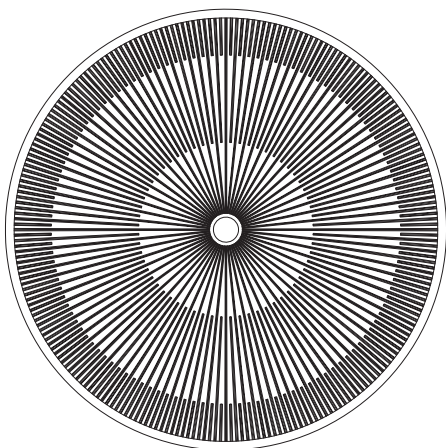
200W / 240W Dimensions:



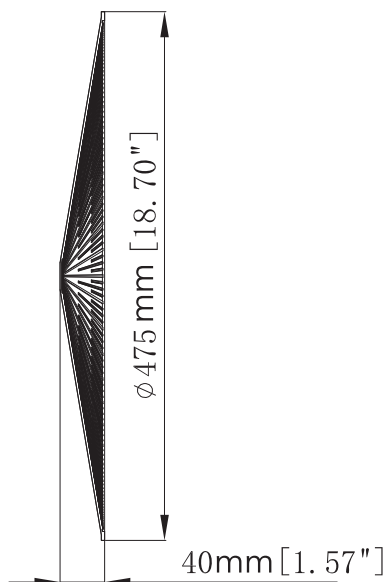
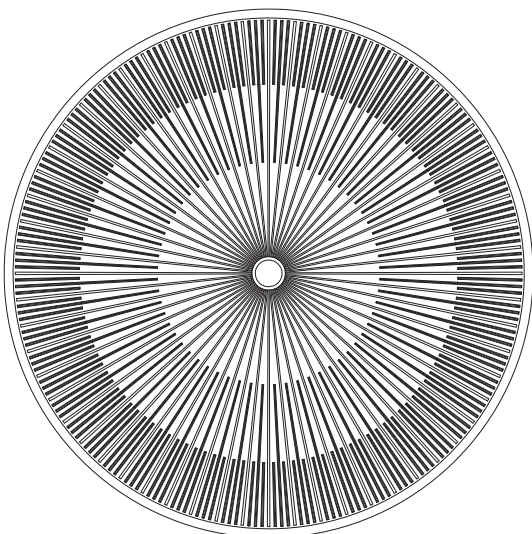


CHBQ Clear Bottom Cap
(requires use with PC Reflector)

100W/150W Dimensions:



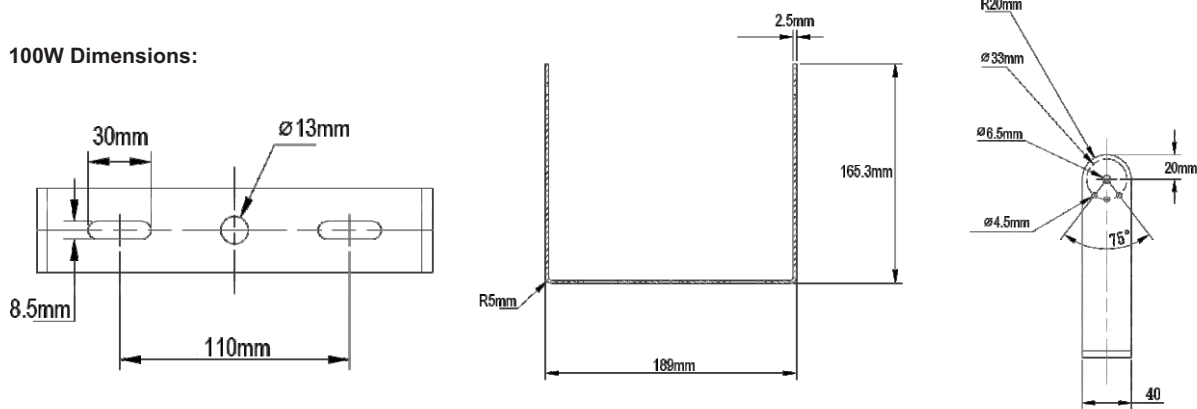
200W / 240W Dimensions:



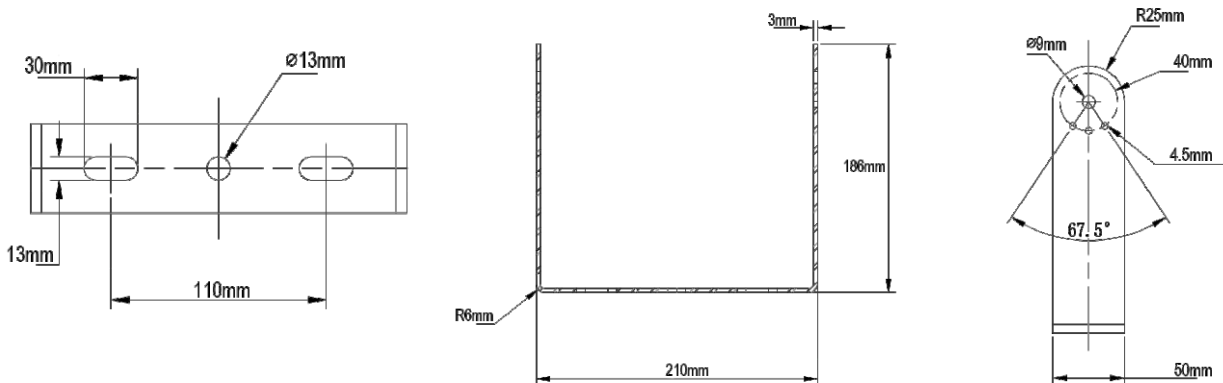


CHBQ Mounting Bracket

100W Dimensions:



150W Dimensions:



200W / 240W Dimensions:

