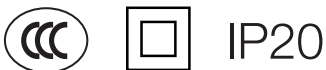


OPTIVALU® Sphere Light Datasheet



OPTIVALU® Sphere Light series has stylish design and changeable covers which suits different applications in dynamic and glamorous way. Five different covers and deeply recessed optical design allow the fixture to be perfectly concealed with different beam shapes and superior glare control. The adjustable die-cast housing elegantly fit in every commercial environments.

Benefits

Flexible product options

- 5 optical covers and 30° vertical adjustable housing allow for almost infinite fantastic beam shapes possibilities

Comfort

- Good optical design based on COB platform
- Different covers to offer different fantastic beam shapes
- Deeply recessed structure design to offer better glare control

Reliability

- Die-casting housing
- High-end spray finishing on whole surface

Applications

- Merchandise displays
- Commercial buildings
- Retail stores
- Shopping Malls
- Lobbies and corridors

OPTIVALU[®] Sphere Light

Technical Data

Optical Specifications

	Round-B1 Hole (Round rim, small round hole)	Round-B2 Hole (Round rim, big round hole)	Square Rim (Square rim, round hole)	Round-S Hole (Round rim, square hole)	Ellipse Hole (Round rim, ellipse hole)
Luminous Flux ¹	850 lm				
Efficacy ¹	78 lm/W				
CCT	3000K, 4000K				
CRI	80				
SDCM	<4				
Beam Angle	24°				

Electrical and Mechanical Specifications

Input Voltage	220-240V AC 50/60Hz					
Power Consumption	11W					
Power Factor	0.95					
Surge Protection	Line-to-line 1KV					
Dimensions	Diameter	90mm	107mm	90mm	90mm	90mm
	Height	97mm	95mm	97mm	97mm	97mm
Weight	0.31kg	0.34kg	0.33kg	0.32kg	0.31kg	
Cover Lens	PC diffuser					
Housing	Aluminium housing					

System Specifications

Power	AC line					
Dimmable	ON/OFF only					
Mounting Hole	82mm	92mm	82mm	82mm	82mm	
Installation Height	100mm					
Ceiling Thickness	2~20mm					
Operating Temperature	-15°C to +40°C					
Storage Temperature	-15°C to +80°C					
Environment	Indoor (IP20)					
Lumen Maintenance	L70 @25°C - 30,000hrs					
Safety Approval	Electrical Protection Class II, CB, CCC					

1. Lumen value measured without changeable covers.

Due to the special conditions of manufacturing process of LED, the typical data of technical parameters can only reflect statistical figures and do not necessarily correspond to the actual parameters of each single product which could differ from typical data.

Exceeding maximum ratings for operation voltage will cause hazardous overload and will likely destroy the LED module.

Exceeding maximum ratings for operation and storage temperature will reduce expected life time or destroy the LED module.

11/16 V1.5 · Specifications are subject to change without notice. Errors and omission excepted, always make sure to use the most recent release.

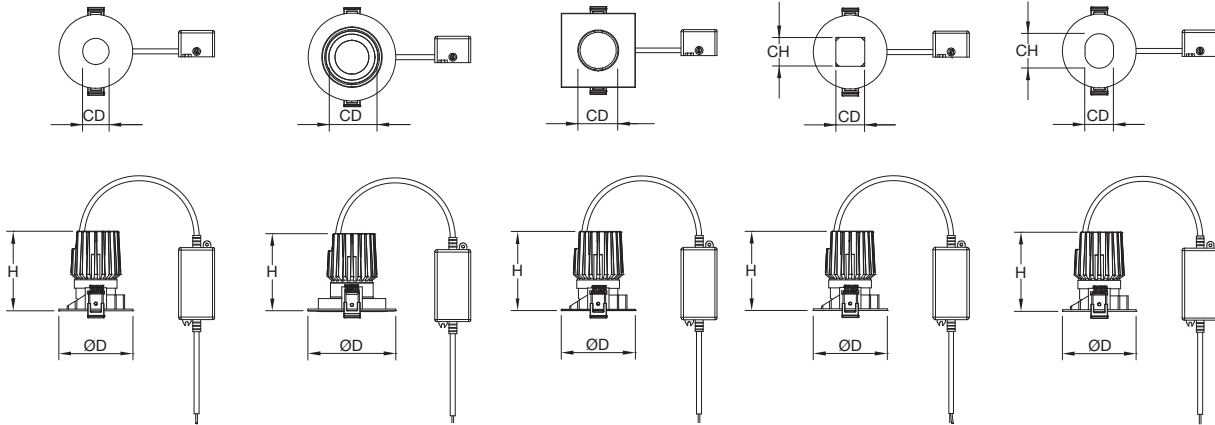
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OPTIVALU[®] Sphere Light

