

LED VOCARE-LEDlight MBN200 Rechthoekige downlights

BESCHRIJVING VAN HET PRODUCT

Deze LED Downlight 35W Rechthoekige / Shopfitter is ontworpen om de 70-150W metaalhalogenide rechthoekige downlight (bijvoorbeeld : Philips MBN200) te vervangen. Het wordt geleverd als een complete eenheid (LED rechthoekig Downlight, LED-driver en 1 meter flex kabel) klaar voor installatie. De 50.000 uur LED levensduur is ideaal voor winkels, supermarkten, entree en de receptie en andere voorzieningen in toepassingen waarbij lange uren verlichtingstoepassing is vereist.

De hoge lichtopbrengst en een laag energieverbruik en tot 80% energiebesparing.

De LG SMD5630 LED-chips kunnen tot 2900 lumen produceren met een uitzonderlijke kleurweergave door de matte lens. Tilt hoek kan worden ingesteld tot 60 °.

De LED Rechthoekige Downlight heeft twee snelle montage plafond clips die stevig vasthouden aan alle soorten plafonds.

- Directe vervanging voor 70-150W metaalhalogenide rechthoekige downlight
- Verkrijgbaar in warm wit (3000K), Natural White (4000K), Cool White (5500K)
- Plug & Play (complete unit met LED-driver)
- Tot 76% energiebesparing
- Helderheid tot 2900 lm
- Dimmen is optioneel met TRIAC-driver
- Lange levensduur: 50.000 uur (LED-lamp), 30.000 uur (LED Driver)
- Besparing op airconditioning kosten als gevolg van aanzienlijk minder warmte gegenereerd
- Gegoten aluminium behuizing, stevig en duurzaam, uitstekende warmteafvoer effect

Toepassing • Kleine zelfstandige food / non-food winkels • Discountwinkels, hyper-/supermarkets, doe-het-zelfzaken • High-end fashion winkels, boetieks • Warenhuizen, modezaken • Kantoren: entrees en ontvangstruimten • Beveiliging gebieden

VEILIGHEID LED VERLICHTING

Geen UV of straling van IRL

LED-lampen stoten geen Ultraviolet (UV) of Infrarood (IR) straling, zoals de conventionele lichtbronnen te doen, die kan schadelijk zijn voor de huid te zijn in geval van nabijheid of langdurige blootstelling. Gloei-en halogeenlampen stoten ongeveer 90% van de opgewekte energie als warmte in de vorm van infrarode straling.

Geen KWIK en Kwikdampen

LED-lampen bevatten geen kwik (een neurotoxine dat schadelijk is voor mens en milieu) als de tl-verlichting doen.

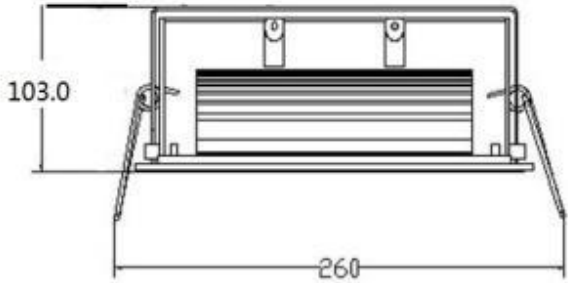
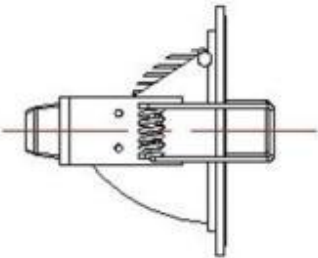
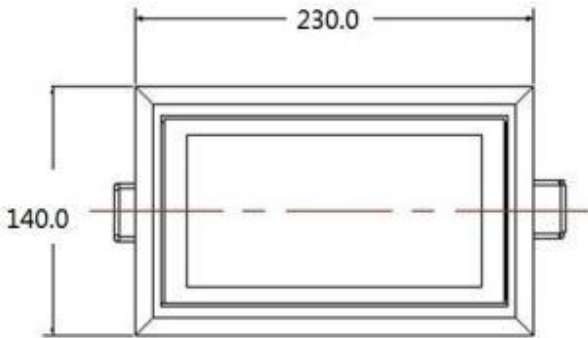
Robuust

