



LED Ultra II High Bay Range

The Ultra II is our latest series with market leading efficiency derived from high performance Nichia chips.

The Ultra II High Bay now also has a bigger heat sink, plus more chips at each wattage to drive even higher output and further improve longevity.

A graphene wafer is used to bond the PCB to the heat sink for greater thermal conductivity and, unlike thermal grease, it won't deteriorate.

- 60W to 240W models available
- Nichia chips from Japan with efficacy exceeding 180lm/W
- High Specification Meanwell drivers – the global leader in lighting power supply
- Independently tested total fixture Efficacy up to 162lm/W
- 60°, 90° and 120° beam options
- Only 7% Light Loss after 60,000hrs
- Every lamp is tested after manufacture to ensure output and colour are in accordance with specifications
- 5 year warranty



Performance Specifications

- Nichia chips last over 60,000hours to 90% lumen maintenance (L₉₀ using TM-21)
- Mean Well drivers with 190,000 to 300,000 hour average life rating (MTBF at 25°C for 240W and 100W drivers respectively)
- Protection Against: Short circuit / Over current / Over voltage / Over temperature
- Large, Cold Forged High Purity Aluminium heat sink with 2.6 times the thermal conductivity of traditional alloys used for lamps
- IP65
- Dimmable with Intelligent Lighting Control options available (daylight harvesting, presence control & combination) to further reduce energy consumption

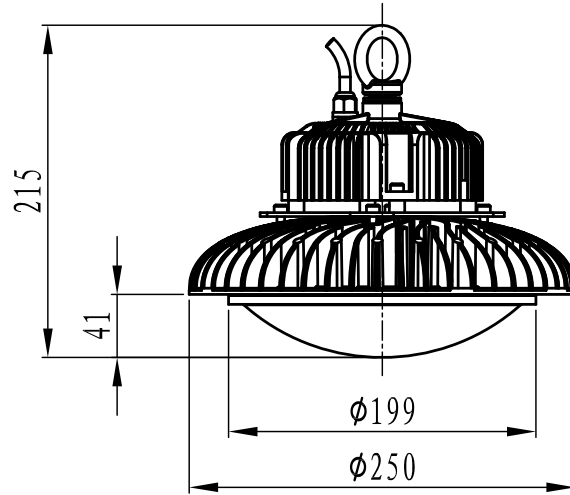
Model	Power	Nichia 757GR-V1 Chip Count	Independent Lab Test Im/W	Typical Light Output*	Ambient Temp Rating	Colour Temp	CRI	Power Factor
U2HBM-060	60W	170	158.8	8,050 lm	Standard Model -40°C to +50°C High Ambient Temperature Zone Options Available	5000K (2700-5500K available) ≤ 2.5 SDCM	Standard 75 High CRI Option Available	>0.96
U2HBM-080	80W	210	153.3	10,800 lm				
U2HBM-100	100W	250	159.0	15,300 lm				
U2HBM-120	120W	320	155.0	18,300 lm				
U2HBM-150	150W	380	162.2	23,200 lm				
U2HBM-180	180W	420	158.7	27,000 lm				
U2HBM-240	240W	600	151.3	35,000 lm				

