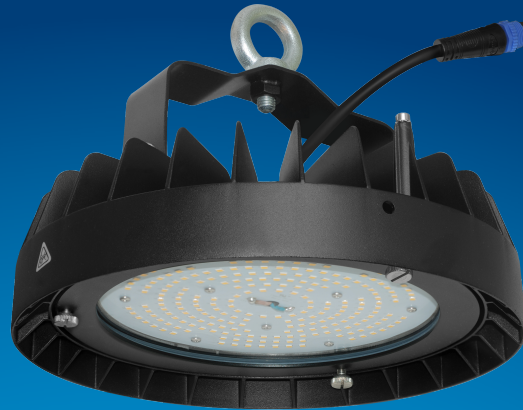


PHILIPS

CertaFlux

LED

CertaFlux High Bay
module



Datasheet

CertaFlux High Bay

CertaFlux High Bay (CHB) is an integrated module solution with IP65 protection, optics and heatsink that offers good enough energy efficacy with high quality of light. CertaFlux High Bay (CHB) provides an optimized value for money proposition for LED lighting in high bay applications - warehouses, factories, large-format retail stores. A range of compatible IP67 Xitanium drivers complement the CertaFlux High Bay modules. The portfolio is suitable to replace conventional 100W, 150W and 250W conventional solutions.

Key features and benefits

- IP65 integrated heat sink and optics
- Good enough energy efficacy around 120 Lm/W at Module level
- Various lumen-level solutions, 10K, 15K, 20K Lm
- 2 Color temperatures: 4000K, 5700K
- 2 light distributions: 60° and 90°, via reflector
- CRI 80
- Easy design-in
- Optimized Value for money
- Good enough performance
- 3 years system warranty

March 2018

Ordering data

Commercial product name	12NC	Box quantity
CertaFlux High Bay Module 10KLM 840	9290 014 65380	1
CertaFlux High Bay Module 15KLM 840	9290 014 65480	1
CertaFlux High Bay Module 20KLM 840	9290 014 65580	1
CertaFlux High Bay Module 10KLM 857	9290 014 65680	1
CertaFlux High Bay Module 15KLM 857	9290 014 65780	1
CertaFlux High Bay Module 20KLM 857	9290 014 65880	1
Reflector High Bay 210MM 60D	9290 014 65980	20
Reflector High Bay 210MM 90D	9290 014 66080	20
Reflector High Bay 310MM 60D	9290 014 32880	20
Reflector High Bay 310MM 90D	9290 014 32980	20

Drive currents

Parameter	Nominal*	Life**	Max***	Unit
CertaFlux High Bay module	1050	1050	1050	mA

Module temperatures

Parameter	Nominal*	Life**	Max***	Unit
T _c (case temperature at T _c point)	75	80	95	°C

* Nominal value at which typical performance is specified

** Value at which life time is specified

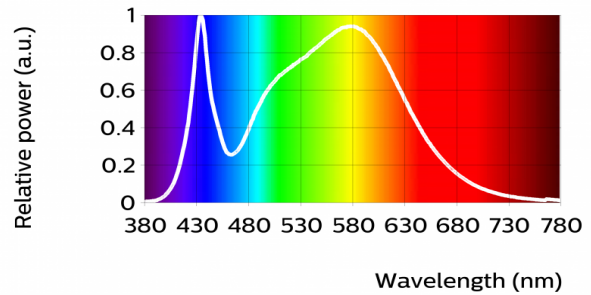
*** Maximum value for safe operation, do not operate above this value

Optical characteristics - table per color (CCT)

CertaFlux High Bay Module 10KLM 840

Parameter	Min	Typ	Max	Unit
Luminous flux	9000	10000	12000	lm
Module efficacy		120		lm/W
Correlated color temperature (CCT)		4000		K
Color coordinates (CIEx, CIEy)		(0.378, 0.375)		-
Color consistency			6	SDCM
CRI	80			
Photobiological safety			RG1 unlimited	

