

PHOTOMETRIC RESULTS

| | | | |
|-------------------|----------------------------|----------------------|------------------|
| Name: | OREO Out D1270 bLINE 927 W | | |
| Number: | 01 | Diameter: | 1270 mm |
| Report: | 19-06-2018 | Length: | 0 mm |
| Meas.-no.: | 01 | Width: | 0 mm |
| Lamp type: | LED 927 - 01 | Height: | 35 mm |
| Number: | 1 | Power: | 53 W |
| Lamp flux: | 4940,00 lm | Operator: | INDEL AGUE GROUP |
| Date: | 03-09-2018 11:27:22 | Output ratio: | 48,3 % |

Protocol

LiTG-class: C11
UTE-class: Not available
IES-class: 9 - 31 - 63 - 50 - 48
TM5-class: BZ10

| | | |
|--|------------|----------|
| Divergences in the plane through maximum intensity: | Horizontal | Vertical |
| One half peak divergence | 268,1° | 267,9° |
| Half peak side angle (left) | -134,0° | -134,0° |
| Half peak side angle (right) | 134,0° | 134,0° |
| One tenth peak divergence | 325,0° | 325,0° |
| Tenth peak side angle (left) | -162,5° | -162,5° |
| Tenth peak side angle (right) | 162,5° | 162,5° |

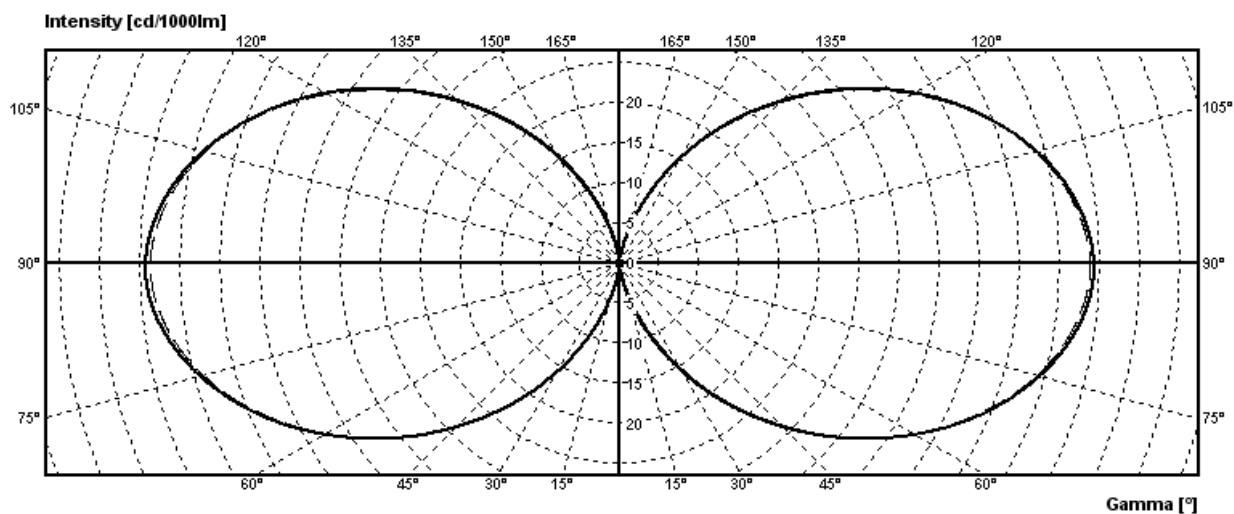
| | | | | | | | | | | |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| C-planes: | 0,0° | 15,0° | 30,0° | 45,0° | 60,0° | 75,0° | 90,0° | 105,0° | 120,0° | 135,0° |
| | 150,0° | 165,0° | 180,0° | 195,0° | 210,0° | 225,0° | 240,0° | 255,0° | 270,0° | 285,0° |
| | 300,0° | 315,0° | 330,0° | 345,0° | | | | | | |