*Based on typical configuration. Refer to Lens information

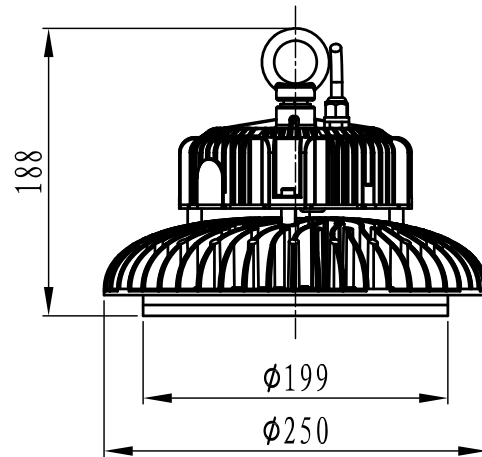


Dimensions

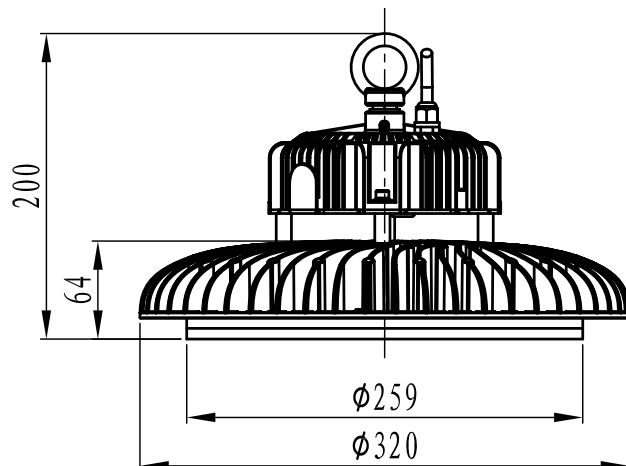
60W, 80W



100W, 120W



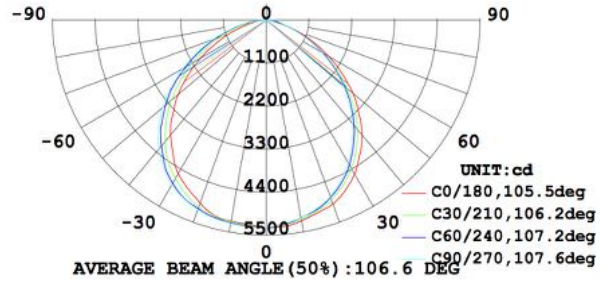
150W, 180W, 240W



Optical and Reflectors

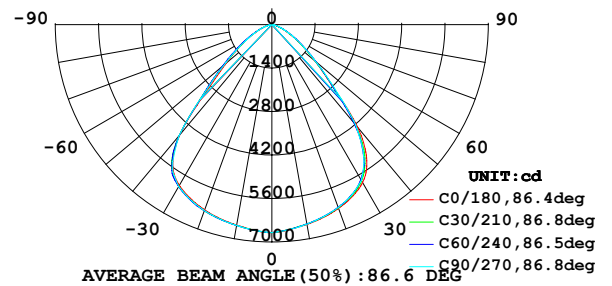
Half Frosted, Half Opal Lens

Low Glare Solution with Wide Beam
Designed for Low Ceiling Use



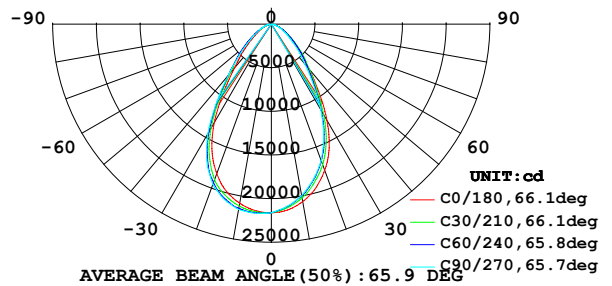
Annular 90° Lens

Standard on 100W, 120W, 150W Models



Annular 60° Lens

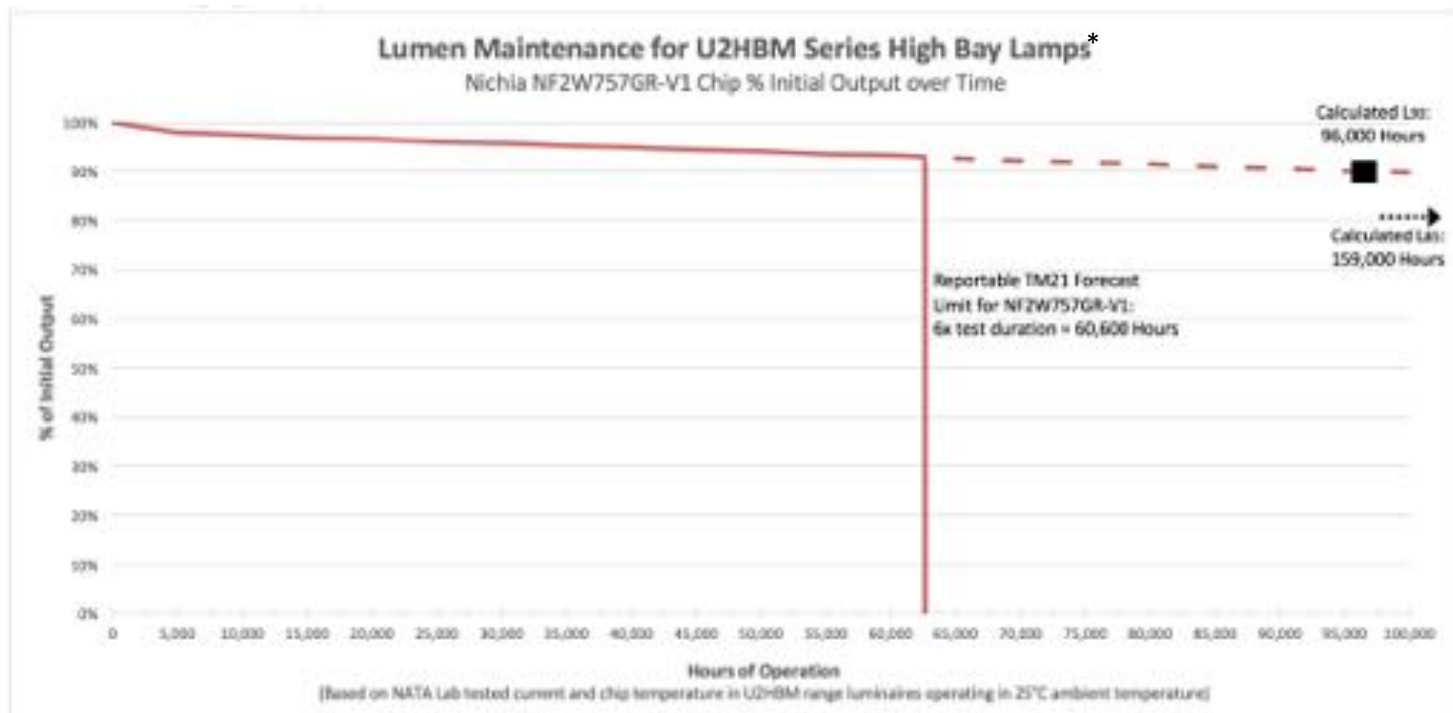
Standard on 180W and 240W Models



Aluminium and Prismatic Reflector options available



Lumen Maintenance & Lifetime



Tolerances	Applicable LM-80 Test Results			
Chip Tolerances Specification from Nichia	Actual Operation	LM-80 Test Results – TM-21 Calculations *		
