



Ultra II Warehouse Aisle LED High Bay

- Specifically designed for pallet racking aisles with 40°x80° and 55°x130° beam options to suit different heights and aisle widths (angles are to half peak intensity)
- Illuminates the shelf face all the way to the floor without over-illuminating next to the lamps
- Suitable for operation in ambient temperatures from -40 to +60° C
- High grade Nichia chips with less than 7% light loss after 60,000 hours
- Mean Well drivers with 192,000 hour average life rating (MTBF at 25°C)
- IP65: Aluminium alloy housing with anti-corrosive coating, polycarbonate lens
- Protection Against: Short circuit / Over current / Over voltage / Over temperature
- Easy Upgrade: replaceable driver and chip arrays
- Bracket Mount, Cable Mount, Pole Mount options
- Seven year warranty



| Model | Power | Qty Nichia 757GR-V1 | Typical Light Output | Lens Configuration <small>(Alternates available on Special Order)</small> | Colour Temp | CRI | Power Factor |
|----------|-------|---------------------|----------------------|--|--|-----|--------------|
| U2AL-070 | 70W | 144 | 10,100lm | 55° x 130° | 5000K <small>(2700-5500K available)</small> ≤ 2.5 SDCM | 73 | >0.96 |
| U2AL-090 | 90W | 144 | 12,900lm | 55° x 130° | | | |
| U2AL-120 | 120W | 192 | 17,500lm | 40° x 80° | | | |
| U2AL-150 | 150W | 240 | 20,700lm | 40° x 80° | | | |
| U2AL-180 | 180W | 288 | 24,850lm | 40° x 80° | | | |
| U2AL-210 | 210W | 336 | 29,000lm | 40° x 80° | | | |
| U2AL-240 | 240W | 384 | 33,100lm | 40° x 80° | | | |

