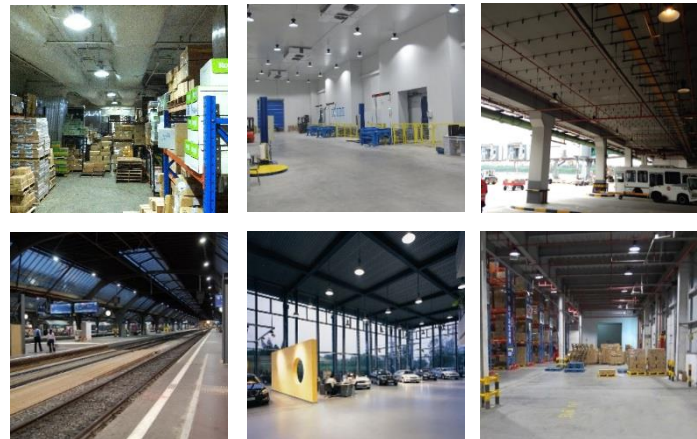




VARIO LED HIGH BAY LIGHT



Optimal Optical Design

The simply but smartly designed diffuser gives an even distribution of light vertically and horizontally. Being able to choose lampshades allows a choice of beam angle, and an all around gives a rich light.



Multiple Angles

Depending on the application, a choice of lampshades gives you the option to choose the one to best fit your environment, from the right beam angle to the right aesthetic.



Modular Design

The modular design of this high bay enables the LED to be replaced as simple as replacing a traditional light bulb. This way, upgrading to the latest and greatest chipset without having to replace the whole luminaire.



Convenient Maintenance

With the modular design being so flexible, it makes the rare need for maintenance – with simple replacement of LED and power supply – even more convenient, as well as saving the maintenance crew's time for more important issues.



Energy Saving

The combination of high-efficacy LED components with excellent whole system design has SONARAY LED lighting achieving energy savings of 40% - 80% compared with traditional lighting sources.



Quality Core Component

Excellent luminaire design to the core: starting with the LED packages themselves. These luminaires only use high quality COB packages from CITELED – chipsets that have great quality and long life as backed by LM-80 and TM-21 reports. Quality inside the luminaires that shines from the outside.

SONARAY™

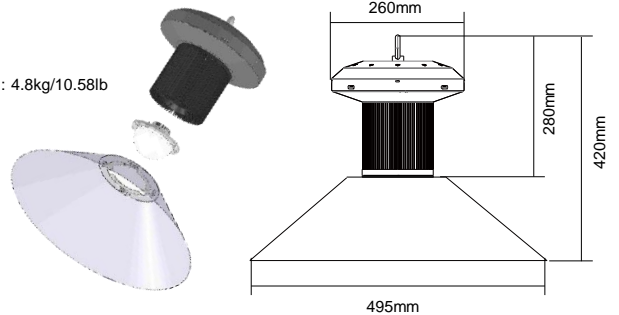
VARIO LED HIGH BAY LIGHT 100W

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Specifications

Material: Aluminum
Housing Color: Black (optional: silver)
Driver: Built-in
Input Voltage: AC90-277V ~ 50/60Hz
Power Factor: ≥ 0.9
Weight (Light Engine and Empire-shaped Lampshade): 4.8kg/10.58lb
Operating Temperature: -20°C~+40 °C, -4°F~+104°F
Lifetime: $\geq 40,000$ hrs



Light Engine



Empire-shaped
Lampshade



Specifications for matching Empire-shaped Lampshade

Model No.	Power	Luminous Flux	Luminous Efficacy	Color Temperature	CRI	Beam Angle
	(W)	(lm)	(lm/W)	(K)	(Ra)	(°)
HB-2100A	100	12000	120	5000	65	75

Other optional lampshade:



Diffuser (For empire-shaped lampshade 90°)

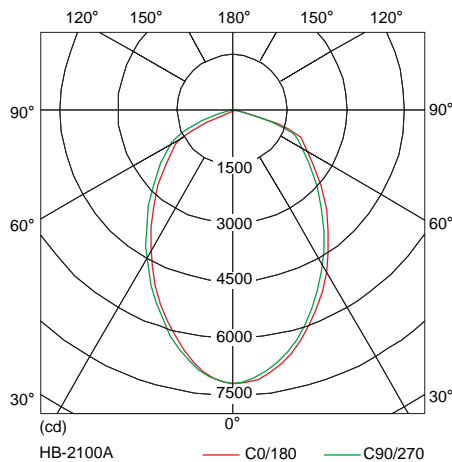


Bell-shaped lampshade – big
(Ø420mm*255mm 60°)