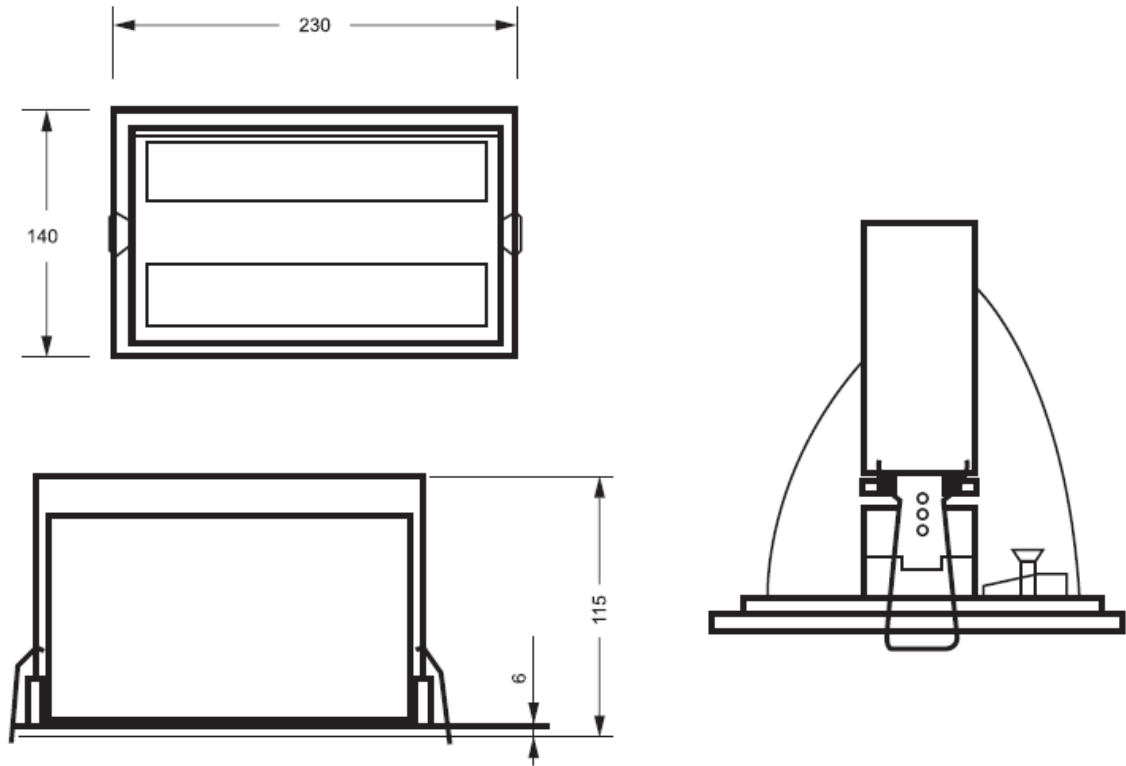
In tegenstelling tot de gloeilamp, TL of halogeen lampen, die zijn gemaakt van fragiele glazen, wordt deze LED-licht ondergebracht met stijve polycarbonaat kunststoffen, aluminium de degelijkheid.

Instant aan, Geen trillen of zoemen



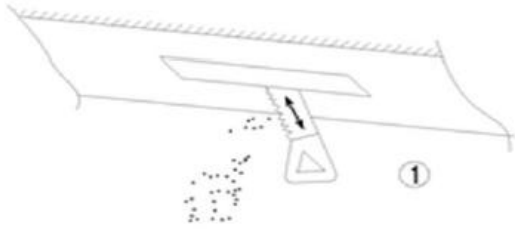
Tekening



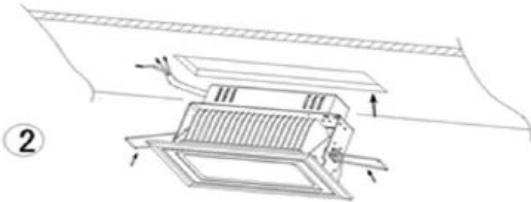


| VOCARE MBM 200 | LED | Voltage | Wattage | Cut-out | Diameter | Height | Kelvin | CRI | Beam | lumens | IP |
|---|---|-----------------------|---------|----------------------|----------------------|--------|------------------|-----|---------------|----------|-------------|
|  |  | AC100-240V 50/60Hz | 23W | L: 223mm W: 123mm | L: 230mm W: 140mm | 103mm | WARM WHITE 3000K | >80 | Diffuser 120° | 1492.4lm | Indoor IP20 |
| | | | | | | | WHITE WH 4000K | | | 1590.4lm | |
| | | | | | | | DAY-LIGHT 5500K | | | 1626.1lm | |
|  |  | AC100-240V 50/60Hz | 35W | L: 223mm W: 123mm | L: 230mm W: 140mm | 103mm | WARM WHITE 3000K | >80 | Diffuser 120° | 2506.0lm | Indoor IP20 |
| | | | | | | | WHITE WH 4000K | | | 2653.0lm | |
| | | | | | | | DAY-LIGHT 5500K | | | 2726.5lm | |