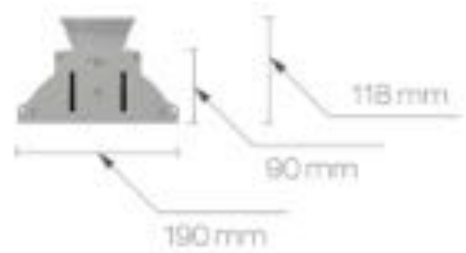
Dimensions

70W 90W

3 x 48pcs = 144 pcs
Nichia NF2W757GR-V1



4.6kg



120W

4 x 48pcs = 192 pcs
Nichia NF2W757GR-V1



4.7kg

150W

5 x 48pcs = 240 pcs
Nichia NF2W757GR-V1



6.2kg

180W

6 x 48pcs = 288 pcs
Nichia NF2W757GR-V1



6.3kg

210W

7 x 48pcs = 336 pcs
Nichia NF2W757GR-V1



8.0kg

240W

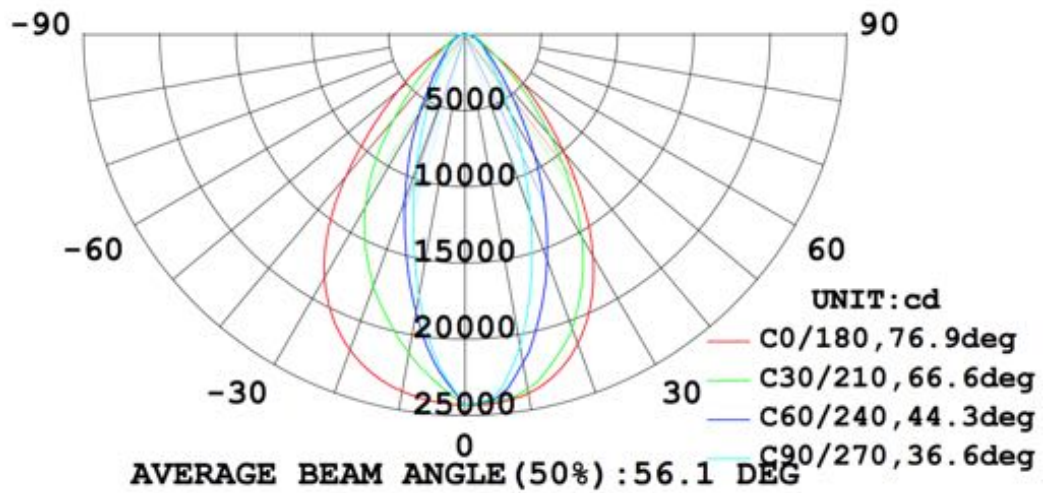
8 x 48pcs = 384 pcs
Nichia NF2W757GR-V1



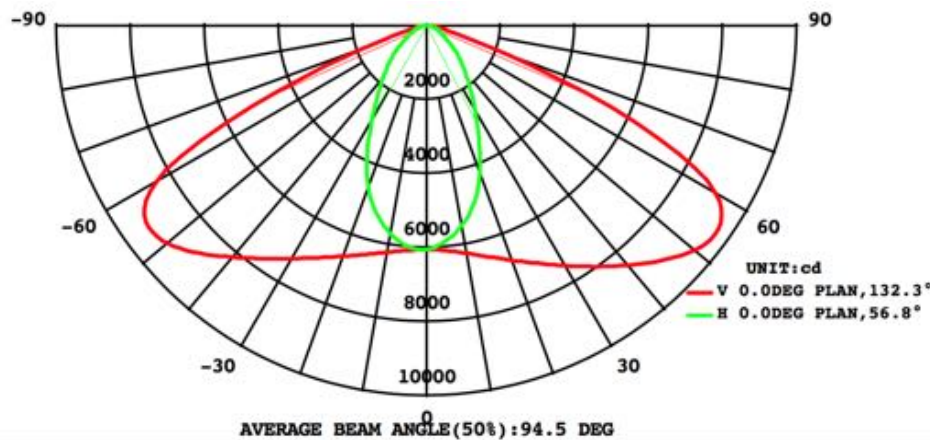
8.1kg

Photometry

40° x 80° Beam Option



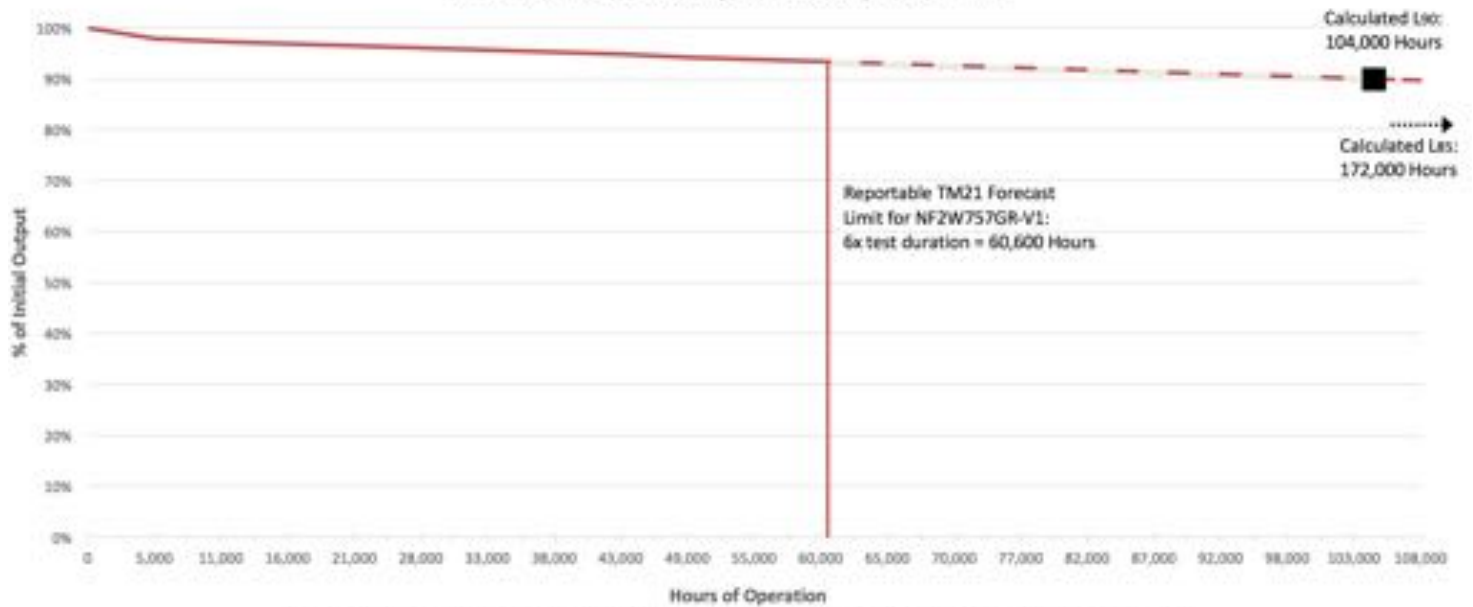
55° x 130° Beam Option



Lumen Maintenance & Lifetime

Lumen Maintenance for U2AL Series High Bay Lamps

Nichia NF2W757GR-V1 Chip % Initial Output over Time