Clear lampshade – big
(Ø410mm*255mm 70°)

Light Distribution Curve for matching Empire-shaped Lampshade



Illuminance Distribution for matching Empire-shaped Lampshade

HB-2100A	H(m)	E(lx)	D(cm)
1	7461	151	
2	1865	302	
3	829	454	
4	466	605	
5	298	757	
6	207	908	
7	152	1060	
8	117	1211	
9	92	1362	
10	75	1514	
11	62	1665	
12	52	1816	
13	44	1968	
14	38	2119	
15	33	2271	

Order Direction for Lamp engine

Specifica tions	Luminous Efficacy	Color Temper ature	CRI	Order No.
Max Bright	120Lm/w	5000K	Ra 65	UL: HB-2100A-114 CE/RCM: HB-2100A-118
Energy Saver	110Lm/w	5000K	Ra 65	CE/RCM: HB-2100A-116
True Color	88Lm/w	5000K	Ra 80	UL: HB-2100A-113 CE/RCM: HB-2100A-115

Order Direction for Lampshade

Accessories	Order No.
Empire-shaped lampshade	HB-2000A-A
Diffuser (for empire-shaped lampshade)	HB-2000A-G
Bell-shaped lampshade-big	HB-2000A-C
Clear lampshade-big	HB-2000A-F

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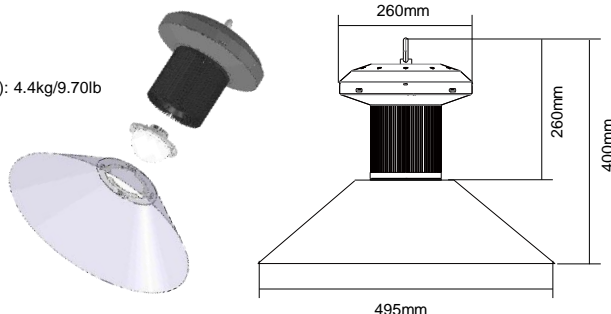
VARIO LED HIGH BAY LIGHT 85W

SONARAY™



Specifications

Material: Aluminum
Housing Color: Black (optional: silver)
Driver: Built-in
Input Voltage: AC90-277V ~ 50/60Hz
Power Factor: ≥ 0.9
Weight (Light Engine and Empire-shaped lampshade): 4.4kg/9.70lb
Operating Temperature: -20°C~+40°C, -4°F~+104°F
Lifetime: ≥ 40,000hrs



Light Engine



Empire-shaped
Lampshade



Specifications for matching Empire-shaped Lampshade

Model No.	Power	Luminous Flux	Luminous Efficacy	Color Temperature	CRI	Beam Angle
	(W)	(lm)	(lm/W)	(K)	(Ra)	(°)
HB-2085A	85	10625	125	5000	65	75

Other optional lampshade:



Diffuser (For empire-shaped lampshade 90°)

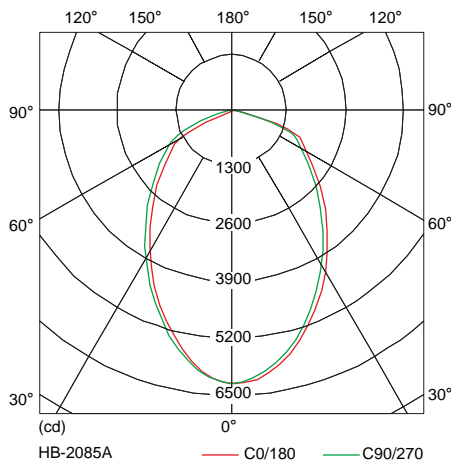


Bell-shaped lampshade – big
(Ø420mm*255mm 60°)



Clear lampshade – big
(Ø410mm*255mm 70°)