| | | | | | | | | | | |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Gamma: | 0,0° | 5,0° | 10,0° | 15,0° | 20,0° | 25,0° | 30,0° | 35,0° | 40,0° | 45,0° |
| | 50,0° | 55,0° | 60,0° | 65,0° | 70,0° | 75,0° | 80,0° | 85,0° | 90,0° | 95,0° |
| | 100,0° | 105,0° | 110,0° | 115,0° | 120,0° | 125,0° | 130,0° | 135,0° | 140,0° | 145,0° |
| | 150,0° | 155,0° | 160,0° | 165,0° | 170,0° | 175,0° | 180,0° | | | |

PHOTOMETRIC RESULTS

| | | | |
|------------|----------------------------|---------------|-----------------|
| Name: | OREO Out D1270 bLINE 927 W | | |
| Number: | 01 | Diameter: | 1270 mm |
| Report: | 19-06-2018 | Length: | 0 mm |
| Meas.-no.: | 01 | Width: | 0 mm |
| Lamp type: | LED 927 - 01 | Height: | 35 mm |
| Number: | 1 | Power: | 53 W |
| Lamp flux: | 4940,00 lm | Operator: | INDELAGUE GROUP |
| Date: | 03-09-2018 11:27:22 | Output ratio: | 48,3 % |

Polar diagram OREO Out D1270 bLINE 927 W / Total in 15° C / 5° G



PHOTOMETRIC RESULTS

| | | | |
|-------------------|-----------------------------------|----------------------|------------------|
| Name: | OREO Out D1270 bLINE 927 W | | |
| Number: | 01 | Diameter: | 1270 mm |
| Report: | 19-06-2018 | Length: | 0 mm |
| Meas.-no.: | 01 | Width: | 0 mm |
| Lamp type: | LED 927 - 01 | Height: | 35 mm |
| Number: | 1 | Power: | 53 W |
| Lamp flux: | 4940,00 lm | Operator: | INDEL AGUE GROUP |
| Date: | 03-09-2018 11:27:22 | Output ratio: | 48,3 % |

