

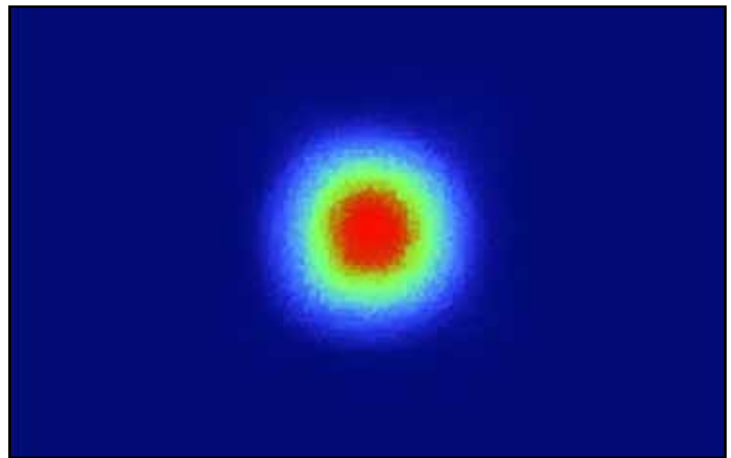
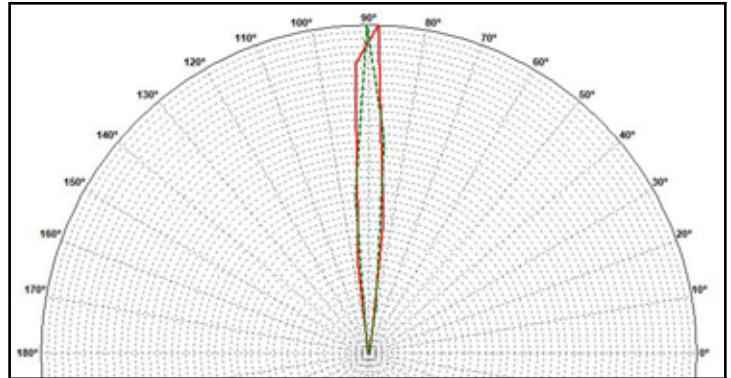
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NOTE:

The lenses work for the UV-A range, from 315 to 400 nm

KESQ1169NAUV - Range UV-A : 315-400nm



Product images are for illustrative purposes only

- Material = PMMA Clear for UV range
- Full angle C0-C180 at 50% from maximum: ~ 12°
- Full angle C0-C180 at 10% from maximum: ~ 34°
- The light spots here represented refer to tests carried out with 3.5X3.5mm LEDs, and ~990mW@LED

Technical Drawing Details:

- Top View: Diameter $\varnothing 21.7 (0.85)$, Height $4.2 (0.165)$.
- Side View (D-D): Features include a top flange with a diameter of $4.2 (0.165)$ and a bottom flange with a diameter of $4.2 (0.165)$. Internal features are dimensioned at $0 (0)$, $0.59 (0.023)$, $1.55 (0.061)$, $9.4 (0.37)$, $11.4 (0.449)$, and $11.5 (0.453)$.
- Bottom View: Diameter $\varnothing 21.7 (0.85)$.

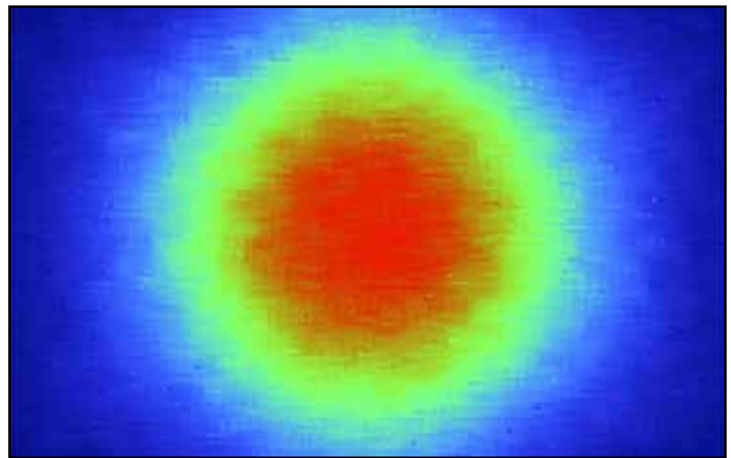
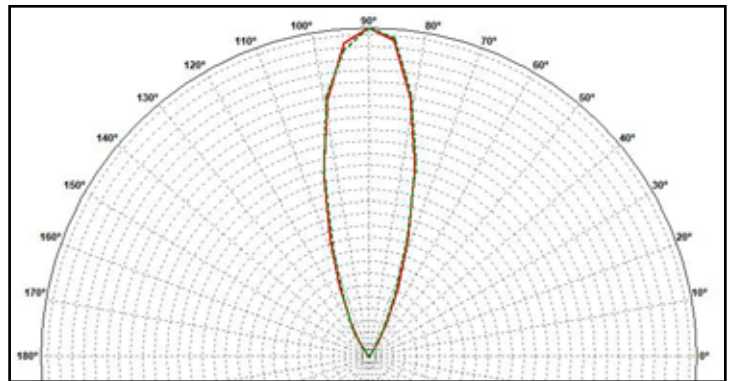
Labels: KE1169, Self adhesive, PL197NAUV

Note:

- Dimensions in inches into brackets
- For missing dimensions see 3D files

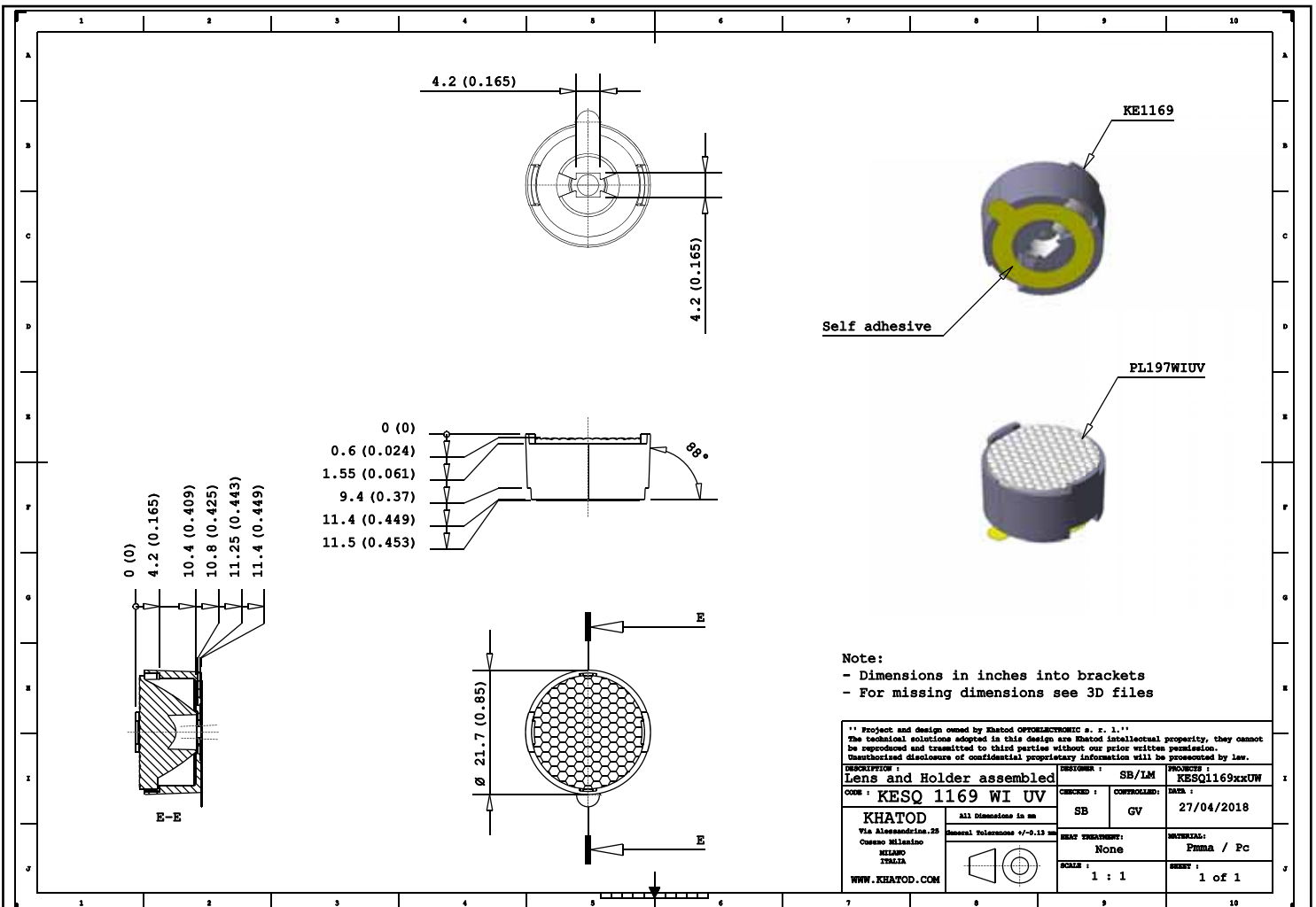
| | | | |
|--|--|------------------------------|-------------------------|
| ** Project and Design owned by Khatod OPTOELECTRONIC s. r. l. ** | | | |
| The technical solutions adopted in this design are Khatod intellectual property, they cannot be reproduced and transmitted to third parties without our prior written permission. Unauthorized disclosure of confidential proprietary information will be prosecuted by law. | | | |
| DESCRIPTION : Lens and Holder assembled | DESIGNER : SB/LM | PROJECT : KESQ1169xxUW | DATE : 27/04/2018 |
| CODE : KESQ 1169 NA UV | CHECKED : SB | CONTROLLED : GV | |
| KHATOD Via Alessandro, 28 Cusano Milanino MILANO ITALIA WWW.KHATOD.COM | All Dimensions in mm General Tolerances 9/-0.15 | REACT. ENVIRONMENT : None | MATERIAL : PMMA / Pc |
| | | SCALE : 1 : 1 | SHEET : 1 of 1 |