Light Distribution Curve for matching Empire-shaped Lampshade



Illuminance Distribution for matching Empire-shaped Lampshade

HB-2085A	H(m)	E(lx)	D(cm)
1	6331	150	
2	1583	301	
3	703	452	
4	396	602	
5	253	753	
6	176	903	
7	129	1054	
8	99	1204	
9	78	1355	
10	63	1506	
11	52	1656	
12	44	1807	
13	37	1958	
14	32	2108	
15	28	2259	

Order Direction for Lamp engine

Specifications	Luminous Efficacy	Color Temperature	CRI	Order No.
Max Bright	125Lm/w	5000K	Ra 65	UL: HB-2085A-113 CE/RCM: HB-2085A-116
Energy Saver	110Lm/w	5000K	Ra 65	CE/RCM: HB-2085A-114
True Color	88Lm/w	5000K	Ra 80	UL: HB-2085A-112 CE/RCM: HB-2085A-115

Order Direction for Lampshade

Accessories	Order No.
Empire-shaped lampshade	HB-2000A-A
Diffuser (for empire-shaped lampshade)	HB-2000A-G
Bell-shaped lampshade-big	HB-2000A-C
Clear lampshade-big	HB-2000A-F

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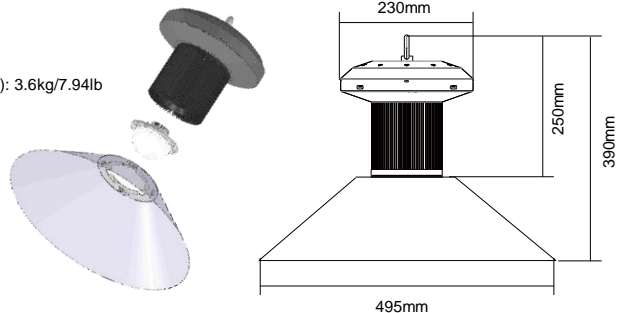
VARIO LED HIGH BAY LIGHT 65W

SONARAY™



Specifications

Material: Aluminum
Housing Color: Black (optional: silver)
Driver: Built-in
Input Voltage: AC90-277V ~ 50/60Hz
Power Factor: ≥ 0.9
Weight (Light Engine and Empire-shaped lampshade): 3.6kg/7.94lb
Operating Temperature: -20°C~+40°C, -4°F~+104°F
Lifetime: $\geq 40,000$ hrs



Light Engine



Empire-shaped
Lampshade



Specifications for matching Empire-shaped Lampshade

Model No.	Power	Luminous Flux	Luminous Efficacy	Color Temperature	CRI	Beam Angle
	(W)	(lm)	(lm/W)	(K)	(Ra)	(°)
HB-2065A	65	6500	100	5000	65	75

Other optional lampshade:



Diffuser (For empire-shaped lampshade 90°)

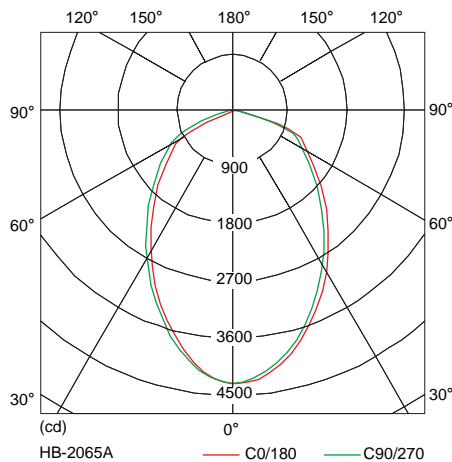


Bell-shaped lampshade – big
(Ø420mm*255mm 60°)



Clear lampshade – small
Only apply to CE/RCM
version (Ø350mm*190mm
55°)

Light Distribution Curve for matching Empire-shaped Lampshade



Illuminance Distribution for matching Empire-shaped Lampshade

HB-2065A	H(m)	E(lx)	D(cm)
1	4101	138	
2	1025	276	
3	456	414	
4	256	552	
5	164	690	
6	114	828	
7	84	966	
8	64	1104	
9	51	1242	
10	41	1380	
11	34	1518	
12	28	1657	
13	24	1795	
14	21	1933	
15	18	2071	

Order Direction for Lamp engine

Specifications	Luminous Efficacy	Color Temperature	CRI	Order No.
Max Bright	100Lm/w	5000K	Ra 65	UL: HB-2065A-112 CE/RCM: HB-2065A-114
True Color	82Lm/w	5000K	Ra 80	UL: HB-2065A-111 CE/RCM: HB-2065A-113