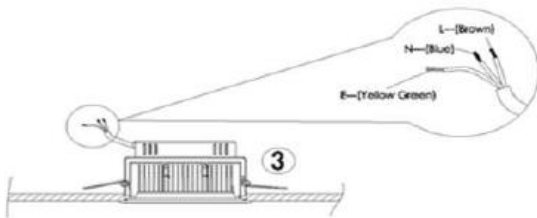
Installation diagrams



Cut the ceiling in a hole size of L: 223-225mm X W: 123-125mm

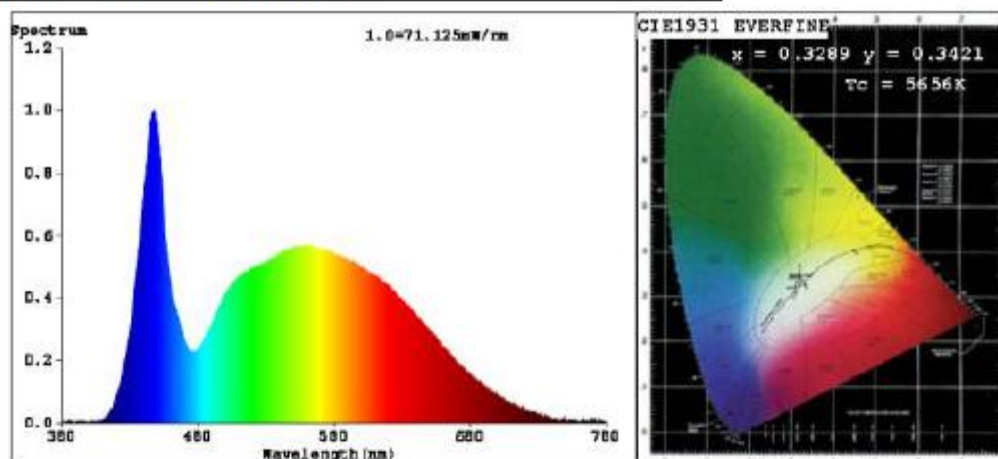


Push the clips in the two ends and insert it into the ceiling from the hole



Connect the cable to the electric power correctly
(Connect the 3 pins Australian plug into the electric power)

Downlight / MBN200 Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3289$ $y=0.3421/u'=0.2041$ $v'=0.4776$

$T_c=5656K$ Dominant WL:Ld =521.1nm Purity=1.8%

Red Ratio:R=16.0% Peak WL:Lp=448.2nm HWL:Lhd=23.2nm

Render Index:Ra=84.1

R1 =83 R2 =86 R3 =88 R4 =85 R5 =85 R6 =82 R7 =88

R8 =76 R9 =26 R10=68 R11=86 R12=67 R13=83 R14=93 R15=80

Photo Parameters:

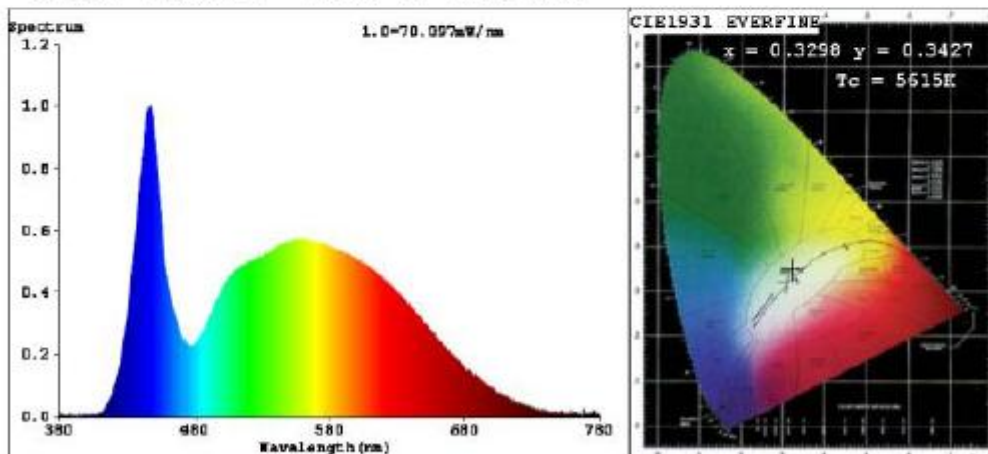
Flux = 2571 lm Eff. : 79.60 lm/W $P_e = 8.377$ W