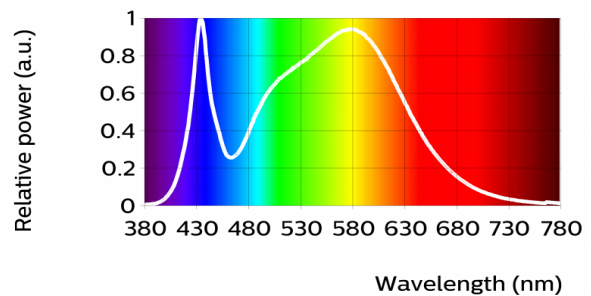
Measurement precision for flux +/- 5%. Measurement precision for efficacy +/- 6%. Measurement precision for x, y +/- 0.005. Measurement precision for CRI 1.5



CertaFlux High Bay Module 15KLM 840

Parameter	Min	Typ	Max	Unit
Luminous flux	13500	15000	18000	lm
Module efficacy		120		lm/W
Correlated color temperature (CCT)		4000		K
Color coordinates (CIEx, CIEy)		(0.378, 0.375)		-
Color consistency			6	SDCM
CRI	80			
Photobiological safety			RG1 unlimited	

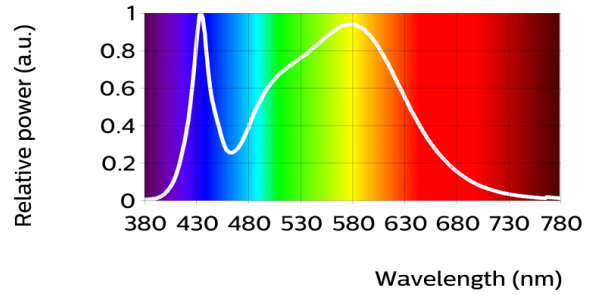
Measurement precision for flux +/- 5%. Measurement precision for efficacy +/- 6%. Measurement precision for x, y +/- 0.005. Measurement precision for CRI 1.5



CertaFlux High Bay Module 20KLM 840

Parameter	Min	Typ	Max	Unit
Luminous flux	18000	20000	24000	lm
Module efficacy		120		lm/W
Correlated color temperature (CCT)		4000		K
Color coordinates (CIEx, CIEy)		(0.378, 0.375)		-
Color consistency			6	SDCM
CRI	80			
Photobiological safety			RG1 unlimited	

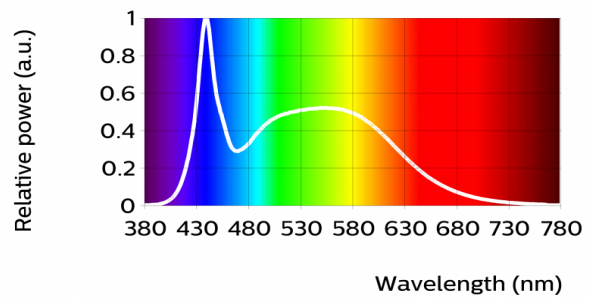
Measurement precision for flux +/- 5%. Measurement precision for efficacy +/- 6%. Measurement precision for x, y +/- 0.005. Measurement precision for CRI 1.5



CertaFlux High Bay Module 10KLM 857

Parameter	Min	Typ	Max	Unit
Luminous flux	9000	10000	12000	lm
Module efficacy		120		lm/W
Correlated color temperature (CCT)		5700		K
Color coordinates (CIEx, CIEy)		(0.325, 0.340)		-
Color consistency			6	SDCM
CRI	80			
Photobiological safety			RG1 unlimited	

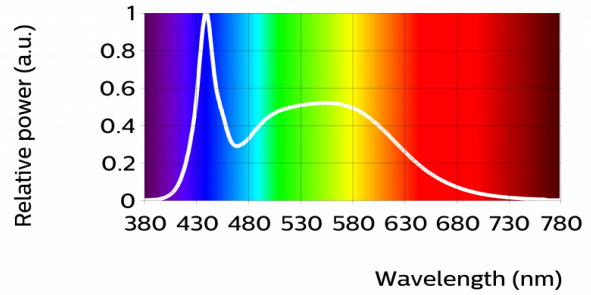
Measurement precision for flux +/- 5%. Measurement precision for efficacy +/- 6%. Measurement precision for x, y +/- 0.005. Measurement precision for CRI 1.5



CertaFlux High Bay Module 15KLM 857

Parameter	Min	Typ	Max	Unit
Luminous flux	13500	15000	18000	lm
Module efficacy		120		lm/W
Correlated color temperature (CCT)		5700		K
Color coordinates (CIEx, CIEy)		(0.325, 0.340)		-
Color consistency			6	SDCM
CRI	80			
Photobiological safety			RG1 unlimited	