Order Direction for Lampshade

Accessories	Order No.
Empire-shaped lampshade	UL: HB-2000A-A CE/RCM: HB-2000A-B
Diffuser (for empire-shaped lampshade)	HB-2000A-G
Bell-shaped lampshade-big	UL: HB-2000A-C CE/RCM: HB-2001A-D
Clear lampshade-small	CE/RCM: HB-2000A-E

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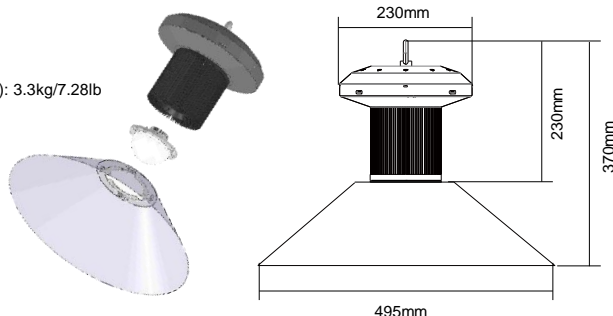
VARIO LED HIGH BAY LIGHT 45W

SONARAY™



Specifications

Material: Aluminum
Housing Color: Black (optional: silver)
Driver: Built-in
Input Voltage: AC90-277V ~ 50/60Hz
Power Factor: ≥ 0.9
Weight (Light Engine and Empire-shaped lampshade): 3.3kg/7.28lb
Operating Temperature: -20°C~+40 °C, -4°F~+104°F
Lifetime: ≥ 40,000hrs



Light Engine



Empire-shaped
Lampshade



Specifications for matching Empire-shaped Lampshade

Model No.	Power	Luminous Flux	Luminous Efficacy	Color Temperature	CRI	Beam Angle
	(W)	(lm)	(lm/W)	(K)	(Ra)	(°)
HB-2045A	45	4635	103	5000	65	75

Other optional lampshade:



Diffuser (For empire-shaped lampshade 90°)

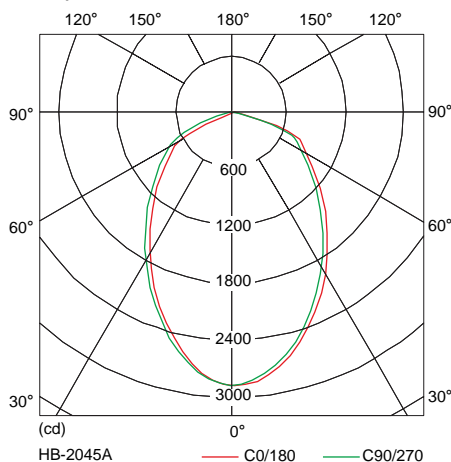


Bell-shaped lampshade – big
(Ø420mm*255mm 60°)



Clear lampshade-small
Only apply to CE/RCM
version (Ø350mm*190mm
55°)

Light Distribution Curve for matching Empire-shaped Lampshade



Illuminance Distribution for matching Empire-shaped Lampshade

HB-2045A	H(m)	E(lx)	D(cm)
1	2871	138	
2	718	275	
3	319	413	
4	179	551	
5	115	689	
6	80	827	
7	59	965	
8	45	1103	
9	35	1240	
10	29	1378	
11	23	1516	
12	20	1654	
13	17	1792	
14	15	1930	
15	13	2068	

Order Direction for Lamp engine

Specifica tions	Luminous Efficacy	Color Temperatu re	CRI	Order No.
Max Bright	115Lm/w	5000K	Ra 65	UL: HB-2045A-112 CE/RCM: HB-2045A-114
True Color	84Lm/w	5000K	Ra80	UL: HB-2045A-111 CE/RCM: HB-2045A-113

Order Direction for Lampshade

Accessories	Order No.
Empire-shaped lampshade	UL: HB-2000A-A CE/RCM: HB-2000A-B
Diffuser (for empire-shaped lampshade)	HB-2000A-G
Bell-shaped lampshade-big	UL: HB-2000A-C CE/RCM: HB-2001A-D
Clear lampshade-small	CE/RCM: HB-2000A-E

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