KESQ1169WIUV - Range UV-A : 315-400nm

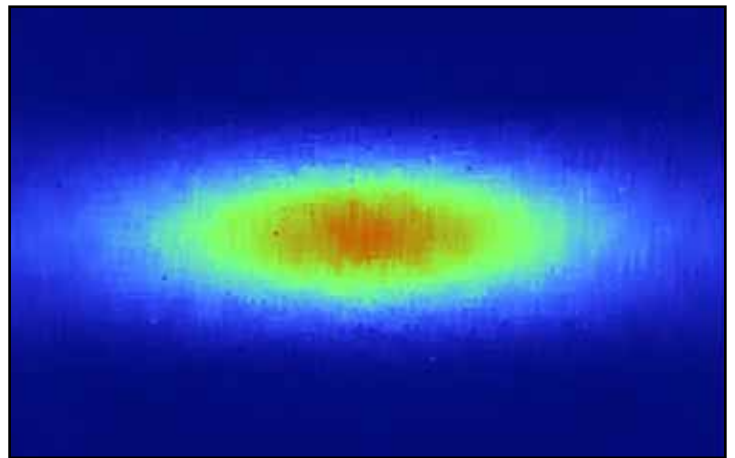
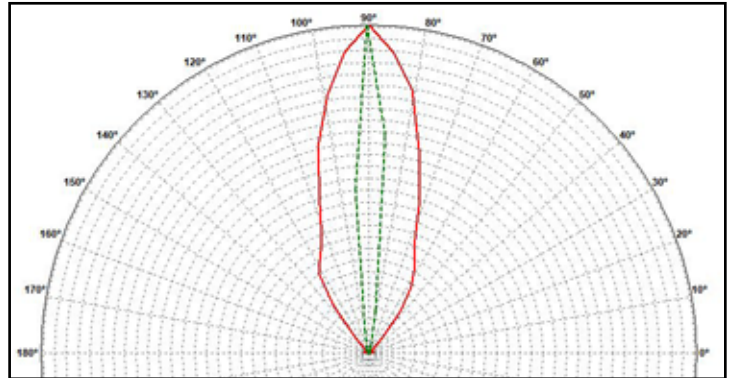


Product images are for illustrative purposes only

- Material = PMMA Clear for UV range
- Full angle C0-C180 at 50% from maximum: ~ 30°
- Full angle C0-C180 at 10% from maximum: ~ 60°
- The light spots here represented refer to tests carried out with 3.5X3.5mm LEDs, and ~990mW@LED



KESQ1169ELUV - Range UV-A : 315-400nm



Product images are for illustrative purposes only

- Material = PMMA Clear for UV range
- Full angle C0-C180 at 50% from maximum: ~ 19x54°
- Full angle C0-C180 at 10% from maximum: ~ 34x80°
- The light spots here represented refer to tests carried out with 3.5X3.5mm LEDs, and ~990mW@LED

4.2 (0.165)

4.2 (0.165)

0 (0)

0.63 (0.025)

1.55 (0.061)

9.4 (0.37)

11.4 (0.449)

11.5 (0.453)

36°

Ø 21.7 (0.85)

F

F

KE1169

Self adhesive

PL197ELUV

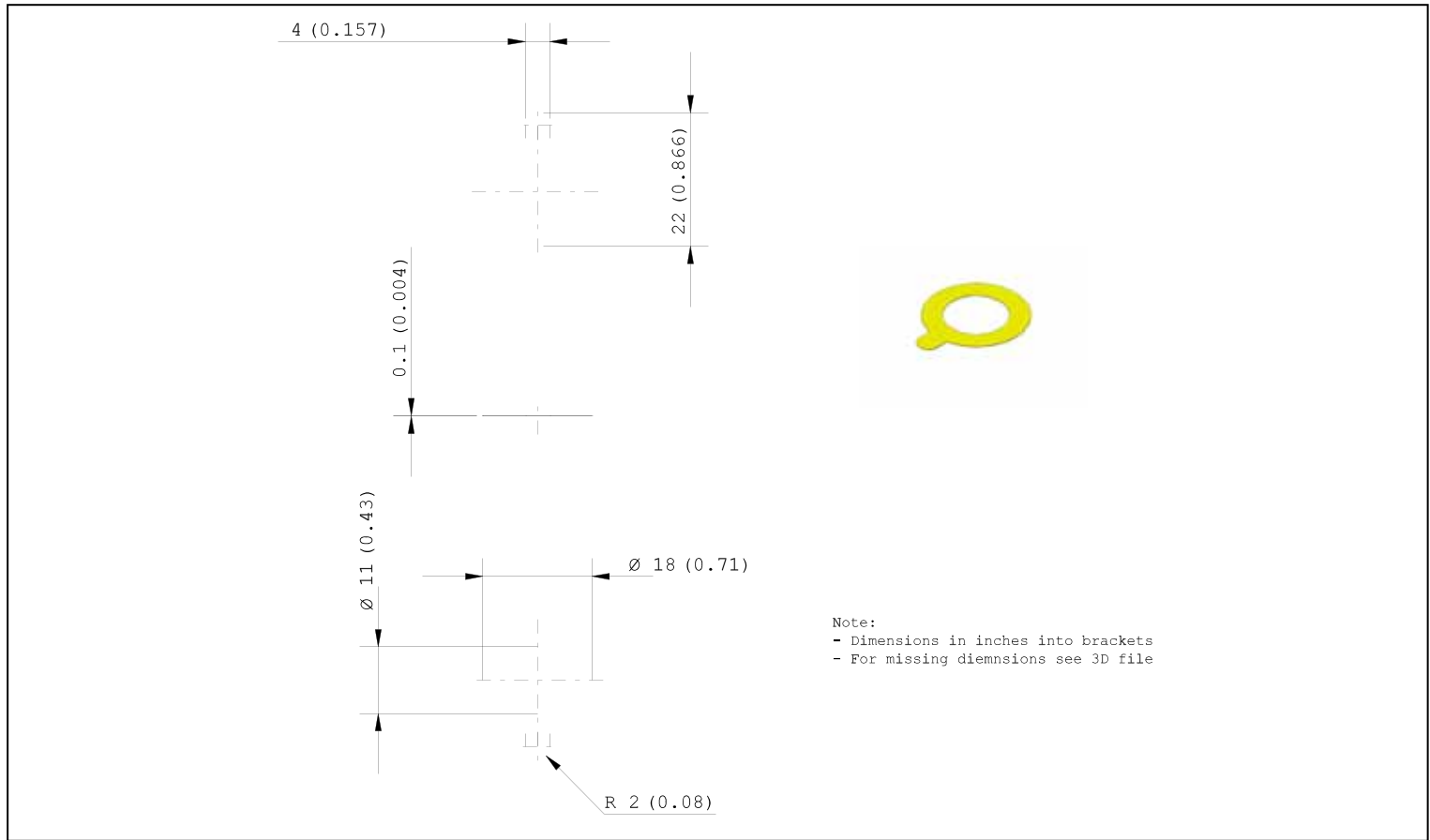
Note:

- Dimensions in inches into brackets
- For missing dimensions see 3D files

Project and Design owned by Khatod OPTOELECTRONIC s. r. l. The technical solutions adopted in this design are Khatod intellectual property, they cannot be reproduced and transmitted to third parties without our prior written permission. Unauthorized disclosure of confidential proprietary information will be prosecuted by law.

| | | |
|--|--|---------------------------|
| DESCRIPTION : Lens and Holder assembled | DRAWN : SB/LM | PROJECT : KESQ1169xxUW |
| CODE : KESQ 1169 EL UV | CHECKED : SB | DATE : 27/04/2018 |
| KHATOD Via Alessandro, 28 Cesano Maderno MILANO ITALIA WWW.KHATOD.COM | All Dimensions in mm General Tolerances 9/-0.15 | REVISIONS : None |
| | SCALE : 1 : 1 | MATERIAL : PMMA / Pc |
| | | SHEET : 1 of 1 |

Fixing Adhesive Tape Technical Drawing



3M High Strength Double Coated Tape with Adhesive 300LSE

9474LE • 9495LE

Technical Data November, 2008

Product Description 3M™ Double Coated Tapes with 3M™ Adhesive 300LSE provides high bond strength to most surfaces, including many low surface energy plastics such as polypropylene and powder coated paints. The acrylic adhesive also provides excellent adhesion to surfaces contaminated lightly with oil typically used with machine parts.

| Construction | Product Number | Total Tape Thickness (w/o liner) | Faceseide ¹ Adhesive Type/ Thickness | Carrier Type/ Thickness | Backside ² Adhesive Type/ Thickness | Liner Color, Type, Print | Liner Caliper ³ |
|--------------|-------------------------------|----------------------------------|---|-----------------------------------|--|--|-------------------------------------|
| | 3M™ Double Coated Tape 9474LE | 0.0067" (0.17mm) | 0.0028" (0.071mm) | Clear Polyester 0.0005" (0.013mm) | 0.0034" (0.086mm) | Faceseide Liner/ Tan, 58# Polycoated Kraft, no print | 0.0042" (0.11mm) / 0.0042" (0.11mm) |
| | 3M™ Double Coated Tape 9495LE | 0.0067" (0.17mm) | 0.0028" (0.071mm) | Clear Polyester 0.0005" (0.013mm) | 0.0034" (0.086mm) | Tan, 58#, Polycoated Kraft, "3M 300LSE" | 0.0042" (0.11mm) / 0.0042" (0.11mm) |

Note 1: Faceseide (FS) adhesive is on the interior of the roll, exposed when unwound.
Note 2: Backside (BS) adhesive is on the exterior of the roll, exposed when liner is removed.
Note 3: The caliper listed is based on a calculation from manufacturing controlled adhesive coat weights using a density of 1.012 g/cc.