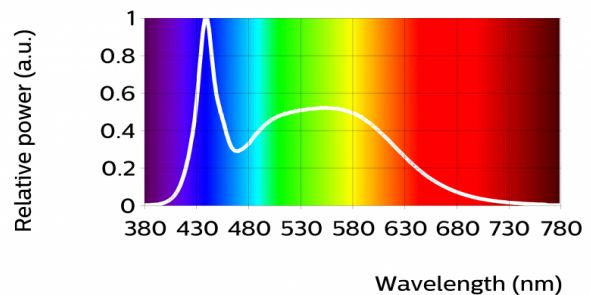
Measurement precision for flux +/- 5%. Measurement precision for efficacy +/- 6%. Measurement precision for x, y +/- 0.005. Measurement precision for CRI 1.5



CertaFlux High Bay Module 20KLM 857

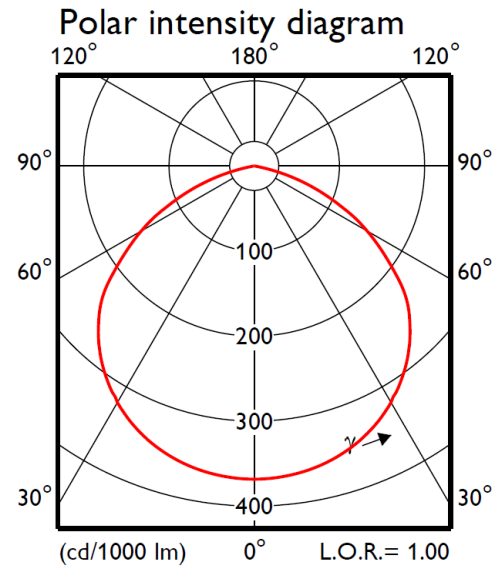
Parameter	Min	Typ	Max	Unit
Luminous flux	18000	20000	24000	lm
Module efficacy		120		lm/W
Correlated color temperature (CCT)		5700		K
Color coordinates (CIEx, CIEy)		(0.325, 0.340)		-
Color consistency			6	SDCM
CRI	80			
Photobiological safety			RG1 unlimited	

Measurement precision for flux +/- 5%. Measurement precision for efficacy +/- 6%. Measurement precision for x, y +/- 0.005. Measurement precision for CRI 1.5

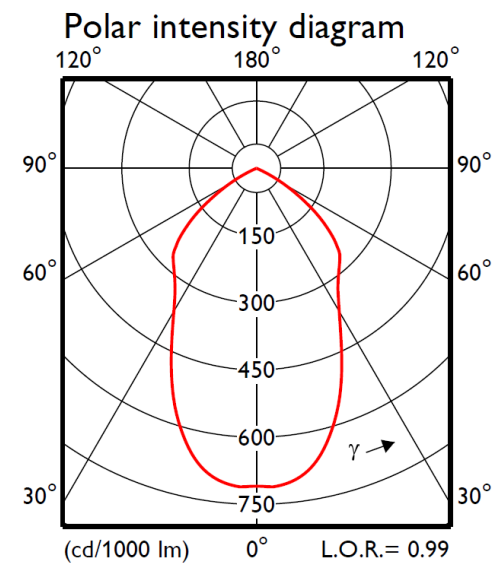


Beam shape

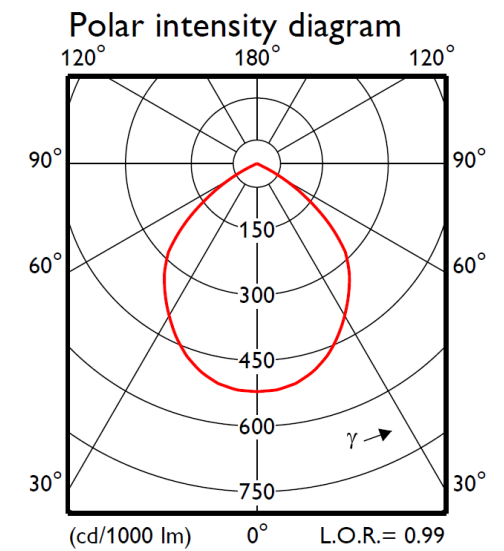
Light distribution of CertaFlux High Bay module



