

Standard lumen (140lm/W)

Model	Nominal wattages (W)	Nominal voltage	Rated luminous efficacy (lm/w)	Nominal luminous flux (lumen)	Beam Angle	LED Quantity	CRI
HB09-100W	100W	AC100~277V 50~60Hz	140±10	14000±1000	90°/120°	168 PCS 1W 3030	>70
HB09-150W	150W		140±10	21000±1500		168 PCS 1W 3030	
HB09-200W	200W		140±10	28000±2000		252 PCS 1W 3030	

Lumen Plus (170lm/W)

Model	Nominal wattages (W)	Nominal voltage	Rated luminous efficacy (lm/w)	Nominal luminous flux (lumen)	Beam Angle	LED Quantity	CRI
HB09-100W	100W	AC100~277V 50~60Hz	170±10	17000±1000	90°/120°	210 PCS 1W 2835	>70
HB09-150W	150W		170±10	25500±1500		315 PCS 1W 2835	
HB09-200W	200W		170±10	34000±2000		405 PCS 1W 2835	

Electrical data

Photometrical data

Operating frequency	47-63HZ	Available light colors	warm white;natural white;daylight white
Type of current	AC100-277V	Available color temperatures	3000K;4000K;5000K;6000K
Power factor λ	>0.95	Color rendering index Ra	>70
Efficiency in %	>91%	Standard deviation of color matching	<5
Start time (0.2s / 0.5s / ...)	0.1S	UGR (Unified Glare Rating)	<27
Warm-up time to 60 % (1.5s / 2s / ...)	0.5S	Available beam angles	90°/120°

Standards & Certification

Temperatures & operating conditions

Type of protection	IP65	Heatsink temperature	5~+70°C
Tested dielectric strength	3.75KVac	Ambient temperature	-30~+55°C
Safety features	Open circuit protection; short circuit protection ; overvoltage protection	Storage temperature	-40~+80°C
Certificates	American market: UL, DLC Premium, cUL European market: TUV,CE (EMC, LVD, RoHS) Australian market: SAA, C-Tick, RCM		
Energy efficiency class	A+&A++		

Lifespan

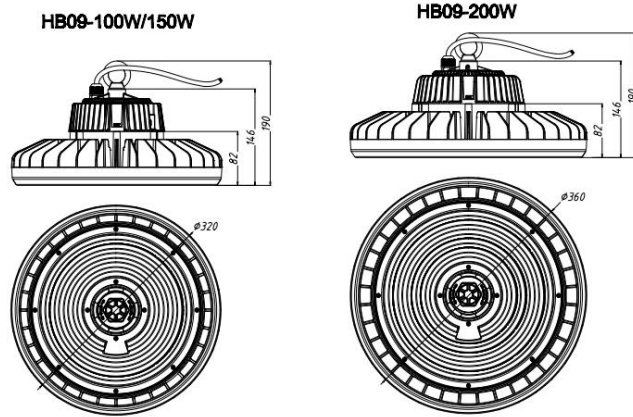
Features/Capabilities and additional product data

Rated nominal Lifetime	50,000hours	Base/Socket	Directly wired
Switching cycles	100,000 times	Dimmable	1-10V dimmable
Lumen maintenance at e.o.l.	70%		

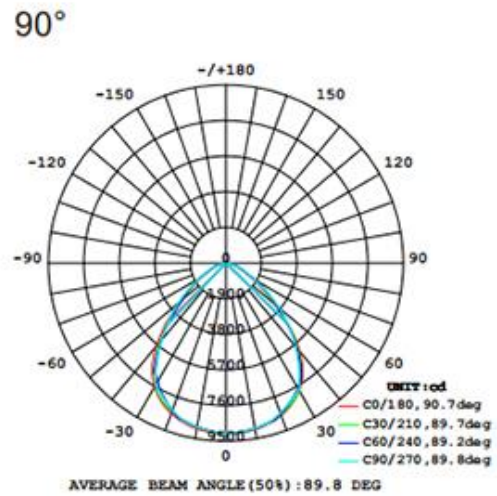
Packing Information

Model	Dimension	CTN SIZE(mm)	QTY/CTN	Net Weight/pcs(kg)	Gross Weight /CTN(kg)
HB09-100W/150W	Φ380*188	37*37*23	1PCS	3.8	4.8
HB09-200W	Φ360*188	41*41*23	1PCS	5.3	6.5

PRODUCT DIMENSION



LIGHT DISTRIBUTION CURVE



120°