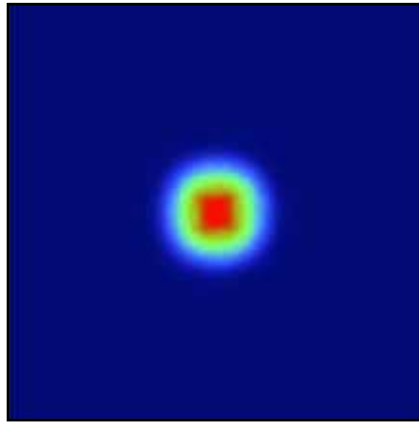
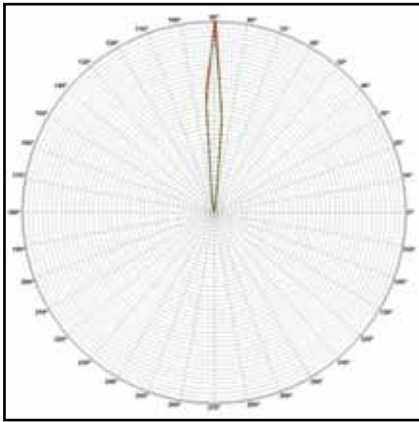
3M™ High Strength Double Coated Tape with Adhesive 300LSE

9474LE • 9495LE

Typical Physical Properties and Performance Characteristics Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

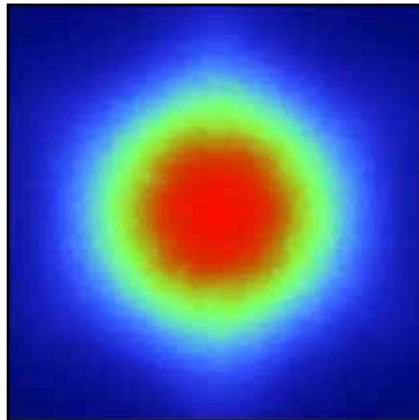
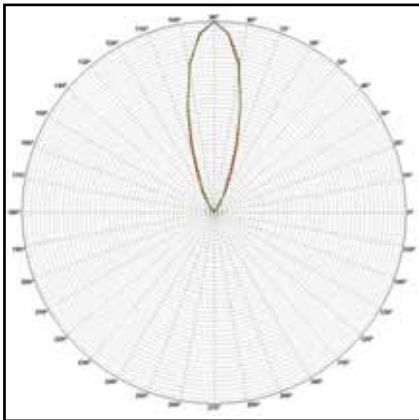
| Product Number | 3M™ Double Coated Tapes 9474LE, 9495LE |
|--|--|
| Adhesion to stainless steel ASTM D3330 - 180 degree 2 mil polyester as backing | Oz/in (N/100 mm) Faceseide / Backside - 72 hour RT 100 (113) / 105 (119) |
| Adhesion to stainless steel ASTM D3330 - 90 degree 2 mil al foil | Oz/in (N/100 mm) Faceseide/Backside - 15 minute RT 70 (79) / 80 (90) - 72 hour RT 85 (96) / 100 (113) - 72 hour 158°F (70°C) 106 (119) / 130 (147) |
| Adhesion to other surfaces ASTM D3330 - 90 degree, 2 mil al foil, 72 hour RT | Oz/in (N/100 mm) Faceseide / Backside ABS 100 (124) / 90 (102) Polypropylene 90 (102) / 80 (90) Polycarbonate 150 (169) / 140 (158) Glass 90 (102) / 100 (113) |
| Shear Strength - ASTM D3654 Modified - (.5 inch ² sample size) | 1000 grams at 72°F (22°C) >10,000 minutes 500 grams at 158°F (70°C) >10,000 minutes |
| Relative High Temperature Operating Ranges: | Long Term (days, weeks) 200°F (93°C) Short Term (minutes, hours) 300°F (149°C) |
| Relative Solvent Resistance: | Very Good |

1. KESQ1169NAUV - LUXEON Z UV



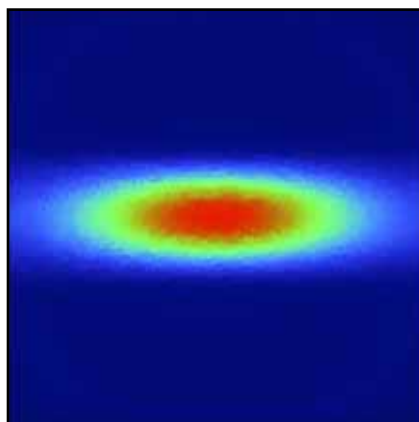
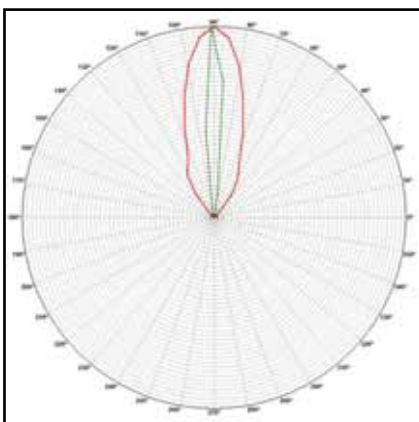
- Full angle C0-C180 at 50% from max: $\sim 9.7^\circ$
- Full angle C0-C180 at 10% from max: $\sim 17.7^\circ$
- The light spots here represented refer to tests carried out with $\sim 790\text{mW@LED}$

1. KESQ1169WIUV - LUXEON Z UV



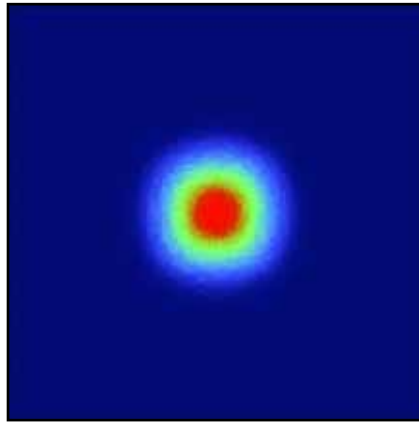
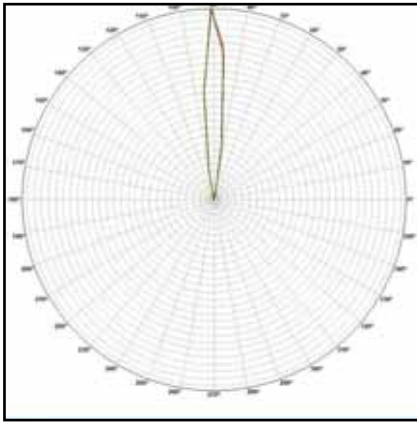
- Full angle C0-C180 at 50% from max: $\sim 30.5^\circ$
- Full angle C0-C180 at 10% from max: $\sim 58.4^\circ$
- The light spots here represented refer to tests carried out with $\sim 790\text{mW@LED}$

1. KESQ1169ELUV - LUXEON Z UV



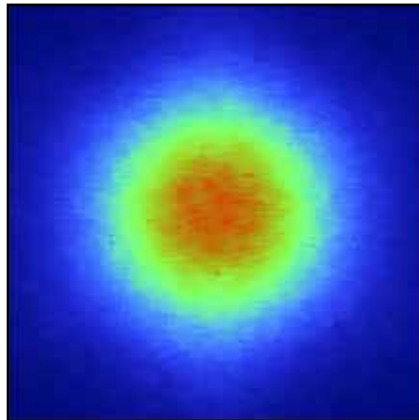
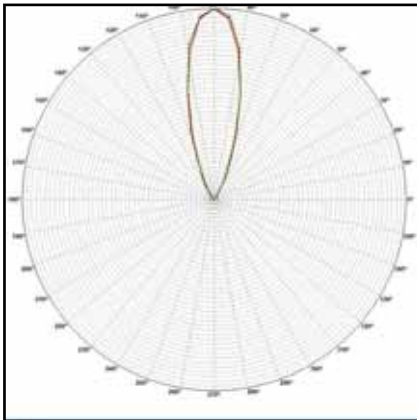
- Full angle C0-C180 at 50% from max: $\sim 10^\circ \times 35^\circ$
- Full angle C0-C180 at 10% from max: $\sim 18^\circ \times 78^\circ$
- The light spots here represented refer to tests carried out with $\sim 790\text{mW@LED}$

1. KESQ1169NAUV - LUXEON UV U



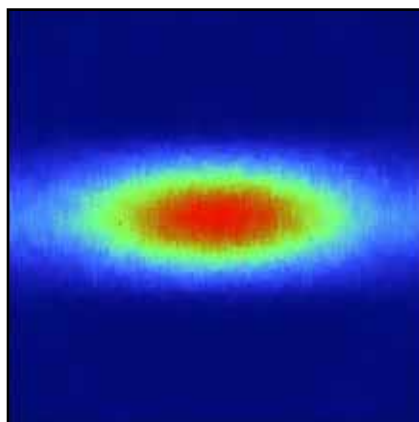
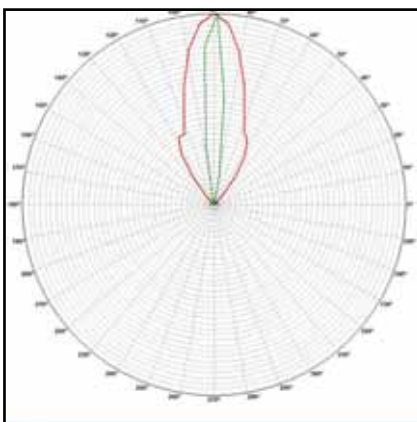
- Full angle C0-C180 at 50% from max: $\sim 11.2^\circ$
- Full angle C0-C180 at 10% from max: $\sim 21.1^\circ$
- The light spots here represented refer to tests carried out with $\sim 808\text{mW@LED}$

1. KESQ1169WIUV - LUXEON UV U



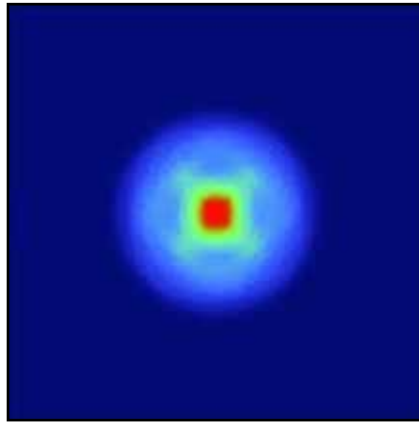
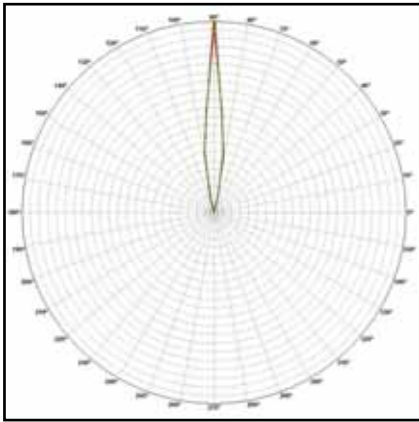
- Full angle C0-C180 at 50% from max: $\sim 30.1^\circ$
- Full angle C0-C180 at 10% from max: $\sim 57.6^\circ$
- The light spots here represented refer to tests carried out with $\sim 808\text{mW@LED}$

1. KESQ1169ELUV - LUXEON UV U



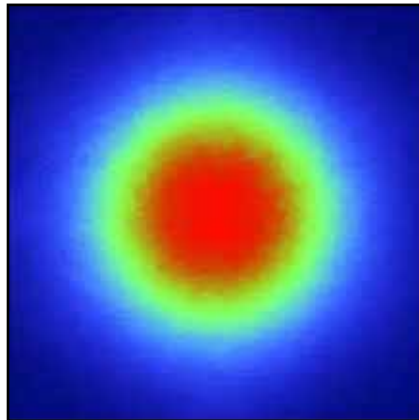
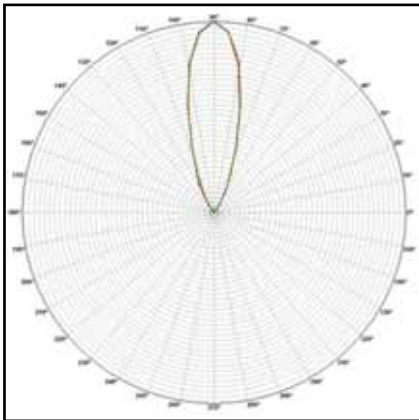
- Full angle C0-C180 at 50% from max: $\sim 11^\circ \times 35^\circ$
- Full angle C0-C180 at 10% from max: $\sim 21^\circ \times 79^\circ$
- The light spots here represented refer to tests carried out with $\sim 808\text{mW@LED}$