(Based on NATA Lab tested current and chip temperature in U2AL range luminaires operating in 25°C ambient temperature)

| 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 | 47.5 – 60.6°C Highest Case Temperature | L ₇₀ | 404,000 Hrs | 60,600 Hrs |
| 200 mA Drive Current | 74-101mA Drive Current | L ₈₅ | 172,000 Hrs | 60,600 Hrs |
| | | L ₉₀ | 104,000 Hrs | 60,600 Hrs |

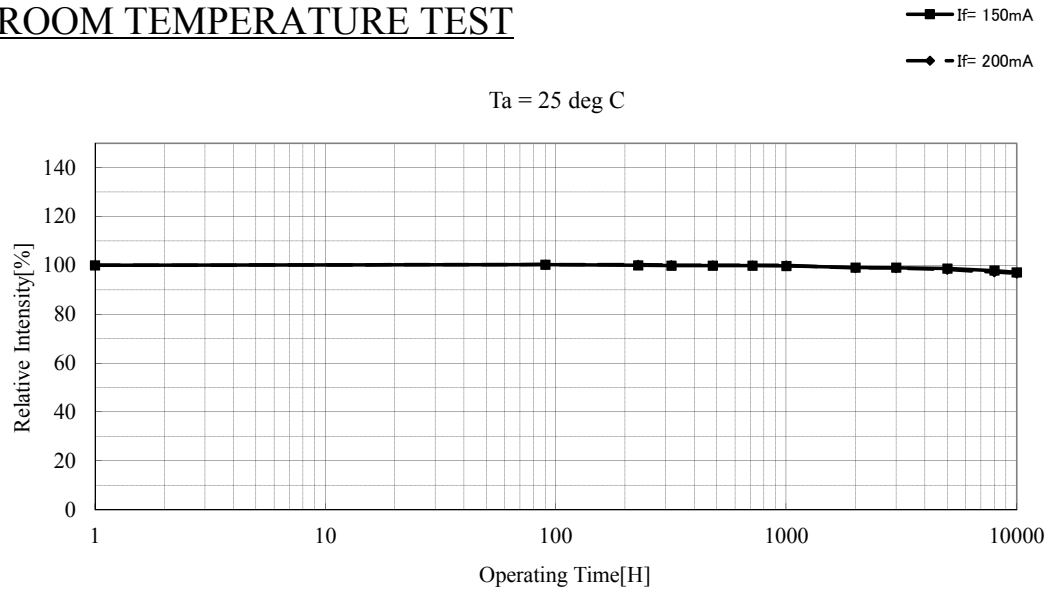
Chip lifetime information (L90B10, L70B50 etc) is available on request. However as most LED chip lifetime data is not produced by independent laboratories, some claims on these values can be highly dubious. Using lifetime data as a comparison tool or selection criteria is strongly discouraged.

