

PHOTOMETRIC RESULTS

| | | | |
|-------------------|---|----------------------|------------------|
| Name: | REBA 50 /E EXT LINE L2529 SRT/END+INT ASYM K3 840 HO | | |
| Number: | 90506-83+90500L009 | Diameter: | 0 mm |
| Report: | 23-01-2020 | Length: | 2529 mm |
| Meas.-no.: | 01 | Width: | 62 mm |
| Lamp type: | LED 840 - 01 | Height: | 72 mm |
| Number: | 01 | Power: | 72,17 W |
| Lamp flux: | 11223,00 lm | Operator: | INDEL AGUE GROUP |
| Date: | 23-01-2020 15:20:22 | Output ratio: | 56,7 % |

Protocol

LiTG-class: A50
UTE-class: 0,57 D
IES-class: 60 - 88 - 97 - 100 - 57
TM5-class: BZ3

| | | |
|--|------------|----------|
| Divergences in the plane through maximum intensity: | Horizontal | Vertical |
| One half peak divergence | 94,2° | 54,4° |
| Half peak side angle (left) | -47,1° | -39,9° |
| Half peak side angle (right) | 47,1° | 14,5° |
| One tenth peak divergence | 141,1° | 130,7° |
| Tenth peak side angle (left) | -70,6° | -62,4° |
| Tenth peak side angle (right) | 70,6° | 68,3° |

| | | | | | | | | | | |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 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° | |

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Polar diagram REBA 50 /E EXT LINE L2529 SRT/END+INT ASYM K3 840 HO / Direct: iim
15° C / 5° G



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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 | 16,4 | 17,8 | 16,7 | 18,2 | 18,5 | 20,0 | 21,5 | 20,4 | 21,8 | 22,1 |
| 2H | 3H | 16,9 | 18,2 | 17,3 | 18,5 | 18,9 | 20,7 | 22,1 | 21,1 | 22,4 | 22,7 |
| 2H | 4H | 17,1 | 18,3 | 17,5 | 18,7 | 19,0 | 21,0 | 22,2 | 21,4 | 22,6 | 22,9 |
| 2H | 6H | 17,2 | 18,3 | 17,6 | 18,7 | 19,1 | 21,2 | 22,3 | 21,6 | 22,7 | 23,1 |
| 2H | 8H | 17,2 | 18,3 | 17,6 | 18,7 | 19,1 | 21,2 | 22,3 | 21,6 | 22,7 | 23,1 |
| 2H | 12H | 17,2 | 18,2 | 17,6 | 18,6 | 19,0 | 21,2 | 22,3 | 21,6 | 22,7 | 23,1 |
| 4H | 2H | 16,9 | 18,1 | 17,3 | 18,5 | 18,8 | 20,1 | 21,3 | 20,5 | 21,7 | 22,0 |
| 4H | 3H | 17,5 | 18,5 | 17,9 | 18,9 | 19,3 | 20,8 | 21,9 | 21,3 | 22,3 | 22,7 |
| 4H | 4H | 17,8 | 18,7 | 18,2 | 19,1 | 19,6 | 21,2 | 22,1 | 21,6 | 22,5 | 23,0 |
| 4H | 6H | 18,0 | 18,8 | 18,4 | 19,2 | 19,7 | 21,4 | 22,2 | 21,9 | 22,7 | 23,1 |
| 4H | 8H | 18,0 | 18,8 | 18,5 | 19,2 | 19,7 | 21,5 | 22,3 | 22,0 | 22,7 | 23,2 |
| 4H | 12H | 18,0 | 18,7 | 18,5 | 19,2 | 19,7 | 21,6 | 22,3 | 22,0 | 22,7 | 23,2 |
| 8H | 4H | 17,9 | 18,7 | 18,4 | 19,1 | 19,6 | 21,1 | 21,9 | 21,6 | 22,4 | 22,8 |
| 8H | 6H | 18,1 | 18,8 | 18,6 | 19,3 | 19,8 | 21,4 | 22,0 | 21,9 | 22,5 | 23,0 |
| 8H | 8H | 18,3 | 18,8 | 18,8 | 19,4 | 19,8 | 21,6 | 22,1 | 22,1 | 22,6 | 23,1 |
| 8H | 12H | 18,3 | 18,8 | 18,9 | 19,3 | 19,8 | 21,6 | 22,1 | 22,2 | 22,6 | 23,1 |
| 12H | 4H | 17,9 | 18,6 | 18,4 | 19,1 | 19,6 | 21,1 | 21,8 | 21,6 | 22,3 | 22,8 |
| 12H | 6H | 18,2 | 18,8 | 18,7 | 19,3 | 19,8 | 21,4 | 22,0 | 22,0 | 22,5 | 23,0 |
| 12H | 8H | 18,3 | 18,8 | 18,8 | 19,3 | 19,8 | 21,6 | 22,0 | 22,1 | 22,5 | 23,0 |