1. KESQ1169NAUV - LUXEON UV FC Line



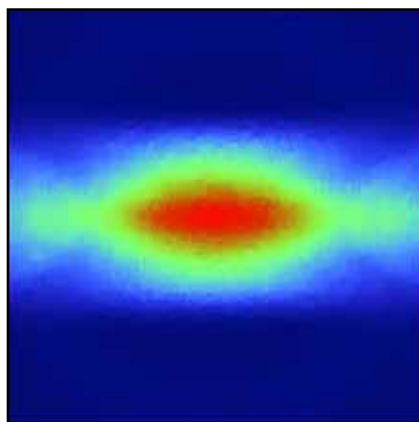
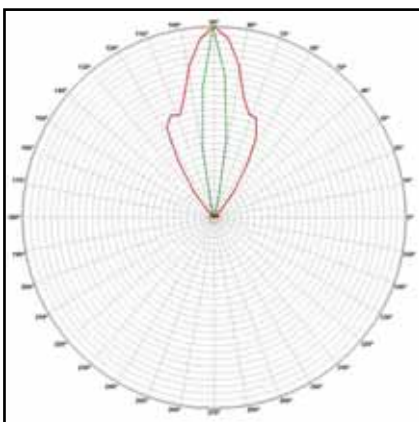
- Full angle C0-C180 at 50% from max: $\sim 11.2^\circ$
- Full angle C0-C180 at 10% from max: $\sim 26.5^\circ$
- The light spots here represented refer to tests carried out with $\sim 900\text{mW@LED}$

1. KESQ1169WIUV - LUXEON UV FC Line



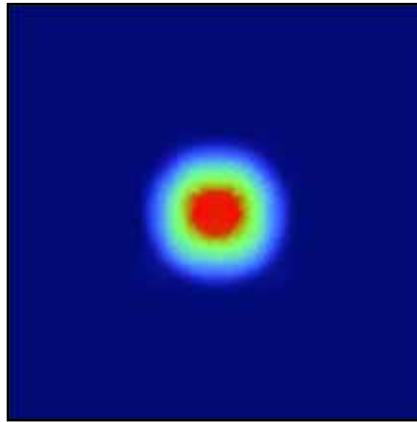
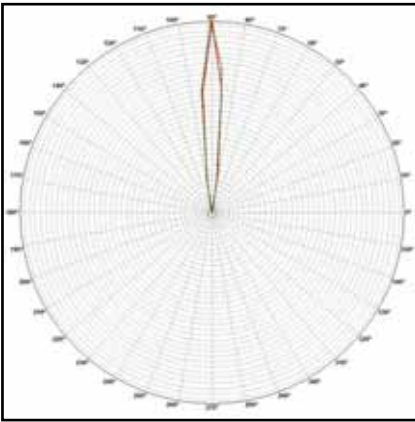
- Full angle C0-C180 at 50% from max: $\sim 29.9^\circ$
- Full angle C0-C180 at 10% from max: $\sim 58.5^\circ$
- The light spots here represented refer to tests carried out with $\sim 900\text{mW@LED}$

1. KESQ1169ELUV - LUXEON UV FC Line



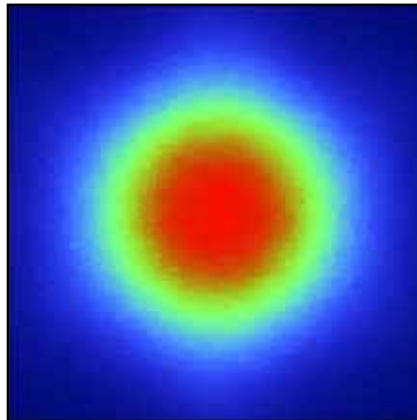
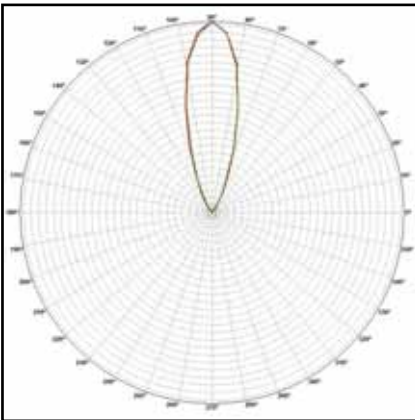
- Full angle C0-C180 at 50% from max: $\sim 15^\circ \times 53^\circ$
- Full angle C0-C180 at 10% from max: $\sim 26^\circ \times 78^\circ$
- The light spots here represented refer to tests carried out with $\sim 900\text{mW@LED}$

1. KESQ1169NAUV - LUMINUS SST-10-UV



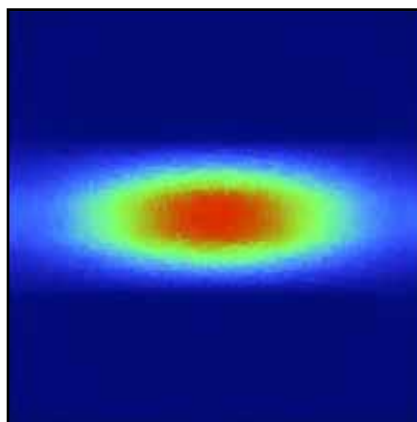
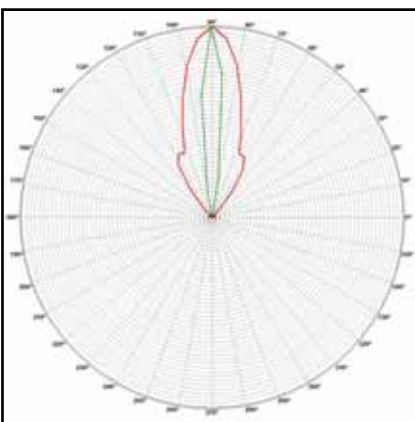
- Full angle C0-C180 at 50% from max: $\sim 11.3^\circ$
- Full angle C0-C180 at 10% from max: $\sim 20.2^\circ$
- The light spots here represented refer to tests carried out with $\sim 900\text{mW@LED}$

1. KESQ1169WIUV - LUMINUS SST-10-UV



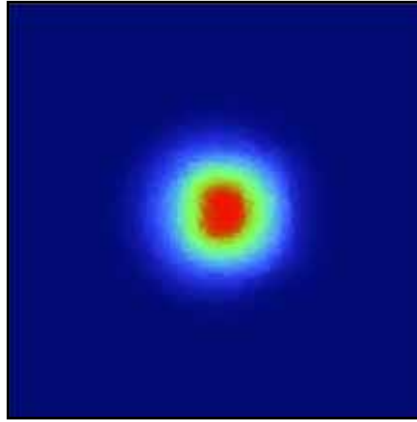
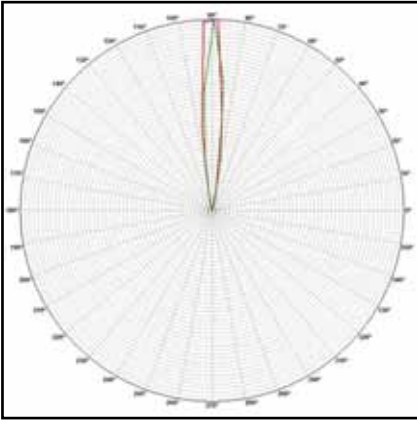
- Full angle C0-C180 at 50% from max: $\sim 29.9^\circ$
- Full angle C0-C180 at 10% from max: $\sim 57.6^\circ$
- The light spots here represented refer to tests carried out with $\sim 900\text{mW@LED}$

1. KESQ1169ELUV - LUMINUS SST-10-UV



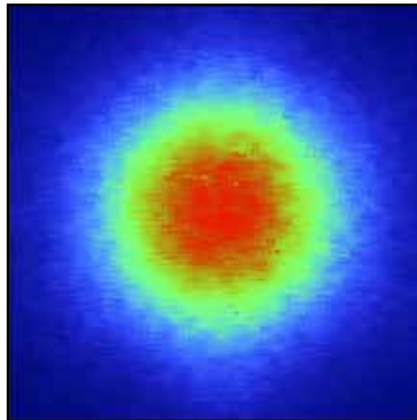
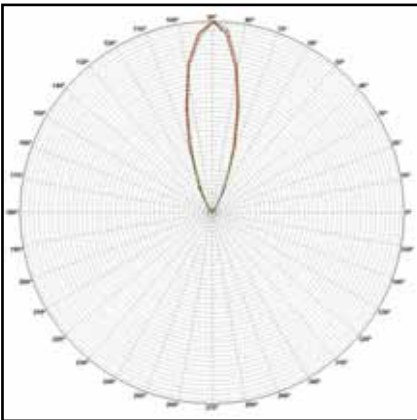
- Full angle C0-C180 at 50% from max: $\sim 11^\circ \times 34^\circ$
- Full angle C0-C180 at 10% from max: $\sim 20^\circ \times 79^\circ$
- The light spots here represented refer to tests carried out with $\sim 900\text{mW@LED}$

1. KESQ1169NAUV - NICHIA® NVSU279A



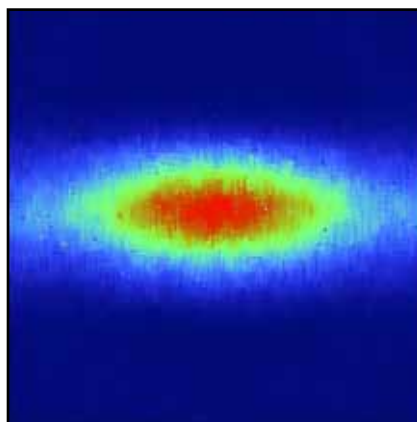
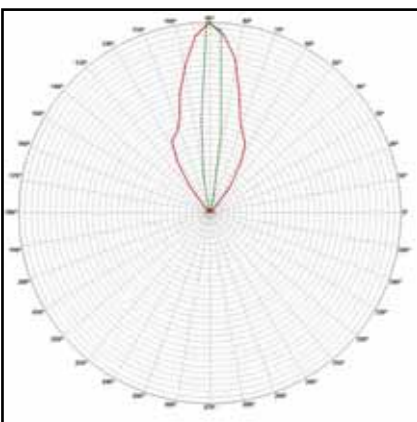
- Full angle C0-C180 at 50% from max: ~ 11.6°
- Full angle C0-C180 at 10% from max: ~ 22.5°
- The light spots here represented refer to tests carried out with ~ 1450mW@LED