Light distribution of CertaFlux High Bay module with 60D reflector



Light distribution of CertaFlux High Bay module with 90D reflector



CertaFlux High Bay Module 10KLM 840
 CertaFlux High Bay Module 10KLM 857

Parameter	Min	Typ	Max	Unit
Forward voltage		83.0	84.6	V
Power consumption		87.0	88.8	W
Number of modules in series per chain			1	
Number of modules in parallel per chain			1	

Measurement precision for Vf +/- 3%. Measurement precision for power +/- 3.3%

CertaFlux High Bay Module 15KLM 840
 CertaFlux High Bay Module 15KLM 857

Parameter	Min	Typ	Max	Unit
Forward voltage		129.5	131.6	V
Power consumption		136.0	138.2	W
Number of modules in series per chain			1	
Number of modules in parallel per chain			1	

Measurement precision for Vf +/- 3%. Measurement precision for power +/- 3.3%

CertaFlux High Bay Module 20KLM 840
 CertaFlux High Bay Module 20KLM 857

Parameter	Min	Typ	Max	Unit
Forward voltage		176.0	178.6	V
Power consumption		185.0	187.5	W
Number of modules in series per chain			1	
Number of modules in parallel per chain			1	

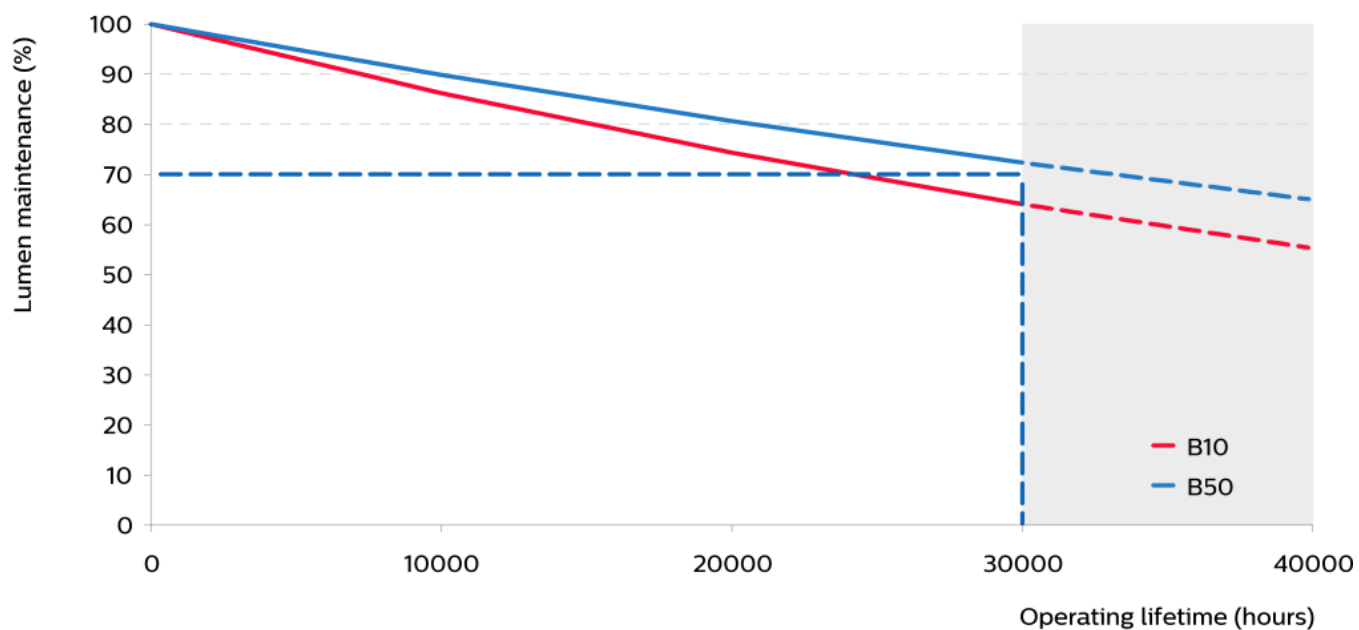
Measurement precision for Vf +/- 3%. Measurement precision for power +/- 3.3%