		Lifetime	Calculated Lifespan	Reportable Lifespan
100°C Case Temperature 200 mA Drive Current	45.2 – 74.5°C Highest Case Temperature (Most Models 61-67°C) 53-70mA Drive Current	L ₇₀	372,000 Hrs	60,600 Hrs
		L ₈₅	159,000 Hrs	60,600 Hrs
		L ₉₀	96,000 Hrs	60,600 Hrs

*Forecast data applies to all models except U2HBM-240. U2HBM-240 has a calculated L₉₀ of 72,000 hours and reportable lifespan of 60,600 hours.

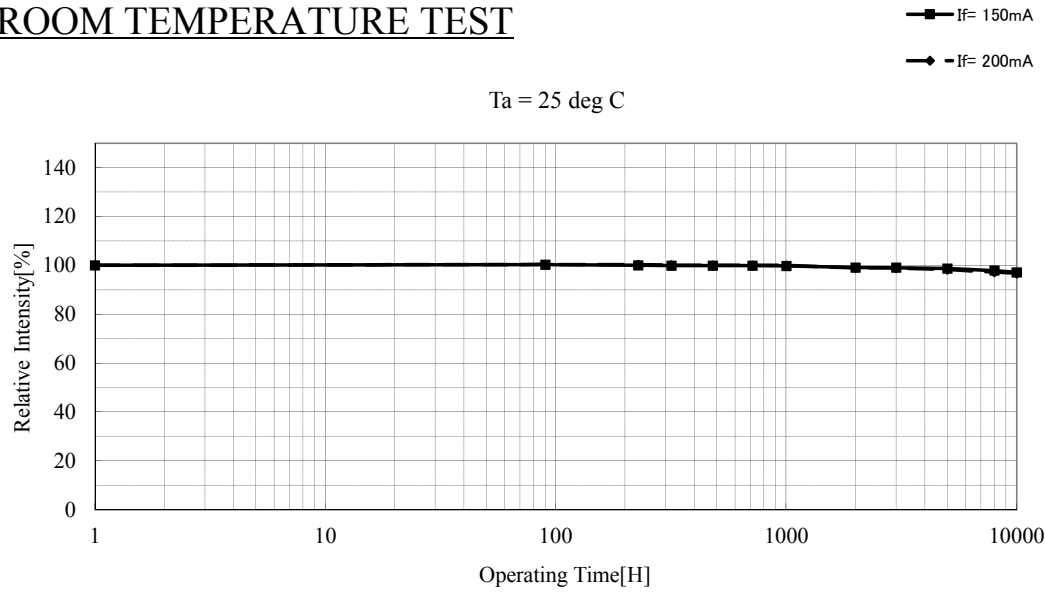
Chip lifetime information (L90B10, L70B50 etc) is available on request. However as most LED chip lifetime data is not produced by independent laboratories, some claims on these values can be highly dubious. Using lifetime data as a comparison tool or selection criteria is strongly discouraged.