UGR values are corrected for lamp flux of 11223 lm by 8,4

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Luminance [cd/m²] REBA 50 /E EXT LINE L2529 SRT/END+INT ASYM K3 840 HO /
Direct 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 | 4635,73 | 4783,57 | 4969,57 | 5611,66 | 7267,01 | 11980,7 | 21759,8 | 17817,1 | 13856,7 |
| 50,00 | 3971,20 | 3916,19 | 4136,14 | 4656,51 | 6024,64 | 9452,77 | 18085,2 | 14022,7 | 10609,2 |
| 55,00 | 3229,38 | 3178,23 | 3524,10 | 3888,89 | 4963,87 | 7471,43 | 14930,4 | 10664,7 | 7807,75 |
| 60,00 | 2589,55 | 2523,14 | 2974,84 | 3236,61 | 4035,00 | 5940,95 | 12242,5 | 7950,99 | 5638,36 |
| 65,00 | 2095,01 | 2046,96 | 2369,78 | 2590,60 | 3269,87 | 4576,93 | 9912,59 | 5760,32 | 3995,14 |
| 70,00 | 1671,29 | 1658,77 | 1818,65 | 2026,62 | 2513,92 | 3541,91 | 8015,93 | 4100,66 | 2745,97 |
| 75,00 | 1281,42 | 1242,30 | 1369,93 | 1517,25 | 1898,98 | 2765,62 | 6757,00 | 2933,23 | 1919,48 |
| 80,00 | 949,43 | 836,30 | 956,64 | 1056,32 | 1332,96 | 2009,54 | 5705,05 | 2009,54 | 1289,02 |
| 85,00 | 551,26 | 422,87 | 504,12 | 563,25 | 708,36 | 1108,21 | 4232,38 | 1108,21 | 700,40 |

| G/C [cd/ | 135,00 | 150,00 | 165,00 | 180,00 | 195,00 | 210,00 | 225,00 | 240,00 | 255,00 |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 45,00 | 10911,8 | 9366,72 | 8119,26 | 5658,54 | 8119,26 | 9366,72 | 10911,8 | 13856,7 | 17817,1 |
| 50,00 | 8318,56 | 6227,30 | 5028,34 | 3688,58 | 5028,34 | 6227,30 | 8318,56 | 10609,2 | 14022,7 |
| 55,00 | 5691,05 | 4161,04 | 3460,40 | 2754,68 | 3460,40 | 4161,04 | 5691,05 | 7807,75 | 10664,7 |
| 60,00 | 3909,90 | 2995,91 | 2562,38 | 2042,87 | 2562,38 | 2995,91 | 3909,90 | 5638,36 | 7950,99 |
| 65,00 | 2698,75 | 2169,10 | 1912,34 | 1515,08 | 1912,34 | 2169,10 | 2698,75 | 3995,14 | 5760,32 |
| 70,00 | 1894,89 | 1596,22 | 1441,36 | 1133,83 | 1441,36 | 1596,22 | 1894,89 | 2745,97 | 4100,66 |
| 75,00 | 1390,82 | 1208,23 | 1073,08 | 836,69 | 1073,08 | 1208,23 | 1390,82 | 1919,48 | 2933,23 |
| 80,00 | 962,31 | 830,64 | 716,83 | 513,62 | 716,83 | 830,64 | 962,31 | 1289,02 | 2009,54 |
| 85,00 | 545,65 | 484,55 | 427,32 | 299,95 | 427,32 | 484,55 | 545,65 | 700,40 | 1108,21 |

| G/C [cd/ | 270,00 | 285,00 | 300,00 | 315,00 | 330,00 | 345,00 |
|----------|---------|---------|---------|---------|---------|---------|
| 45,00 | 21759,8 | 11980,7 | 7267,01 | 5611,66 | 4969,57 | 4783,57 |
| 50,00 | 18085,2 | 9452,77 | 6024,64 | 4656,51 | 4136,14 | 3916,19 |
| 55,00 | 14930,4 | 7471,43 | 4963,87 | 3888,89 | 3524,10 | 3178,23 |
| 60,00 | 12242,5 | 5940,95 | 4035,00 | 3236,61 | 2974,84 | 2523,14 |
| 65,00 | 9912,59 | 4576,93 | 3269,87 | 2590,60 | 2369,78 | 2046,96 |
| 70,00 | 8015,93 | 3541,91 | 2513,92 | 2026,62 | 1818,65 | 1658,77 |
| 75,00 | 6757,00 | 2765,62 | 1898,98 | 1517,25 | 1369,93 | 1242,30 |
| 80,00 | 5705,05 | 2009,54 | 1332,96 | 1056,32 | 956,64 | 836,30 |
| 85,00 | 4232,38 | 1108,21 | 708,36 | 563,25 | 504,12 | 422,87 |

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