Lifetime

Parameter	Value	Unit
C10 at Tc life	30000	hours

Lumen maintenance graphs

Lumen maintenance at I-life and Tc-life conditions



Wiring

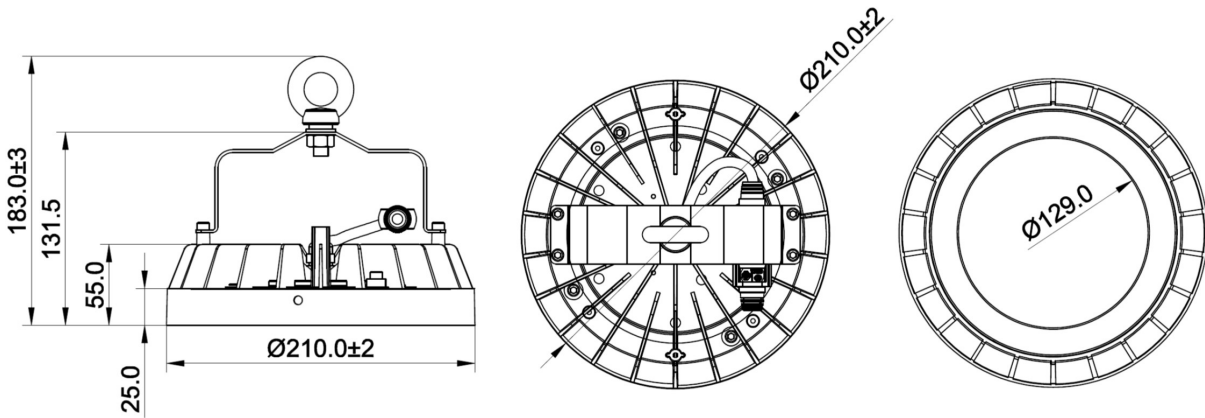


S2M705020-0411, 2pin push in male connector

Mechanical characteristics

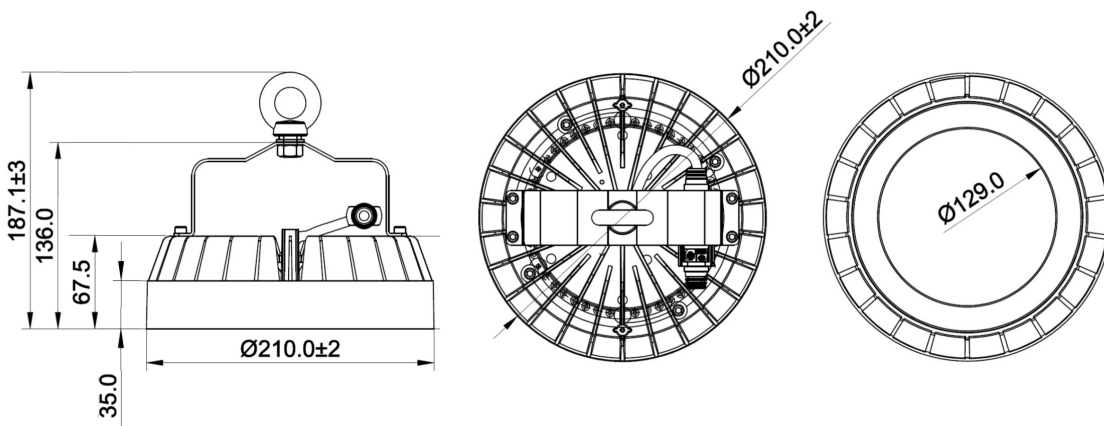
CertaFlux High Bay Module 10KLM 840
 CertaFlux High Bay Module 10KLM 857

Parameter	Min	Typ	Max	Unit
Length	208	210	212	mm
Width	208	210	212	mm
Height	180	183	186	mm