1. KESQ1169WIUV - NICHIA® NVSU279A



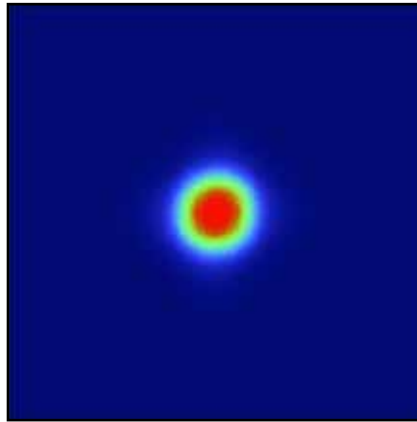
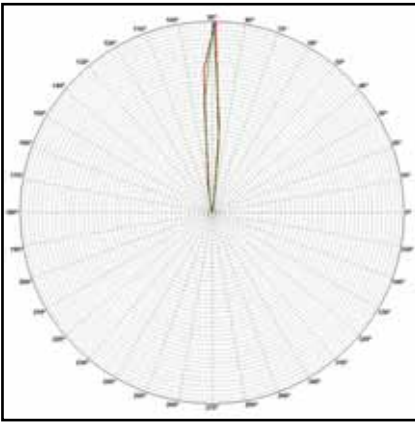
- Full angle C0-C180 at 50% from max: ~ 30°
- Full angle C0-C180 at 10% from max: ~ 57.9°
- The light spots here represented refer to tests carried out with ~ 1450mW@LED

1. KESQ1169ELUV - NICHIA® NVSU279A



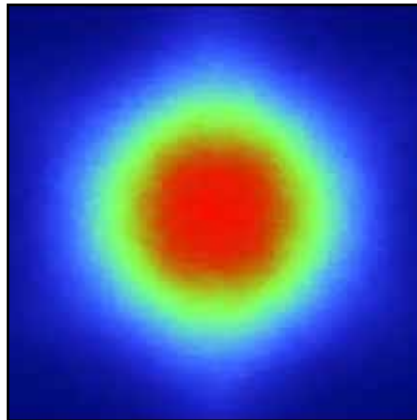
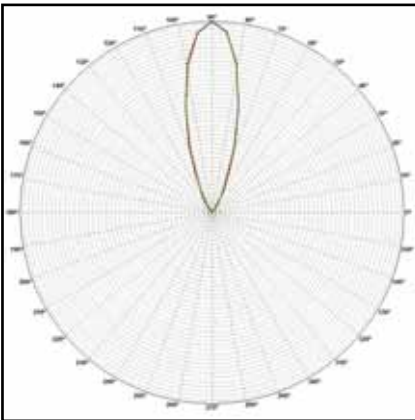
- Full angle C0-C180 at 50% from max: ~ 12°x36°
- Full angle C0-C180 at 10% from max: ~ 23°x79°
- The light spots here represented refer to tests carried out with ~ 1450mW@LED

1. KESQ1169NAUV - NICHIA® NVSU233B



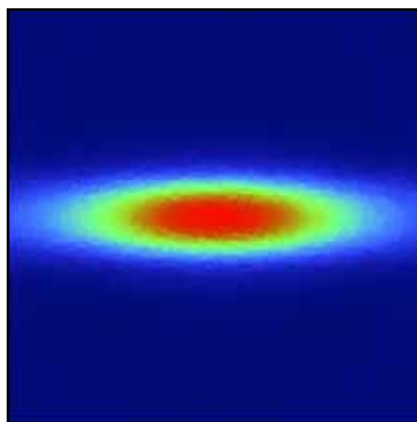
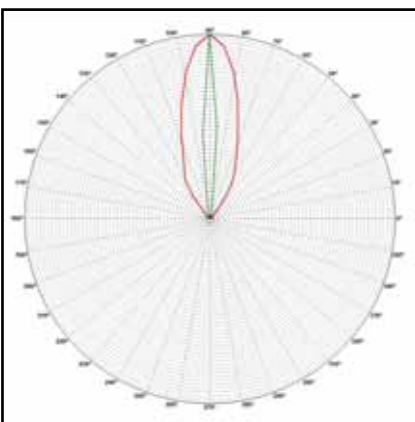
- Full angle C0-C180 at 50% from max: ~ 9.3°
- Full angle C0-C180 at 10% from max: ~ 17.3°
- The light spots here represented refer to tests carried out with ~ 1460mW@LED

1. KESQ1169WIUV - NICHIA® NVSU233B



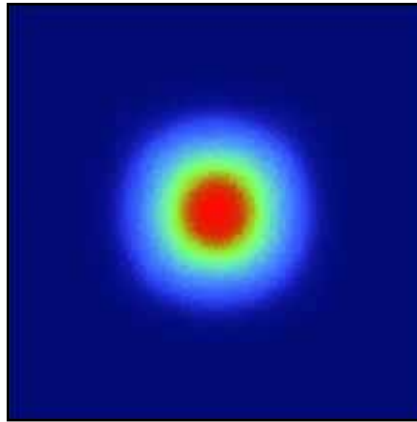
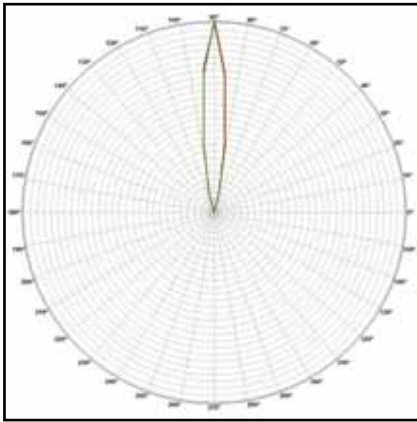
- Full angle C0-C180 at 50% from max: ~ 30.3°
- Full angle C0-C180 at 10% from max: ~ 58.4°
- The light spots here represented refer to tests carried out with ~ 1460mW@LED

1. KESQ1169ELUV - NICHIA® NVSU233B



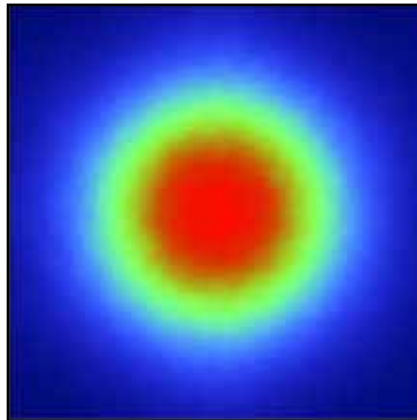
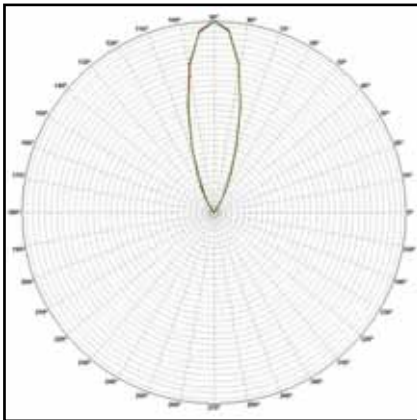
- Full angle C0-C180 at 50% from max: ~ 9°x36°
- Full angle C0-C180 at 10% from max: ~ 17°x77°
- The light spots here represented refer to tests carried out with ~ 1460mW@LED

1. KESQ1169NAUV - NICHIA® NVSU119C



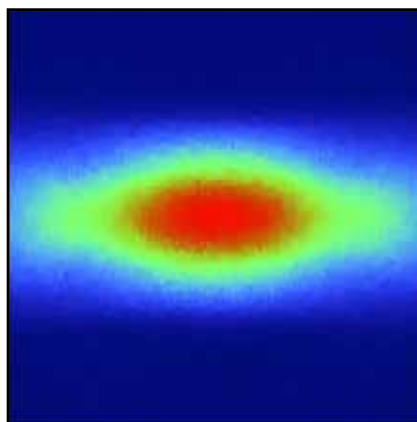
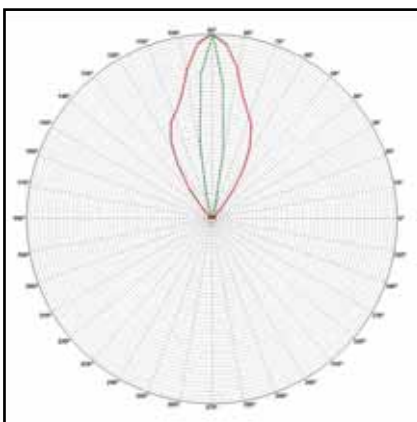
- Full angle C0-C180 at 50% from max: ~ 13.3°
- Full angle C0-C180 at 10% from max: ~ 27.6°
- The light spots here represented refer to tests carried out with ~ 1230mW@LED

1. KESQ1169WIUV - NICHIA® NVSU119C



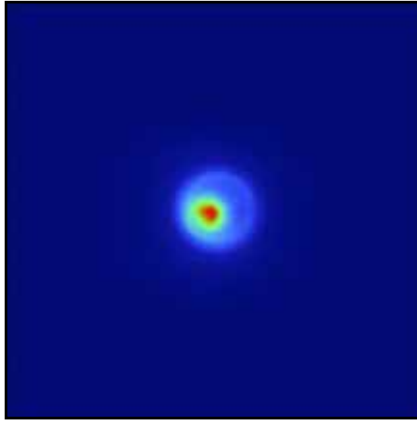
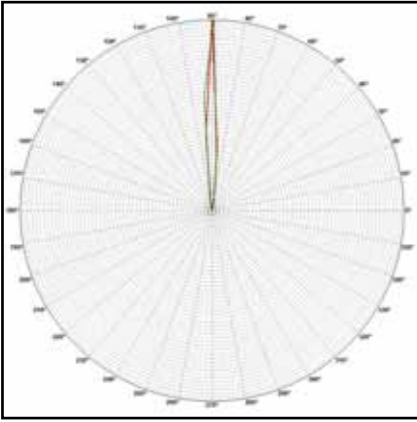
- Full angle C0-C180 at 50% from max: ~ 29.8°
- Full angle C0-C180 at 10% from max: ~ 57.9°
- The light spots here represented refer to tests carried out with ~ 1230mW@LED