Electrical parameters:

V = 235.8 V I = 0.1480 A P = 32.30 W $PF = 0.9210$

LEVEL:OUT WHITE:ANSI_5700K

Status: Integral T = 196 ms $I_p = 51430$ (78%)



Color Parameters:

Chromaticity Coordinate: $x=0.3298$ $y=0.3427/u'=0.2045$ $v'=0.4780$

$T_c=5615K$ Dominant WL:Ld =530.3nm Purity=2.0%

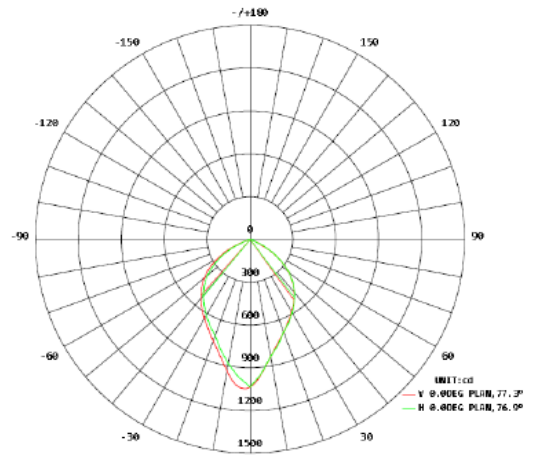
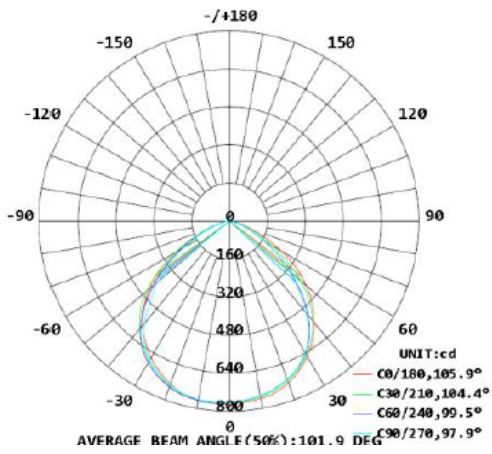
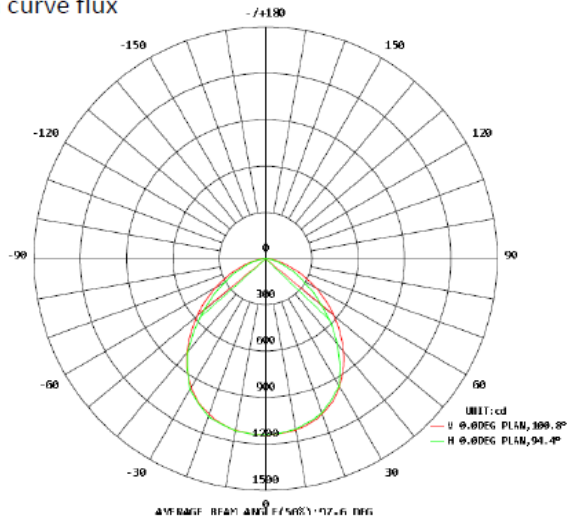
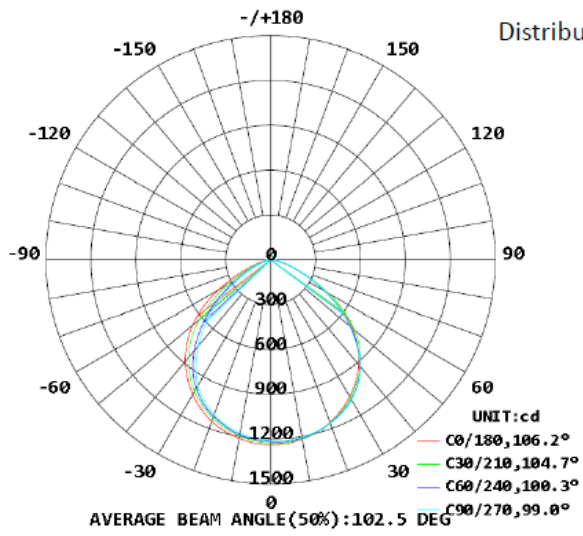
Red Ratio:R=16.1% Peak WL:Lp=447.7nm HWL:Lhd=23.2nm