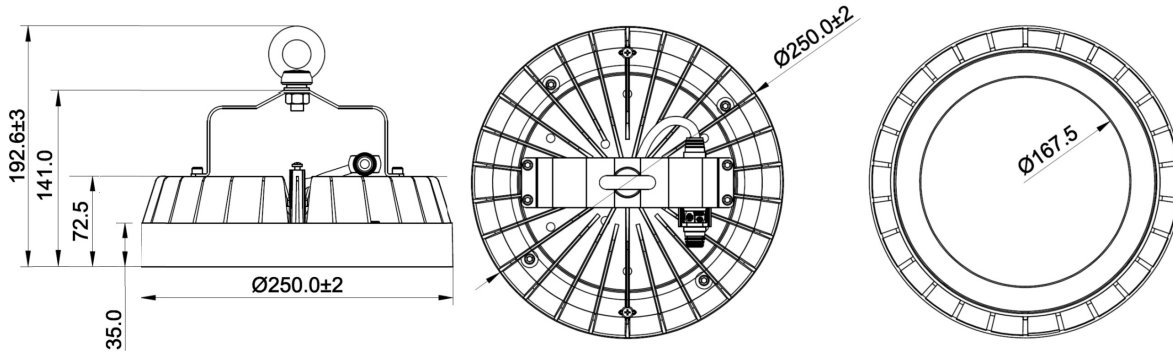
CertaFlux High Bay Module 15KLM 840
 CertaFlux High Bay Module 15KLM 857

Parameter	Min	Typ	Max	Unit
Length	208	210	212	mm
Width	208	210	212	mm
Height	184.1	187.1	190.1	mm



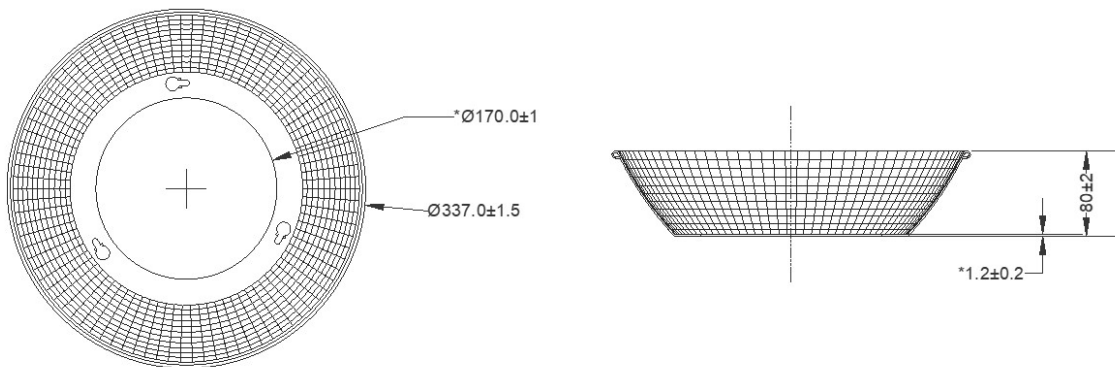
CertaFlux High Bay Module 20KLM 840
 CertaFlux High Bay Module 20KLM 857

Parameter	Min	Typ	Max	Unit
Length	248	250	252	mm
Width	248	250	252	mm
Height	189.6	192.6	195.6	mm



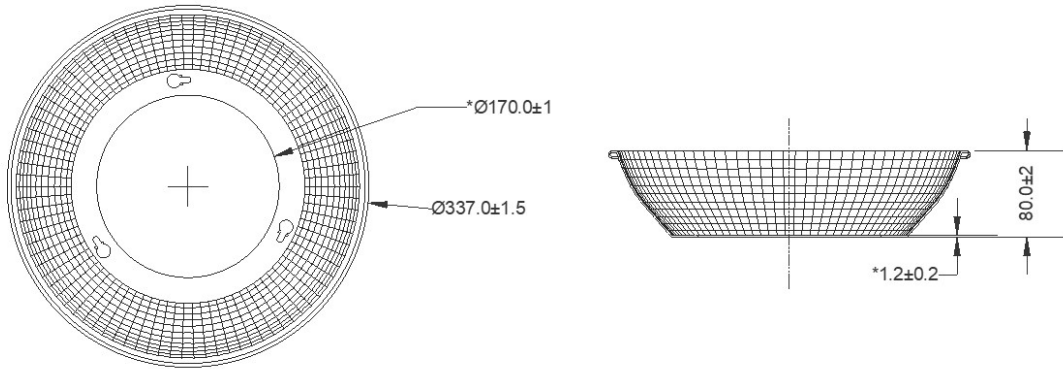
Reflector High Bay 210MM 60D

Parameter	Min	Typ	Max	Unit
Length	335.5	337	338.5	mm
Width	335.5	337	338.5	mm
Height 78	78	80	82	mm