1. KESQ1169ELUV - NICHIA® NVSU119C



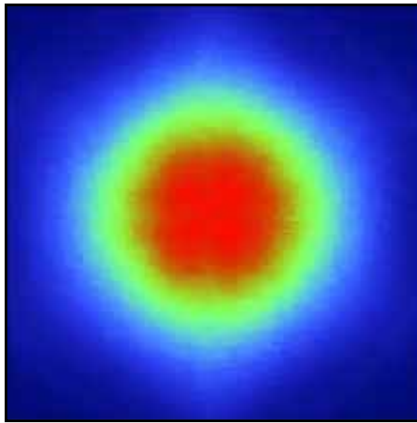
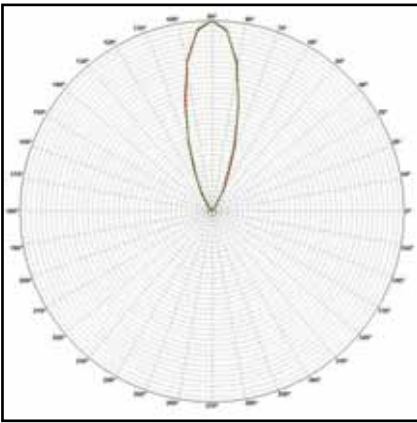
- Full angle C0-C180 at 50% from max: ~ 15°x50°
- Full angle C0-C180 at 10% from max: ~ 28°x80°
- The light spots here represented refer to tests carried out with ~ 1230mW@LED

1. KESQ1169NAUV - NICHIA® NSSU123



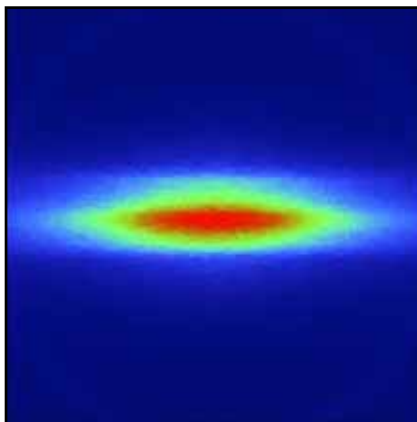
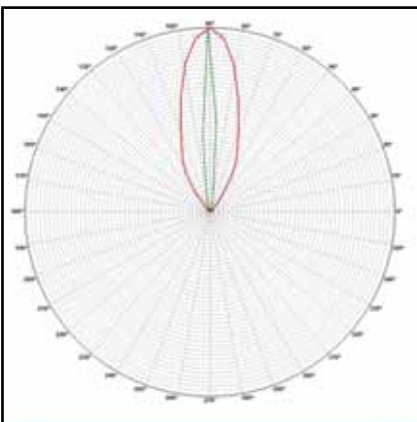
- Full angle C0-C180 at 50% from max: ~ 8.0°
- Full angle C0-C180 at 10% from max: ~ 16.4°
- The light spots here represented refer to tests carried out with ~ 27mW@LED

1. KESQ1169WIUV - NICHIA® NSSU123



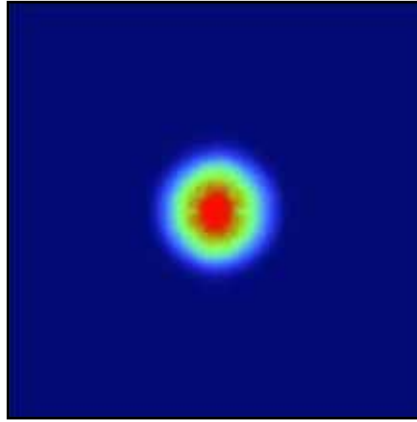
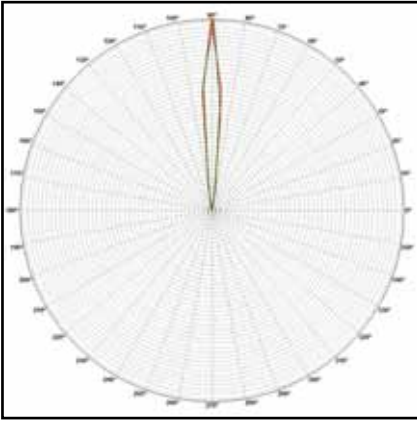
- Full angle C0-C180 at 50% from max: ~ 30.7°
- Full angle C0-C180 at 10% from max: ~ 58.9°
- The light spots here represented refer to tests carried out with ~ 27mW@LED

1. KESQ1169ELUV - NICHIA® NSSU123



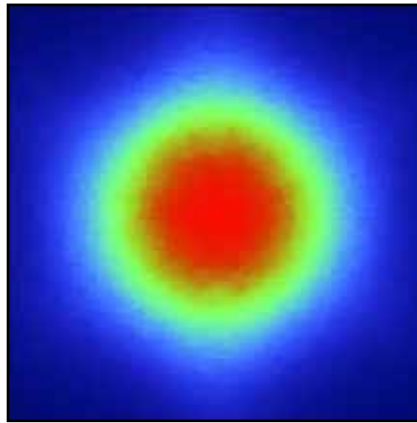
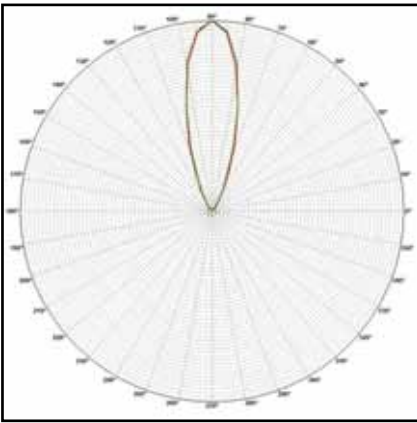
- Full angle C0-C180 at 50% from max: ~ 9°x35°
- Full angle C0-C180 at 10% from max: ~ 20°x75°
- The light spots here represented refer to tests carried out with ~ 27mW@LED

1. KESQ1169NAUV - NICHIA® NCSU276A



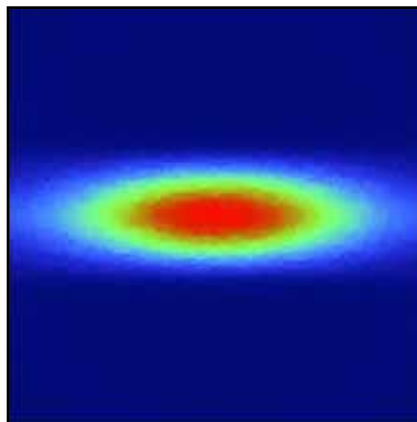
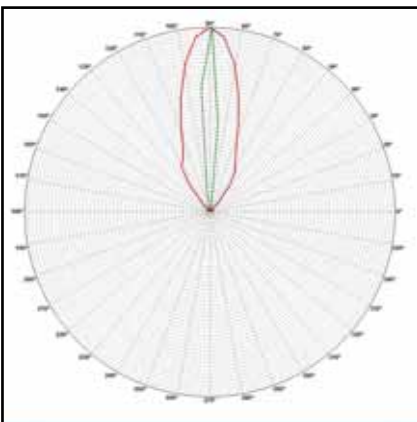
- Full angle C0-C180 at 50% from max: ~ 10.4°
- Full angle C0-C180 at 10% from max: ~ 18.6°
- The light spots here represented refer to tests carried out with ~ 835mW@LED

1. KESQ1169WIUV - NICHIA® NCSU276A



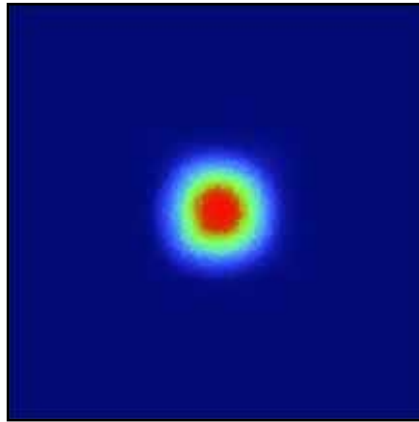
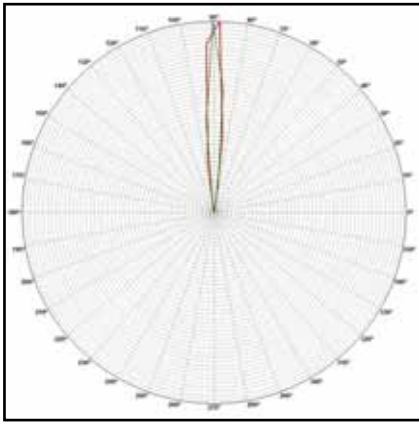
- Full angle C0-C180 at 50% from max: ~ 30.0°
- Full angle C0-C180 at 10% from max: ~ 57.6°
- The light spots here represented refer to tests carried out with ~ 835mW@LED

1. KESQ1169ELUV - NICHIA® NCSU276A



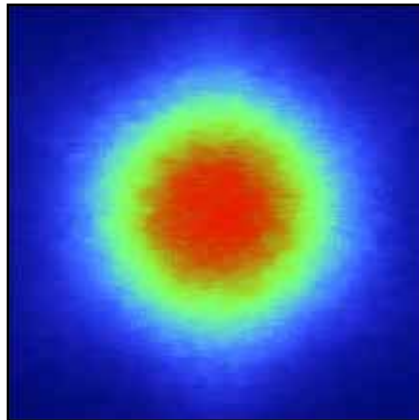
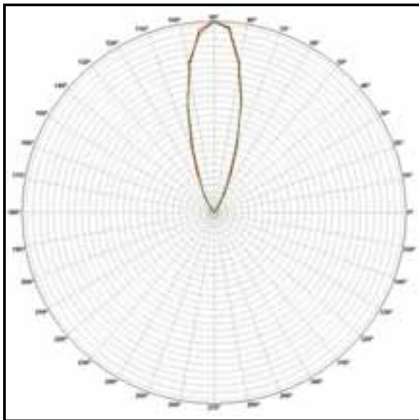
- Full angle C0-C180 at 50% from max: ~ 9°x35°
- Full angle C0-C180 at 10% from max: ~ 18°x79°
- The light spots here represented refer to tests carried out with ~ 835mW@LED

