

PHOTOMETRIC RESULTS

| | | | |
|-------------------|--|----------------------|------------------|
| Name: | REBA 50 /E EXT LINE L2804 MID+INT ASYM K3 830 HO | | |
| Number: | 90506+90500L010 | Diameter: | 0 mm |
| Report: | 23-01-2020 | Length: | 2804 mm |
| Meas.-no.: | 01 | Width: | 62 mm |
| Lamp type: | LED 830 - 01 | Height: | 72 mm |
| Number: | 01 | Power: | 79,85 W |
| Lamp flux: | 12000,00 lm | Operator: | INDEL AGUE GROUP |
| Date: | 23-01-2020 14:54:30 | Output ratio: | 58,5 % |

Protocol

LiTG-class: A50
UTE-class: 0,59 D
IES-class: 59 - 87 - 97 - 100 - 59
TM5-class: BZ3/2.50/BZ4

Divergences in the plane through maximum intensity:

| | Horizontal | Vertical |
|-------------------------------|------------|----------|
| One half peak divergence | 94,9° | 52,9° |
| Half peak side angle (left) | -47,4° | -38,8° |
| Half peak side angle (right) | 47,4° | 14,1° |
| One tenth peak divergence | 144,1° | 133,0° |
| Tenth peak side angle (left) | -72,0° | -63,2° |
| Tenth peak side angle (right) | 72,0° | 69,8° |