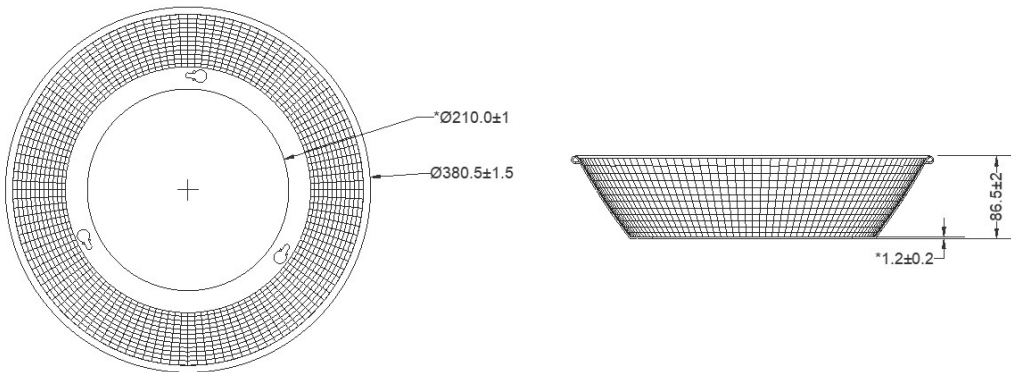
Reflector High Bay 210MM 90D

Parameter	Min	Typ	Max	Unit
Length	335.5	337	338.5	mm
Width	335.5	337	338.5	mm
Height 78	78	80	82	mm



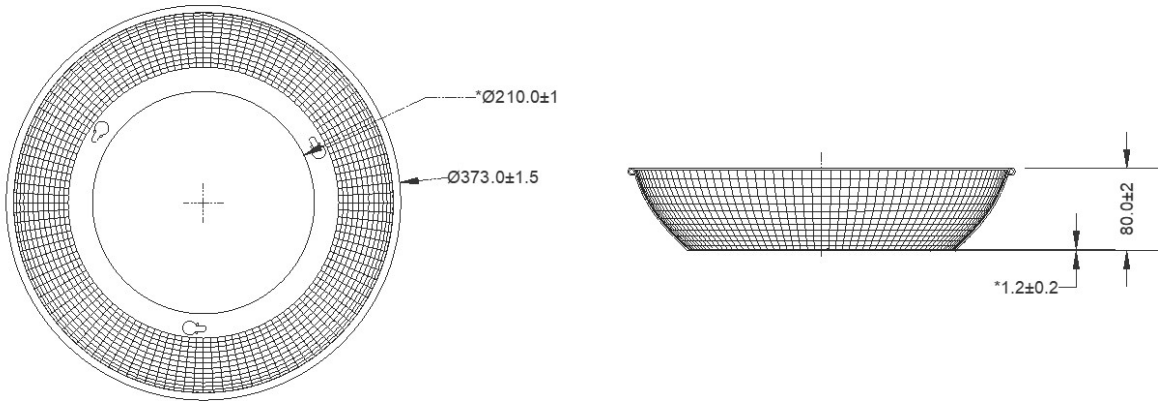
Reflector High Bay 310MM 60D

Parameter	Min	Typ	Max	Unit
Length	379	380.5	382	mm
Width	379	380.5	382	mm
Height 84.5	84.5	86.5	88.5	mm



Reflector High Bay 310MM 90D

Parameter	Min	Typ	Max	Unit
Length	379	380.5	382	mm
Width	379	380.5	382	mm
Height 84.5	84.5	86.5	88.5	mm



Absolute ratings

Parameter	Min	Typ	Max	Unit
Current through the LED module (I-max)			1050	mA
Case temperature (Tc-max)			95	°C
Ambient temperature	-30		50	°C

Application information

Certificates and Standards

CQC
CB

Application

IP rating	IP 65, IK 07
Dimming	Yes

Notes

The CertaFlux High Bay 20KLM modules are compatible with our Xi LP 220W 0.3-1.05A S1 230V I230C dim driver



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03/2018