NF2W757GR-V1 WHITE LED Life Data

Samples : 10000H 8pcs.
Reflow : 260°C MAX
Rja ≈ 34°C/W

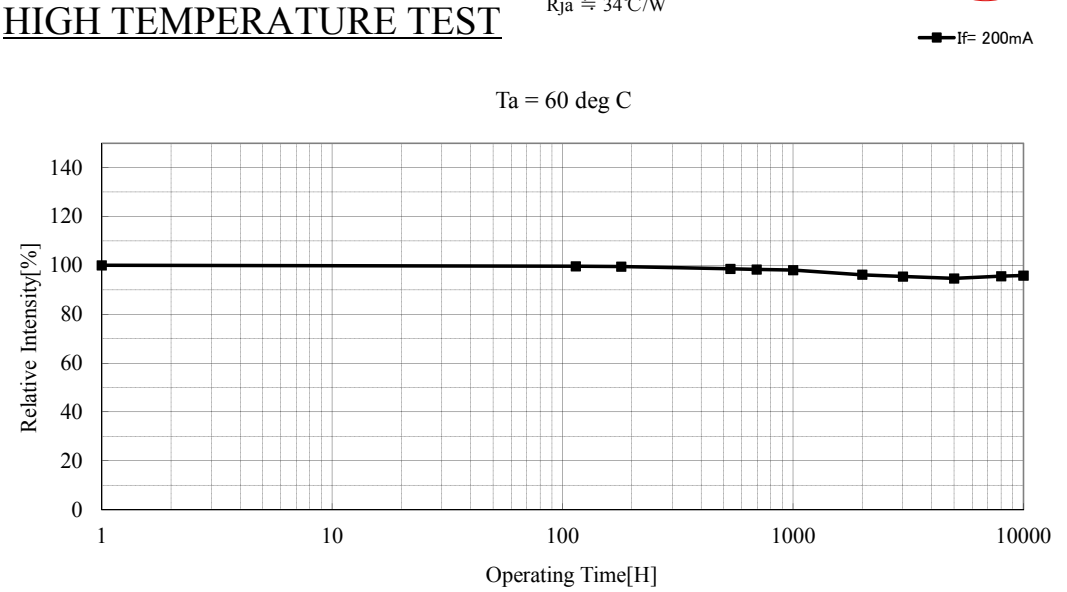
ROOM TEMPERATURE TEST

Ta = 25 deg C



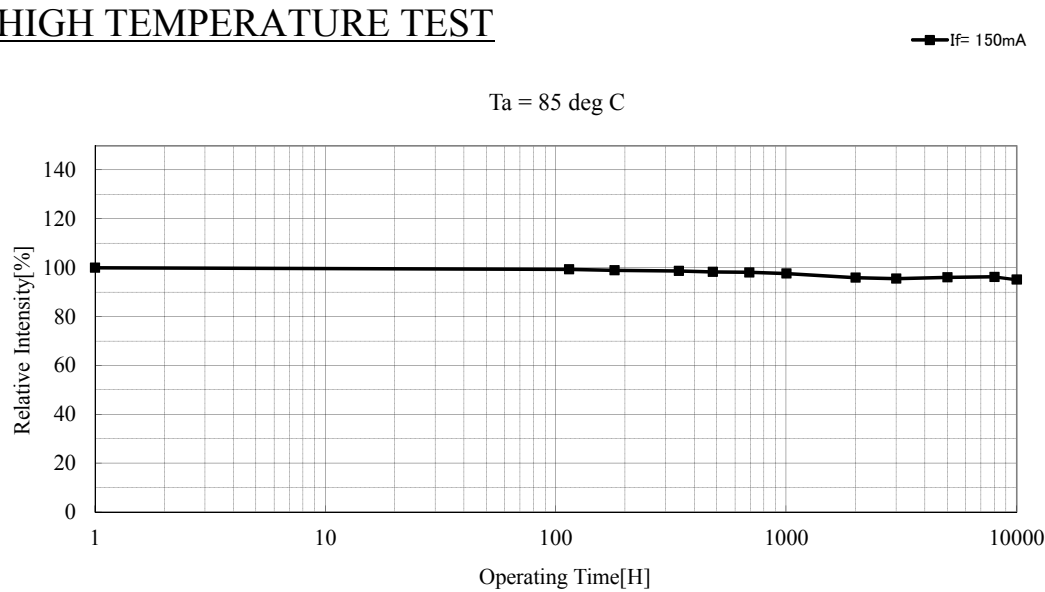
HIGH TEMPERATURE TEST

Ta = 60 deg C



HIGH TEMPERATURE TEST

Ta = 85 deg C



HIGH TEMPERATURE & HIGH HUMIDITY

Ta = 60 deg C, RH = 90%