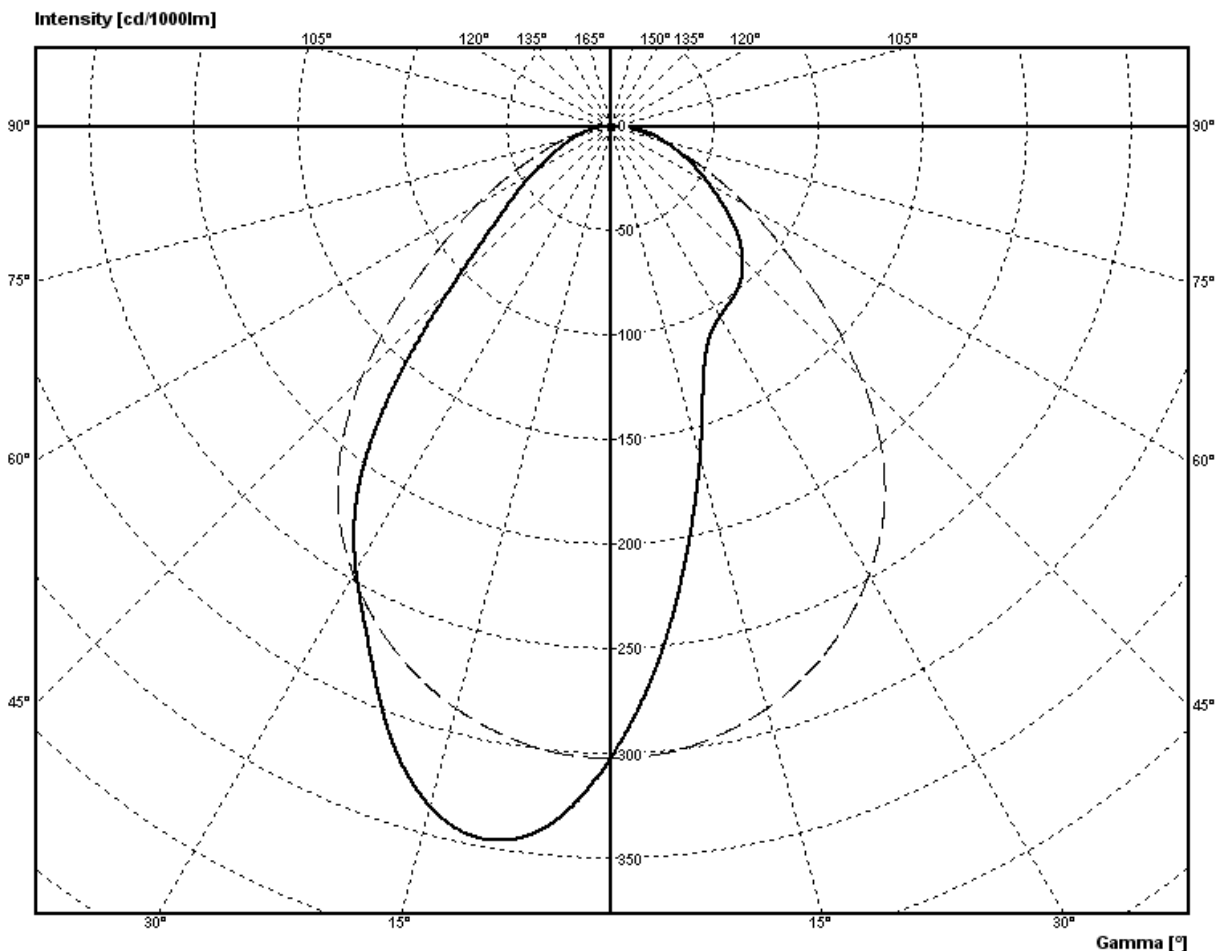
| | | | | | | | | | | |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| C-planes: | 0,0° | 15,0° | 30,0° | 45,0° | 60,0° | 75,0° | 90,0° | 105,0° | 120,0° | 135,0° |
| | 150,0° | 165,0° | 180,0° | 195,0° | 210,0° | 225,0° | 240,0° | 255,0° | 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 L2804 MID+INT ASYM K3 830 HO / Direct in 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 | 17,9 | 16,7 | 18,2 | 18,5 | 20,2 | 21,7 | 20,6 | 22,0 | 22,3 |
| 2H | 3H | 16,9 | 18,3 | 17,3 | 18,6 | 19,0 | 21,0 | 22,3 | 21,4 | 22,7 | 23,0 |
| 2H | 4H | 17,1 | 18,4 | 17,5 | 18,8 | 19,1 | 21,3 | 22,5 | 21,7 | 22,9 | 23,2 |
| 2H | 6H | 17,3 | 18,5 | 17,7 | 18,8 | 19,2 | 21,5 | 22,7 | 21,9 | 23,0 | 23,4 |
| 2H | 8H | 17,3 | 18,4 | 17,7 | 18,8 | 19,2 | 21,5 | 22,7 | 21,9 | 23,0 | 23,4 |
| 2H | 12H | 17,3 | 18,4 | 17,7 | 18,8 | 19,2 | 21,6 | 22,6 | 22,0 | 23,0 | 23,4 |
| 4H | 2H | 16,9 | 18,2 | 17,3 | 18,5 | 18,9 | 20,2 | 21,5 | 20,6 | 21,8 | 22,2 |
| 4H | 3H | 17,6 | 18,7 | 18,0 | 19,0 | 19,5 | 21,1 | 22,2 | 21,5 | 22,6 | 23,0 |
| 4H | 4H | 17,9 | 18,9 | 18,4 | 19,3 | 19,7 | 21,5 | 22,4 | 21,9 | 22,9 | 23,3 |
| 4H | 6H | 18,1 | 19,0 | 18,6 | 19,4 | 19,8 | 21,7 | 22,6 | 22,2 | 23,0 | 23,5 |
| 4H | 8H | 18,2 | 19,0 | 18,6 | 19,4 | 19,9 | 21,8 | 22,6 | 22,3 | 23,1 | 23,5 |
| 4H | 12H | 18,2 | 18,9 | 18,7 | 19,4 | 19,9 | 21,9 | 22,6 | 22,4 | 23,1 | 23,6 |
| 8H | 4H | 18,1 | 18,9 | 18,5 | 19,3 | 19,8 | 21,5 | 22,2 | 21,9 | 22,7 | 23,1 |
| 8H | 6H | 18,3 | 19,0 | 18,8 | 19,5 | 20,0 | 21,7 | 22,4 | 22,2 | 22,9 | 23,4 |
| 8H | 8H | 18,5 | 19,1 | 19,0 | 19,6 | 20,1 | 21,9 | 22,5 | 22,4 | 23,0 | 23,5 |
| 8H | 12H | 18,5 | 19,0 | 19,1 | 19,5 | 20,0 | 22,0 | 22,5 | 22,5 | 23,0 | 23,5 |
| 12H | 4H | 18,1 | 18,8 | 18,6 | 19,2 | 19,8 | 21,4 | 22,2 | 21,9 | 22,6 | 23,1 |
| 12H | 6H | 18,4 | 19,0 | 18,9 | 19,5 | 20,0 | 21,8 | 22,3 | 22,3 | 22,8 | 23,3 |
| 12H | 8H | 18,5 | 19,0 | 19,1 | 19,5 | 20,0 | 21,9 | 22,4 | 22,4 | 22,9 | 23,4 |