Dimensions

Round-B1 Hole Round-B2 Hole Square Rim Round-S Hole Ellipse Hole



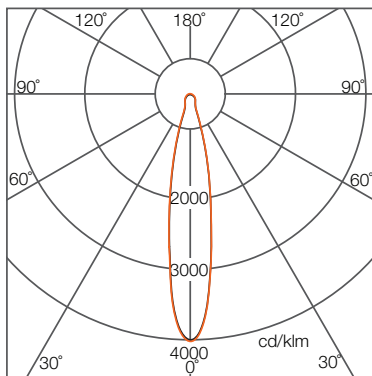
Dimensions

	Round-B1 Hole	Round-B2 Hole	Square Rim	Round-S Hole	Ellipse Hole
ØD	90mm	107mm	90mm	90mm	90mm
H	97mm	95mm	97mm	97mm	97mm
CD	32mm	56mm	50mm	35mm	35mm
CH	N/A	N/A	N/A	35mm	42mm

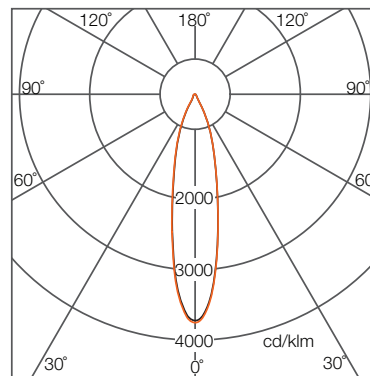
Photometrics

Light Distribution Curve

Round-B1 Hole



Round-B2 Hole



Illuminance at a distance

Distance	Center Beam Lux/klm		Beam Width	
	V	H	V	H
0.5m	16149	16149	0.17m	0.17m
1m	4037	4037	0.34m	0.34m
1.5m	1794	1794	0.51m	0.51m
2m	1009	1009	0.68m	0.68m
2.5m	646	646	0.85m	0.85m
3m	449	449	1.03m	1.03m

● Vert. Spread: 19.4°
 ● Horiz. Spread: 19.4°
 For feet multiply by 3.28
 For fc divide by 10.7

Distance	Center Beam Lux/klm		Beam Width	
	V	H	V	H
0.5m	15009	15009	0.20m	0.21m
1m	3752	3752	0.40m	0.41m
1.5m	1668	1668	0.60m	0.62m
2m	938	938	0.81m	0.82m
2.5m	600	600	1.01m	1.03m
3m	417	417	1.21m	1.23m

● Vert. Spread: 22.8°
 ● Horiz. Spread: 23.2°
 For feet multiply by 3.28
 For fc divide by 10.7

Due to the manufacturing processes of LED, the polar candela distribution and distance luminaries only reflect statistical figures and do not necessarily correspond to the actual parameters of individual product that may differ from the typical values.

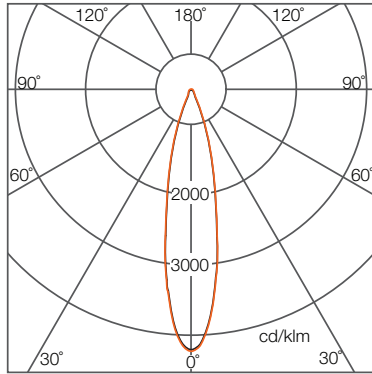
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OPTIVALU[®] Sphere Light