Render Index:Ra=84.1

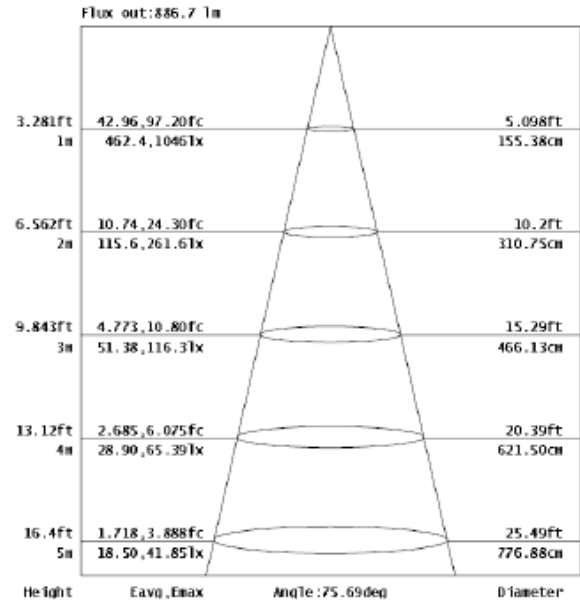
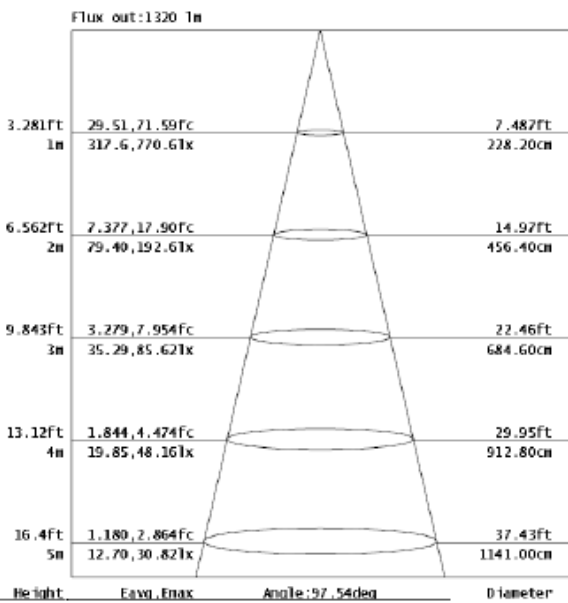
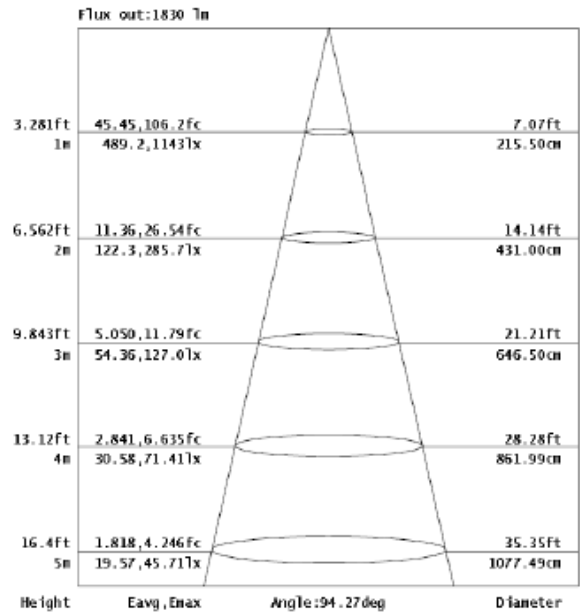
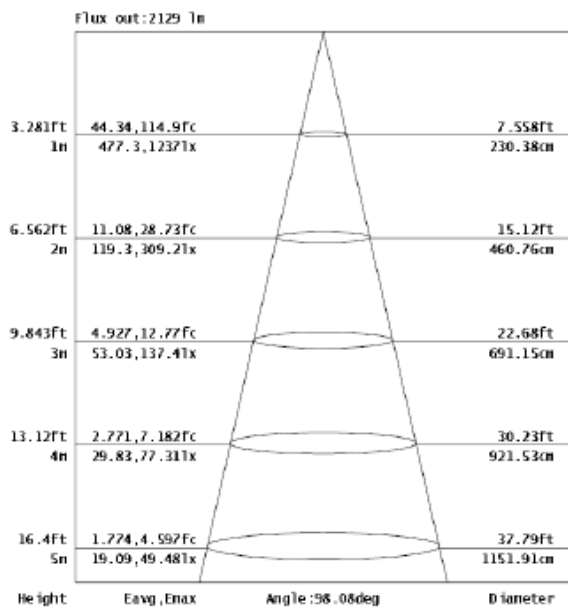
R1 =83 R2 =86 R3 =88 R4 =85 R5 =85 R6 =82 R7 =88