UGR Unified Glare Ratios

| | | | | | | | | | | | |
|---------------------------------|------------|-------------------------|------------|------------|------------|------------|-----------------------|------------|------------|------------|------------|
| Ceiling reflectance | | 0,7 | 0,7 | 0,5 | 0,5 | 0,3 | 0,7 | 0,7 | 0,5 | 0,5 | 0,3 |
| Wall reflectance | | 0,5 | 0,3 | 0,5 | 0,3 | 0,3 | 0,5 | 0,3 | 0,5 | 0,3 | 0,3 |
| Floor cavity reflectance | | 0,2 | 0,2 | 0,2 | 0,2 | 0,2 | 0,2 | 0,2 | 0,2 | 0,2 | 0,2 |
| Room dimension | | Viewed crosswise | | | | | Viewed endwise | | | | |
| 2H | 2H | 4,2 | 5,3 | 5,1 | 6,3 | 7,5 | 4,2 | 5,3 | 5,1 | 6,2 | 7,5 |
| 2H | 3H | 8,4 | 9,4 | 9,3 | 10,4 | 11,6 | 8,4 | 9,4 | 9,3 | 10,3 | 11,6 |
| 2H | 4H | 10,7 | 11,6 | 11,6 | 12,6 | 13,9 | 10,6 | 11,6 | 11,6 | 12,6 | 13,8 |
| 2H | 6H | 13,1 | 14,0 | 14,0 | 15,0 | 16,3 | 13,0 | 14,0 | 14,0 | 14,9 | 16,2 |
| 2H | 8H | 14,3 | 15,2 | 15,3 | 16,2 | 17,5 | 14,3 | 15,2 | 15,2 | 16,1 | 17,4 |
| 2H | 12H | 15,6 | 16,5 | 16,6 | 17,5 | 18,8 | 15,6 | 16,5 | 16,5 | 17,4 | 18,7 |
| 4H | 2H | 5,7 | 6,7 | 6,6 | 7,6 | 8,9 | 5,7 | 6,6 | 6,6 | 7,6 | 8,9 |
| 4H | 3H | 9,9 | 10,7 | 10,8 | 11,7 | 13,0 | 9,8 | 10,7 | 10,8 | 11,7 | 13,0 |
| 4H | 4H | 12,3 | 13,1 | 13,2 | 14,0 | 15,4 | 12,2 | 13,0 | 13,2 | 14,0 | 15,3 |
| 4H | 6H | 14,7 | 15,5 | 15,7 | 16,5 | 17,8 | 14,7 | 15,4 | 15,7 | 16,4 | 17,8 |
| 4H | 8H | 16,1 | 16,8 | 17,0 | 17,8 | 19,1 | 16,0 | 16,7 | 17,0 | 17,7 | 19,0 |
| 4H | 12H | 17,5 | 18,2 | 18,5 | 19,2 | 20,5 | 17,5 | 18,1 | 18,5 | 19,1 | 20,5 |
| 8H | 4H | 13,2 | 13,8 | 14,1 | 14,9 | 16,2 | 13,1 | 13,8 | 14,1 | 14,8 | 16,2 |
| 8H | 6H | 15,9 | 16,5 | 16,8 | 17,5 | 18,8 | 15,8 | 16,4 | 16,8 | 17,4 | 18,8 |
| 8H | 8H | 17,4 | 17,9 | 18,4 | 19,0 | 20,3 | 17,4 | 17,9 | 18,4 | 18,9 | 20,3 |
| 8H | 12H | 19,0 | 19,5 | 20,0 | 20,5 | 21,8 | 18,9 | 19,4 | 19,9 | 20,5 | 21,8 |
| 12H | 4H | 13,4 | 14,1 | 14,4 | 15,1 | 16,4 | 13,4 | 14,1 | 14,4 | 15,1 | 16,4 |
| 12H | 6H | 16,3 | 16,8 | 17,3 | 17,8 | 19,2 | 16,2 | 16,8 | 17,2 | 17,8 | 19,1 |
| 12H | 8H | 17,8 | 18,3 | 18,8 | 19,4 | 20,7 | 17,8 | 18,3 | 18,8 | 19,3 | 20,7 |

UGR values are corrected for lamp flux of 4940 lm by 5,5

PHOTOMETRIC RESULTS

| | | | |
|-------------------|-----------------------------------|----------------------|------------------|
| Name: | OREO Out D1270 bLINE 927 W | | |
| Number: | 01 | Diameter: | 1270 mm |
| Report: | 19-06-2018 | Length: | 0 mm |
| Meas.-no.: | 01 | Width: | 0 mm |
| Lamp type: | LED 927 - 01 | Height: | 35 mm |
| Number: | 1 | Power: | 53 W |
| Lamp flux: | 4940,00 lm | Operator: | INDEL AGUE GROUP |
| Date: | 03-09-2018 11:27:22 | Output ratio: | 48,3 % |

Luminance [cd/m²] OREO Out D1270 bLINE 927 W / Total in 15° C / 5° G

| G/C [cd/ | 0,00 | 15,00 | 30,00 | 45,00 | 60,00 | 75,00 | 90,00 | 105,00 | 120,00 |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 45,00 | 177,63 | 177,41 | 177,15 | 177,24 | 176,68 | 176,38 | 176,21 | 176,38 | 176,68 |
| 50,00 | 227,19 | 226,81 | 226,29 | 226,43 | 225,86 | 225,53 | 225,67 | 225,53 | 225,86 |
| 55,00 | 289,95 | 289,21 | 288,89 | 289,00 | 288,47 | 287,94 | 288,20 | 287,94 | 288,47 |
| 60,00 | 371,90 | 371,41 | 370,13 | 370,07 | 369,53 | 369,65 | 369,71 | 369,65 | 369,53 |
| 65,00 | 484,81 | 483,73 | 483,08 | 482,00 | 481,50 | 481,78 | 481,78 | 481,78 | 481,50 |
| 70,00 | 648,56 | 647,67 | 645,97 | 645,62 | 645,08 | 645,17 | 645,08 | 645,17 | 645,08 |
| 75,00 | 913,75 | 912,81 | 910,10 | 909,63 | 908,81 | 908,45 | 908,22 | 908,45 | 908,81 |
| 80,00 | 1429,08 | 1427,50 | 1422,24 | 1421,54 | 1418,73 | 1418,38 | 1417,33 | 1418,38 | 1418,73 |
| 85,00 | 2936,72 | 2933,58 | 2922,75 | 2917,85 | 2911,92 | 2909,82 | 2907,72 | 2909,82 | 2911,92 |