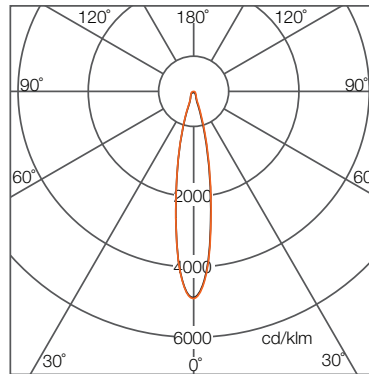
Photometrics

Light Distribution Curve

Square Rim



Round-S Hole



Illuminance at a distance

	Center Beam Lux/klm	Beam Width	
		V	H
0.5m	16571	0.19m	0.20m
1m	4143	0.39m	0.40m
1.5m	1841	0.58m	0.60m
2m	1036	0.78m	0.80m
2.5m	663	0.97m	1.00m
3m	460	1.17m	1.20m

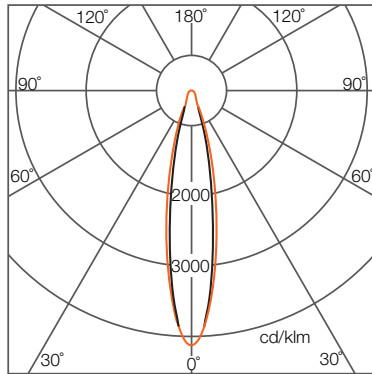
■ Vert. Spread: 22.0°
■ Horiz. Spread: 22.6°
 For feet multiply by 3.28
 For fc divide by 10.7

	Center Beam Lux/klm	Beam Width	
		V	H
0.5m	18496	0.17m	0.17m
1m	4624	0.33m	0.34m
1.5m	2055	0.50m	0.51m
2m	1156	0.67m	0.68m
2.5m	740	0.84m	0.85m
3m	514	1.00m	1.03m

■ Vert. Spread: 19.0°
■ Horiz. Spread: 19.4°
 For feet multiply by 3.28
 For fc divide by 10.7

Light Distribution Curve

Ellipse Hole



Illuminance at a distance

	Center Beam Lux/klm	Beam Width	
		V	H
0.5m	16720	0.17m	0.20m
1m	4180	0.33m	0.40m
1.5m	1858	0.50m	0.59m
2m	1045	0.67m	0.79m
2.5m	669	0.84m	0.99m
3m	464	1.00m	1.19m

■ Vert. Spread: 19.0°
■ Horiz. Spread: 22.4°
 For feet multiply by 3.28
 For fc divide by 10.7

Due to the manufacturing processes of LED, the polar candela distribution and distance luminaries only reflect statistical figures and do not necessarily correspond to the actual parameters of individual product that may differ from the typical values.

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OPTIVALU® Sphere Light

Ordering Codes

Fixture

Short Text	CCT	Material	EAN10	EAN40
OPTV Sphere Round-B1 Hole 830 24D 18X1 OSRAM	3000K	AM014700055	4052899467484	4052899467491
OPTV Sphere Round-B1 Hole 840 24D 18X1 OSRAM	4000K	AM014710055	4052899467507	4052899467514
OPTV Sphere Round-B2 Hole 830 24D 18X1 OSRAM	3000K	AM014720055	4052899467521	4052899467538
OPTV Sphere Round-B2 Hole 840 24D 18X1 OSRAM	4000K	AM014730055	4052899467545	4052899467552
OPTV Sphere Square Rim 830 24D 18X1 OSRAM	3000K	AM014760055	4052899467606	4052899467613
OPTV Sphere Square Rim 840 24D 18X1 OSRAM	4000K	AM014770055	4052899467620	4052899467637
OPTV Sphere Round-S Hole 830 24D 18X1 OSRAM	3000K	AM014680055	4052899467446	4052899467453
OPTV Sphere Round-S Hole 840 24D 18X1 OSRAM	4000K	AM014690055	4052899467460	4052899467477
OPTV Sphere Ellipse Hole 830 24D 18X1 OSRAM	3000K	AM014740055	4052899467569	4052899467576
OPTV Sphere Ellipse Hole 840 24D 18X1 OSRAM	4000K	AM014750055	4052899467583	4052899467590