R8 =76 R9 =27 R10=68 R11=86 R12=68 R13=83 R14=93 R15=80

Distribution curve flux

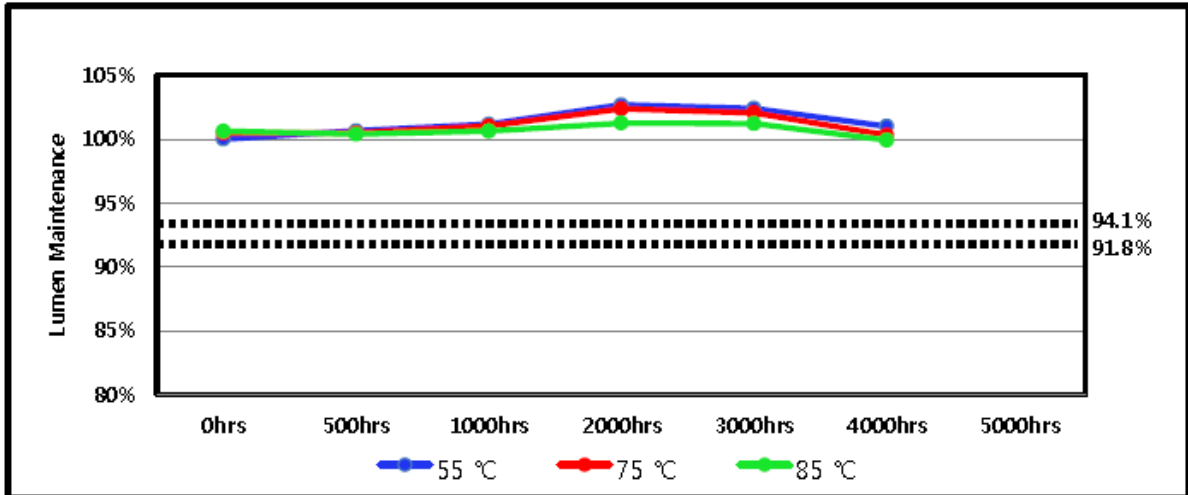


Average Illuminance Figure



Lumen Maintenance

| Ts | Average Lumen Maintenance(%) | | | | | |
|------|------------------------------|--------|----------|----------|----------|----------|
| | 0hrs | 500hrs | 1,000hrs | 2,000hrs | 3,000hrs | 4,000hrs |
| 55°C | 100.0% | 100.6% | 101.2% | 102.7% | 102.4% | 101.0% |
| 75°C | 100.5% | 100.5% | 101.0% | 102.4% | 102.0% | 100.3% |
| 85°C | 100.6% | 100.4% | 100.6% | 101.2% | 101.2% | 99.9% |



Chromaticity shift

average($\Delta u'v'$)

| Ts | Chromaticity shift ($\Delta u'v'$) | | | | | |
|------|--------------------------------------|--------|----------|----------|----------|----------|
| | 0hrs | 500hrs | 1,000hrs | 2,000hrs | 3,000hrs | 4,000hrs |
| 55°C | 0.0000 | 0.0002 | 0.0004 | 0.0009 | 0.0015 | 0.0017 |
| 75°C | 0.0000 | 0.0002 | 0.0019 | 0.0020 | 0.0023 | 0.0025 |
| 85°C | 0.0000 | 0.0001 | 0.0004 | 0.0008 | 0.0014 | 0.0017 |