| G/C [cd/ | 135,00 | 150,00 | 165,00 | 180,00 | 195,00 | 210,00 | 225,00 | 240,00 | 255,00 |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 45,00 | 177,24 | 177,15 | 177,41 | 177,63 | 177,41 | 177,15 | 177,24 | 176,68 | 176,38 |
| 50,00 | 226,43 | 226,29 | 226,81 | 227,19 | 226,81 | 226,29 | 226,43 | 225,86 | 225,53 |
| 55,00 | 289,00 | 288,89 | 289,21 | 289,95 | 289,21 | 288,89 | 289,00 | 288,47 | 287,94 |
| 60,00 | 370,07 | 370,13 | 371,41 | 371,90 | 371,41 | 370,13 | 370,07 | 369,53 | 369,65 |
| 65,00 | 482,00 | 483,08 | 483,73 | 484,81 | 483,73 | 483,08 | 482,00 | 481,50 | 481,78 |
| 70,00 | 645,62 | 645,97 | 647,67 | 648,56 | 647,67 | 645,97 | 645,62 | 645,08 | 645,17 |
| 75,00 | 909,63 | 910,10 | 912,81 | 913,75 | 912,81 | 910,10 | 909,63 | 908,81 | 908,45 |
| 80,00 | 1421,54 | 1422,24 | 1427,50 | 1429,08 | 1427,50 | 1422,24 | 1421,54 | 1418,73 | 1418,38 |
| 85,00 | 2917,85 | 2922,75 | 2933,58 | 2936,72 | 2933,58 | 2922,75 | 2917,85 | 2911,92 | 2909,82 |

| G/C [cd/ | 270,00 | 285,00 | 300,00 | 315,00 | 330,00 | 345,00 |
|----------|---------|---------|---------|---------|---------|---------|
| 45,00 | 176,21 | 176,38 | 176,68 | 177,24 | 177,15 | 177,41 |
| 50,00 | 225,67 | 225,53 | 225,86 | 226,43 | 226,29 | 226,81 |
| 55,00 | 288,20 | 287,94 | 288,47 | 289,00 | 288,89 | 289,21 |
| 60,00 | 369,71 | 369,65 | 369,53 | 370,07 | 370,13 | 371,41 |
| 65,00 | 481,78 | 481,78 | 481,50 | 482,00 | 483,08 | 483,73 |
| 70,00 | 645,08 | 645,17 | 645,08 | 645,62 | 645,97 | 647,67 |
| 75,00 | 908,22 | 908,45 | 908,81 | 909,63 | 910,10 | 912,81 |
| 80,00 | 1417,33 | 1418,38 | 1418,73 | 1421,54 | 1422,24 | 1427,50 |
| 85,00 | 2907,72 | 2909,82 | 2911,92 | 2917,85 | 2922,75 | 2933,58 |

HEADQUARTERS

INDÚSTRIA ELÉTRICA DE ÁGUEDA S.A.

Rua da Mina 465 | Covão | Zona industrial EN1 Norte

3750-792 Trofa ÁGUEDA | PORTUGAL

www.indelague.com | www.roxolighting.com

indelague@indelague.pt | roxo.london@roxolighting.com

Tel. (+351) 234 612 310

Fax (+351) 234 624 058