NF2W757GR-V1 WHITE LED Life Data

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

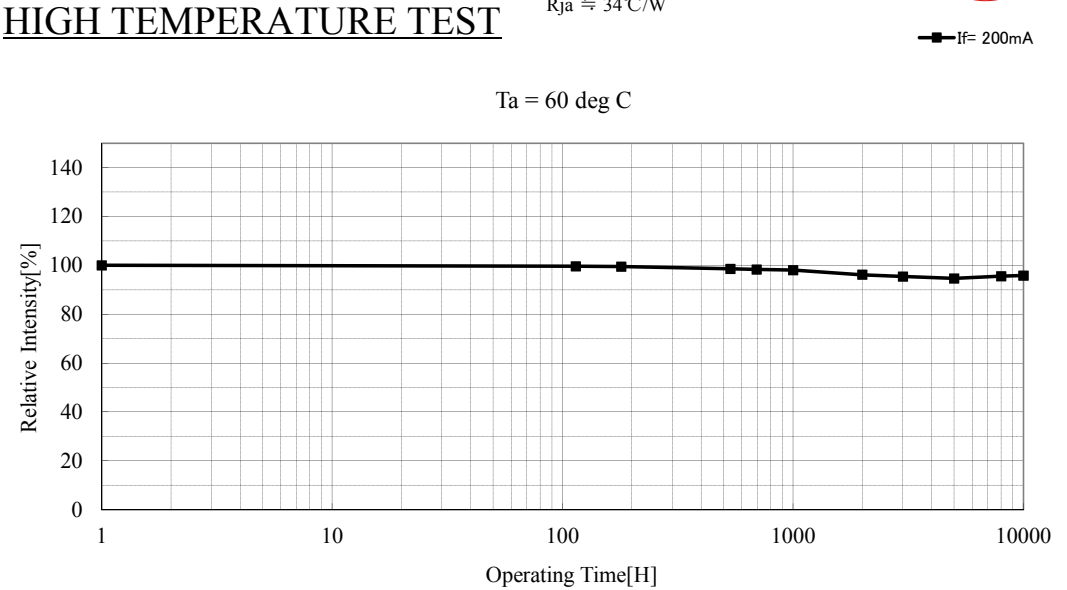
ROOM TEMPERATURE TEST

Ta = 25 deg C



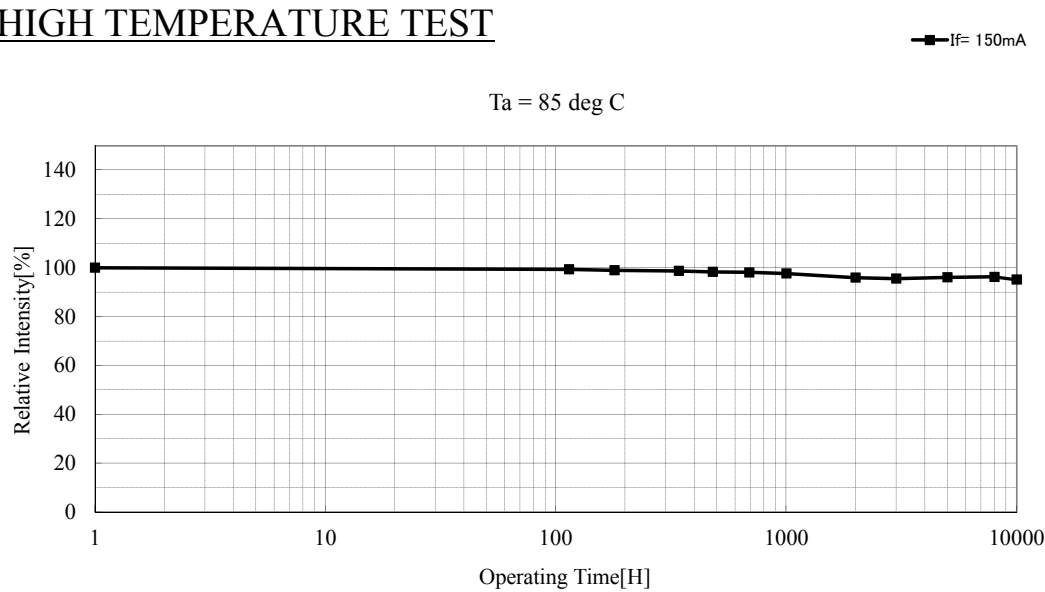
HIGH TEMPERATURE TEST

Ta = 60 deg C



HIGH TEMPERATURE TEST

Ta = 85 deg C



HIGH TEMPERATURE & HIGH HUMIDITY

Ta = 60 deg C, RH = 90%