1. KESQ1169NAUV - SEOUL® Z5



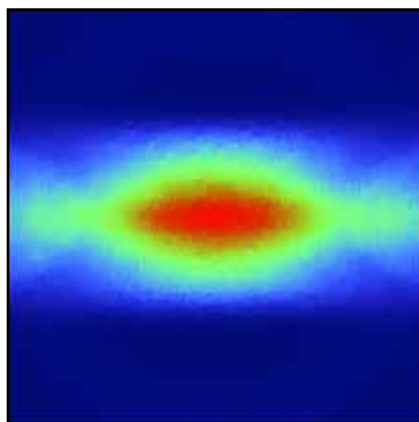
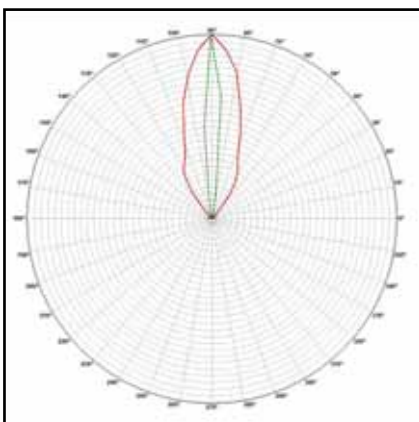
- Full angle C0-C180 at 50% from max: $\sim 9.9^\circ$
- Full angle C0-C180 at 10% from max: $\sim 18.3^\circ$
- The light spots here represented refer to tests carried out with $\sim 900\text{mW@LED}$

1. KESQ1169WIUV - SEOUL® Z5



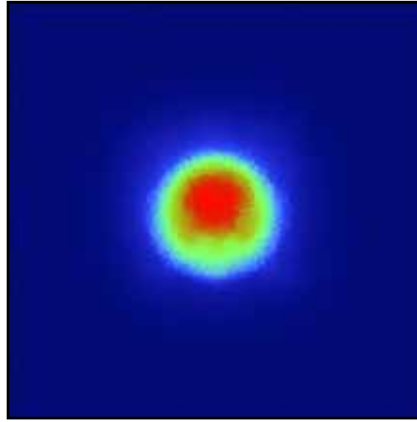
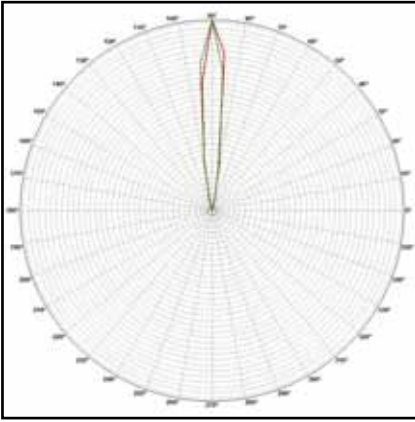
- Full angle C0-C180 at 50% from max: $\sim 30.1^\circ$
- Full angle C0-C180 at 10% from max: $\sim 58.0^\circ$
- The light spots here represented refer to tests carried out with $\sim 900\text{mW@LED}$

1. KESQ1169ELUV - SEOUL® Z5



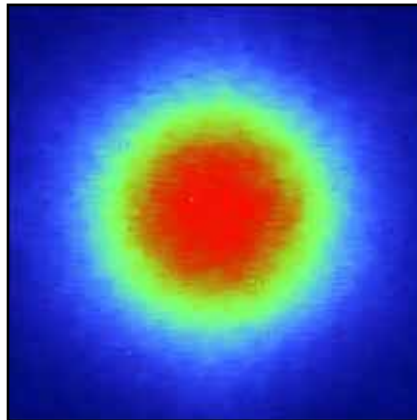
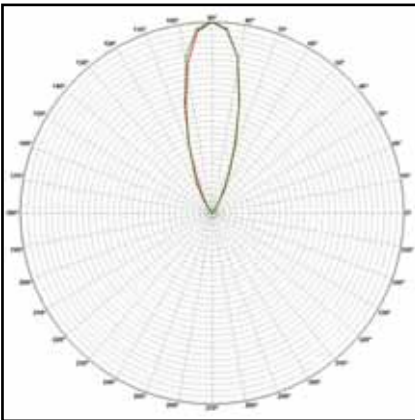
- Full angle C0-C180 at 50% from max: $\sim 10^\circ \times 35^\circ$
- Full angle C0-C180 at 10% from max: $\sim 18^\circ \times 78^\circ$
- The light spots here represented refer to tests carried out with $\sim 900\text{mW@LED}$

1. KESQ1169NAUV - SEOUL® NZ5



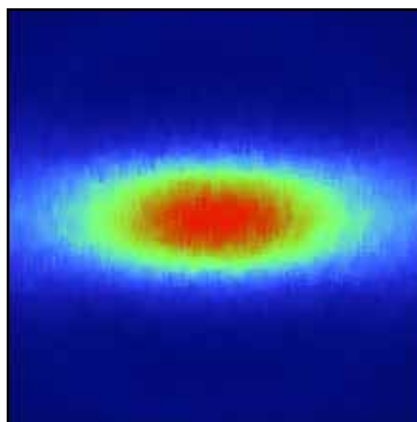
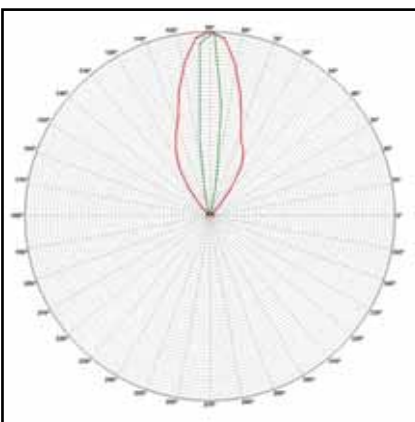
- Full angle C0-C180 at 50% from max: ~ 13.1°
- Full angle C0-C180 at 10% from max: ~ 23.1°
- The light spots here represented refer to tests carried out with ~ 1200mW@LED

1. KESQ1169WIUV - SEOUL® NZ5



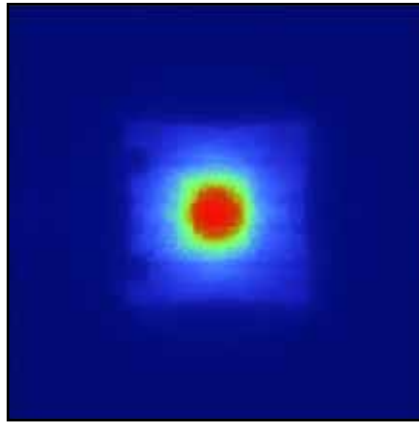
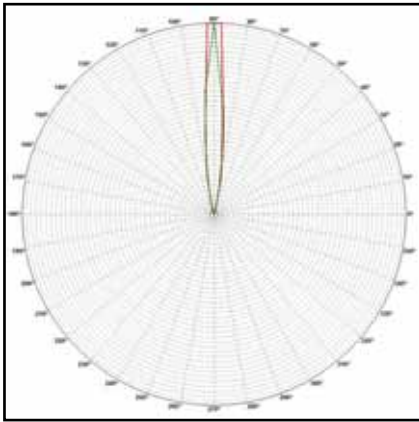
- Full angle C0-C180 at 50% from max: ~ 30.9°
- Full angle C0-C180 at 10% from max: ~ 58.3°
- The light spots here represented refer to tests carried out with ~ 1200mW@LED

1. KESQ1169ELUV - SEOUL® NZ5



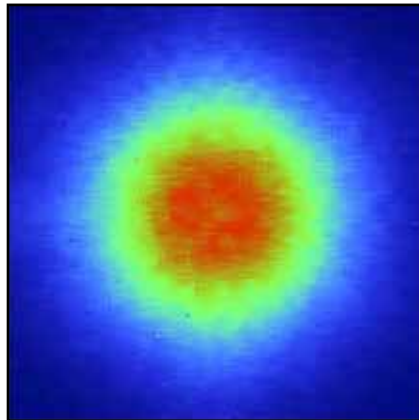
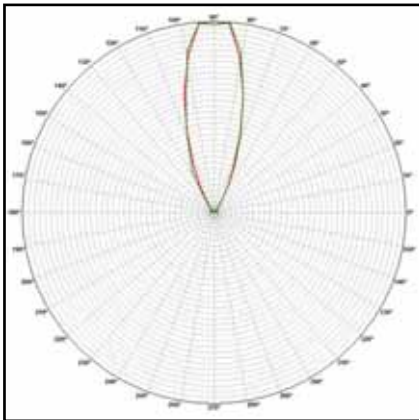
- Full angle C0-C180 at 50% from max: ~ 13°x40°
- Full angle C0-C180 at 10% from max: ~ 25°x80°
- The light spots here represented refer to tests carried out with ~ 1200mW@LED

1. KESQ1169NAUV - SEOUL® CA3535_Dome



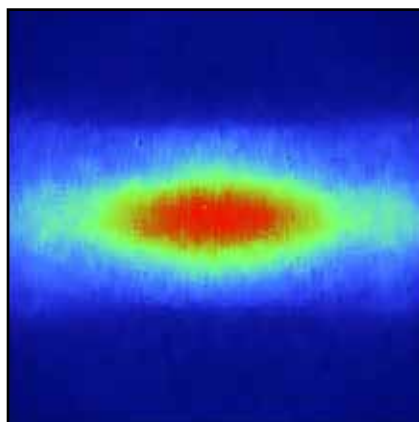
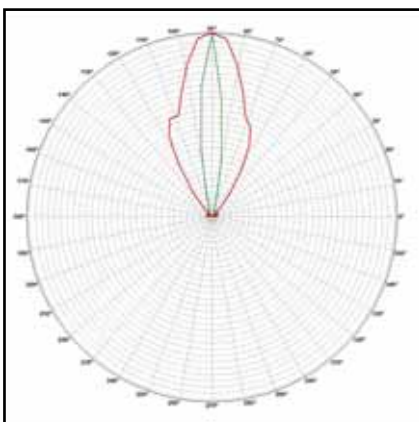
- Full angle C0-C180 at 50% from max: ~ 11.1°
- Full angle C0-C180 at 10% from max: ~ 24.3°
- The light spots here represented refer to tests carried out with ~ 1600mW@LED

1. KESQ1169WIUV - SEOUL® CA3535_Dome



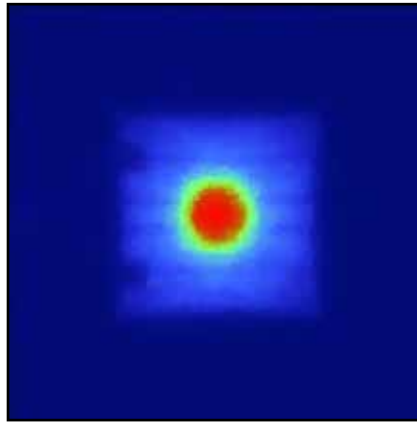
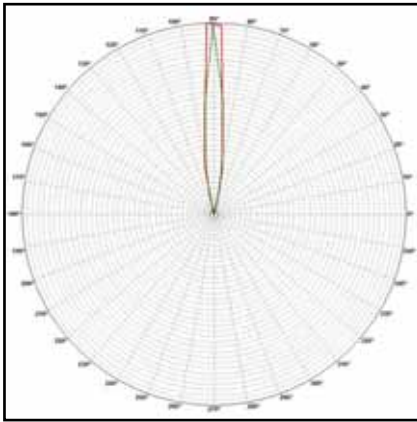
- Full angle C0-C180 at 50% from max: ~ 32.7°
- Full angle C0-C180 at 10% from max: ~ 61.4°
- The light spots here represented refer to tests carried out with ~ 1600mW@LED