UGR values are corrected for lamp flux of 12000 lm by 8,6

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Luminance [cd/m²] REBA 50 /E EXT LINE L2804 MID+INT ASYM K3 830 HO / Direct im
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 | 4586,42 | 4711,53 | 4957,50 | 5637,07 | 7123,49 | 11554,3 | 21647,4 | 17750,5 | 14051,9 |
| 50,00 | 3995,02 | 3947,08 | 4181,90 | 4779,18 | 6113,90 | 9414,24 | 18544,6 | 14342,1 | 11050,8 |
| 55,00 | 3309,02 | 3243,52 | 3544,18 | 4006,61 | 5176,00 | 7603,60 | 15524,4 | 11173,5 | 8241,22 |
| 60,00 | 2716,58 | 2652,74 | 3008,73 | 3348,93 | 4305,46 | 6165,30 | 13100,5 | 8444,90 | 5992,68 |
| 65,00 | 2209,90 | 2158,38 | 2452,17 | 2716,73 | 3476,65 | 4896,35 | 10833,0 | 6217,81 | 4198,50 |
| 70,00 | 1749,61 | 1738,54 | 1936,92 | 2152,84 | 2719,59 | 3846,91 | 8951,39 | 4460,30 | 2853,51 |
| 75,00 | 1369,07 | 1337,50 | 1478,23 | 1666,44 | 2080,01 | 3000,27 | 7475,06 | 3193,03 | 2003,58 |
| 80,00 | 1014,96 | 926,39 | 1040,08 | 1184,05 | 1475,39 | 2166,86 | 6221,48 | 2166,86 | 1346,58 |
| 85,00 | 642,16 | 493,89 | 570,88 | 642,21 | 801,86 | 1216,59 | 4726,88 | 1172,74 | 738,22 |

| G/C [cd/ | 135,00 | 150,00 | 165,00 | 180,00 | 195,00 | 210,00 | 225,00 | 240,00 | 255,00 |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 45,00 | 11093,2 | 8932,98 | 7587,61 | 5528,43 | 7587,61 | 8932,98 | 11093,2 | 14051,9 | 17750,5 |
| 50,00 | 8181,05 | 6090,08 | 4985,79 | 3716,70 | 4985,79 | 6090,08 | 8181,05 | 11050,8 | 14342,1 |
| 55,00 | 5733,47 | 4136,55 | 3481,23 | 2768,07 | 3481,23 | 4136,55 | 5733,47 | 8241,22 | 11173,5 |
| 60,00 | 3913,49 | 2991,90 | 2586,97 | 2077,72 | 2586,97 | 2991,90 | 3913,49 | 5992,68 | 8444,90 |
| 65,00 | 2708,88 | 2186,15 | 1937,17 | 1554,47 | 1937,17 | 2186,15 | 2708,88 | 4198,50 | 6217,81 |
| 70,00 | 1954,55 | 1626,88 | 1458,96 | 1160,52 | 1458,96 | 1626,88 | 1954,55 | 2853,51 | 4460,30 |
| 75,00 | 1460,24 | 1227,08 | 1103,60 | 880,55 | 1103,60 | 1227,08 | 1460,24 | 2003,58 | 3193,03 |
| 80,00 | 1002,91 | 849,96 | 766,31 | 554,18 | 766,31 | 849,96 | 1002,91 | 1346,58 | 2166,86 |
| 85,00 | 557,83 | 492,68 | 440,59 | 285,40 | 440,59 | 492,68 | 557,83 | 738,22 | 1172,74 |

| G/C [cd/ | 270,00 | 285,00 | 300,00 | 315,00 | 330,00 | 345,00 |
|----------|---------|---------|---------|---------|---------|---------|
| 45,00 | 21647,4 | 11554,3 | 7123,49 | 5637,07 | 4957,50 | 4711,53 |
| 50,00 | 18544,6 | 9414,24 | 6113,90 | 4779,18 | 4181,90 | 3947,08 |
| 55,00 | 15524,4 | 7603,60 | 5176,00 | 4006,61 | 3544,18 | 3243,52 |
| 60,00 | 13100,5 | 6165,30 | 4305,46 | 3348,93 | 3008,73 | 2652,74 |
| 65,00 | 10833,0 | 4896,35 | 3476,65 | 2716,73 | 2452,17 | 2158,38 |
| 70,00 | 8951,39 | 3846,91 | 2719,59 | 2152,84 | 1936,92 | 1738,54 |
| 75,00 | 7475,06 | 3000,27 | 2080,01 | 1666,44 | 1478,23 | 1337,50 |
| 80,00 | 6221,48 | 2166,86 | 1475,39 | 1184,05 | 1040,08 | 926,39 |
| 85,00 | 4726,88 | 1216,59 | 801,86 | 642,21 | 570,88 | 493,89 |

HEADQUARTERS

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