1. KESQ1169ELUV - SEOUL® CA3535_Dome



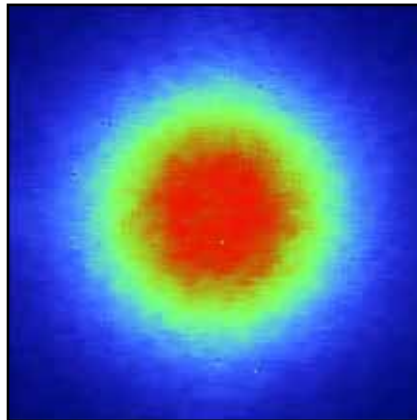
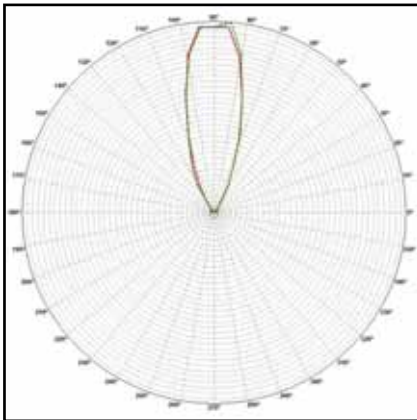
- Full angle C0-C180 at 50% from max: ~ 13°x51°
- Full angle C0-C180 at 10% from max: ~ 28°x79°
- The light spots here represented refer to tests carried out with ~ 1600mW@LED

1. KESQ1169NAUV - SEOUL® CA3535_Flat



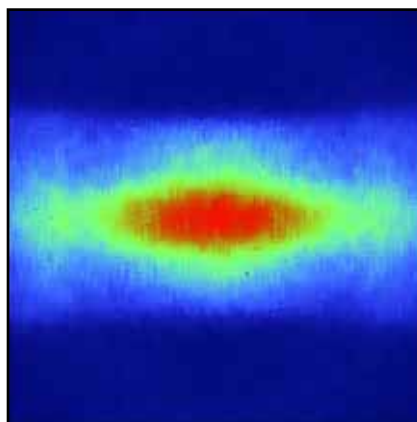
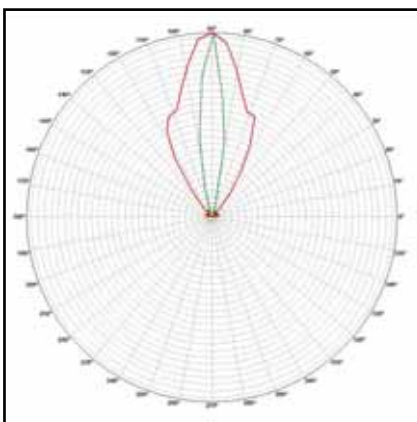
- Full angle C0-C180 at 50% from max: ~ 11.2°
- Full angle C0-C180 at 10% from max: ~ 26.3°
- The light spots here represented refer to tests carried out with ~ 1600mW@LED

1. KESQ1169WIUV - SEOUL® CA3535_Flat



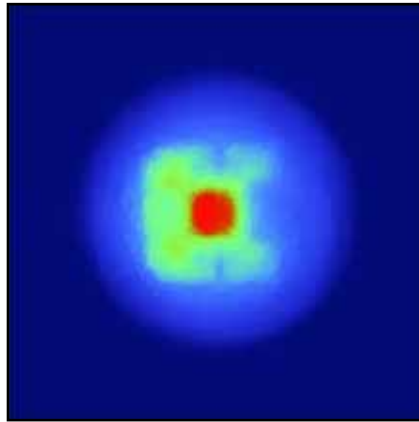
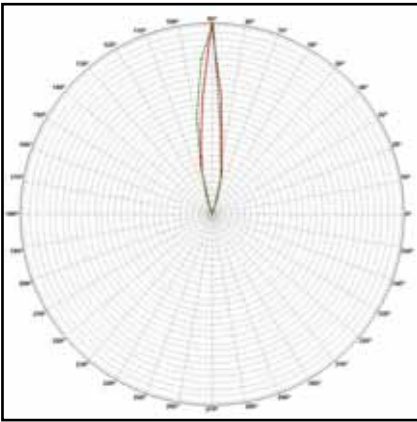
- Full angle C0-C180 at 50% from max: ~ 32.7°
- Full angle C0-C180 at 10% from max: ~ 62.8°
- The light spots here represented refer to tests carried out with ~ 1600mW@LED

1. KESQ1169ELUV - SEOUL® CA3535_Flat



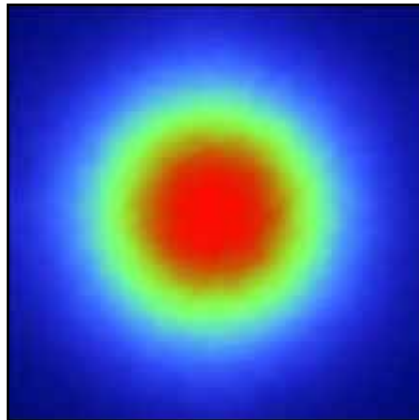
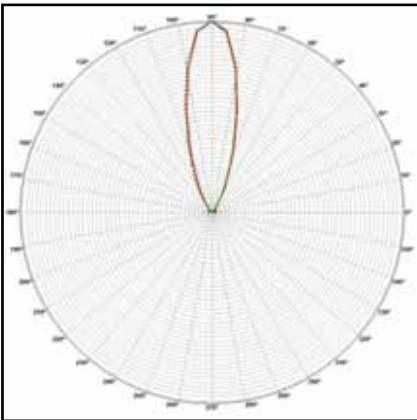
- Full angle C0-C180 at 50% from max: ~ 15°x53°
- Full angle C0-C180 at 10% from max: ~ 29°x79°
- The light spots here represented refer to tests carried out with ~ 1600mW@LED

1. KESQ1169NAUV - LG® 3535



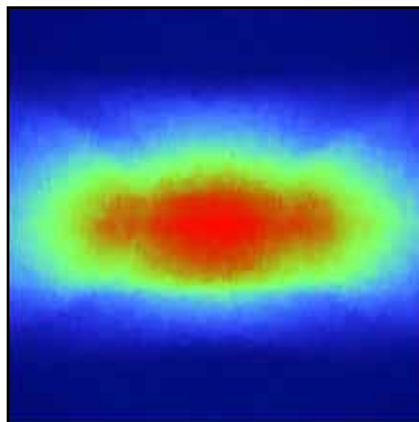
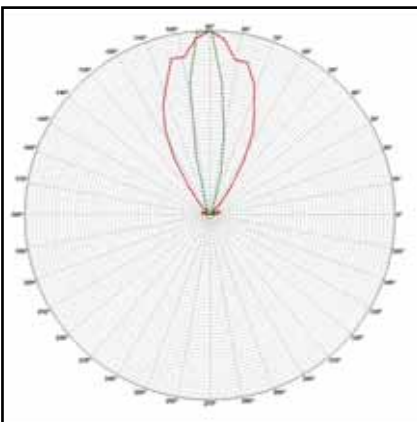
- Full angle C0-C180 at 50% from max: ~ 12.2°
- Full angle C0-C180 at 10% from max: ~ 34.3°
- The light spots here represented refer to tests carried out with ~ 1900mW@LED

1. KESQ1169WIUV - LG® 3535



- Full angle C0-C180 at 50% from max: ~ 29.3°
- Full angle C0-C180 at 10% from max: ~ 60.5°
- The light spots here represented refer to tests carried out with ~ 1900mW@LED

1. KESQ1169ELUV - LG® 3535



- Full angle C0-C180 at 50% from max: ~ 19°x54°
- Full angle C0-C180 at 10% from max: ~ 34°x80°
- The light spots here represented refer to tests carried out with ~ 1900mW@LED

Materials

| Material | Top |
|--|-------------|
| PMMA UV for Class A | -40°...90°C |
| The Adhesive Tape datasheet, is available at 3M website. | |

Notes:

- The optical values shown are the result of optical simulations carried out with LIGHTTOOLS, ASAP and ZEMAX software systems. The optical simulations are carried out on the basis of the typical values provided in the LED manufacturers' official datasheets. The photometric analysis has been carried out on physical samples. On request, by supplying your PCB, we can provide the measurement photometric file.

Use and Maintenance

- DO NOT HANDLE OR INSTALL LENSES WITHOUT WEARING GLOVES, SKIN OILS MAY DAMAGE LENS OR LIGHT TRANSMISSION;
- CLEAN LENSES WITH MILD SOAP AND WATER AND A SOFT CLOTH;
- DO NOT USE ANY COMMERCIAL CLEANING SOLVENTS ON LENSES.

Disclaimer

Please note that flow lines and weld lines on the external surfaces of the lenses are acceptable if the optical performance of the lens is within the specifications.

Should you require further information, please contact Khatod for advice. All lens testing must be subject to identical conditions as Khatod test condition. Khatod Optoelectronic, Milan, Italy, manufactures lenses for LEDs. Any other use of the lens shall void our liability and warranty. The lenses are an inert component to be used in the manufacture of various products. Our warranty and liability are limited only to the manufacture of the lens. You may not modify, copy, distribute reproduce, license or alter the lens and related materials of Khatod. Khatod does not warrant against damages or defects arising out of the use or misuse of the products; against defects or damage arising from improper installation, or against defects in the product or in its components. No warranty of any kind, expressed or implied, is made regarding the safety of the products. The entire risk as to the quality or performance of the product is with the buyer. In no event shall Khatod be liable for any direct, indirect, punitive, incidental, special, consequential damages, or any damages whatsoever arising out of or connected with the use or misuse of the product. Khatod shall not have any obligation with respect to the product or any part thereof, whether based on contract, tort, strict liability or otherwise. Buyer assumes all risks and liability from use of the product. The laws of Milan, Italy govern this product warranty and liability and you hereby consent to the exclusive jurisdiction and venue of courts in Milan, Italy in all disputes arising out of or relating to the use of this product. Production, marketing, distribution, sale of these products as well as their possible modifications and variations are only exclusive right of Khatod Optoelectronic. No company can perform any of these actions without written permission released by Khatod Optoelectronic. The information contained in this document is proprietary of Khatod Optoelectronic and may change without notice.

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