

PHOTOMETRIC RESULTS

| | | | |
|-------------------|--------------------------------------|----------------------|------------------|
| Name: | REBA 50 /T EXT L2000+INT ASYM 830 HO | | |
| Number: | 90519+90500L007 | Diameter: | 0 mm |
| Report: | 23-01-2020 | Length: | 2000 mm |
| Meas.-no.: | 01 | Width: | 70 mm |
| Lamp type: | LED 830 - 01 | Height: | 114 mm |
| Number: | 01 | Power: | 57,16 W |
| Lamp flux: | 8400,00 lm | Operator: | INDEL AGUE GROUP |
| Date: | 23-01-2020 15:43:22 | Output ratio: | 56,7 % |

Protocol

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

Divergences in the plane through maximum intensity:

| | Horizontal | Vertical |
|-------------------------------|------------|----------|
| One half peak divergence | 93,9° | 54,8° |
| Half peak side angle (left) | -46,9° | -40,0° |
| Half peak side angle (right) | 46,9° | 14,8° |
| One tenth peak divergence | 140,7° | 130,5° |
| Tenth peak side angle (left) | -70,3° | -62,5° |
| Tenth peak side angle (right) | 70,3° | 68,0° |

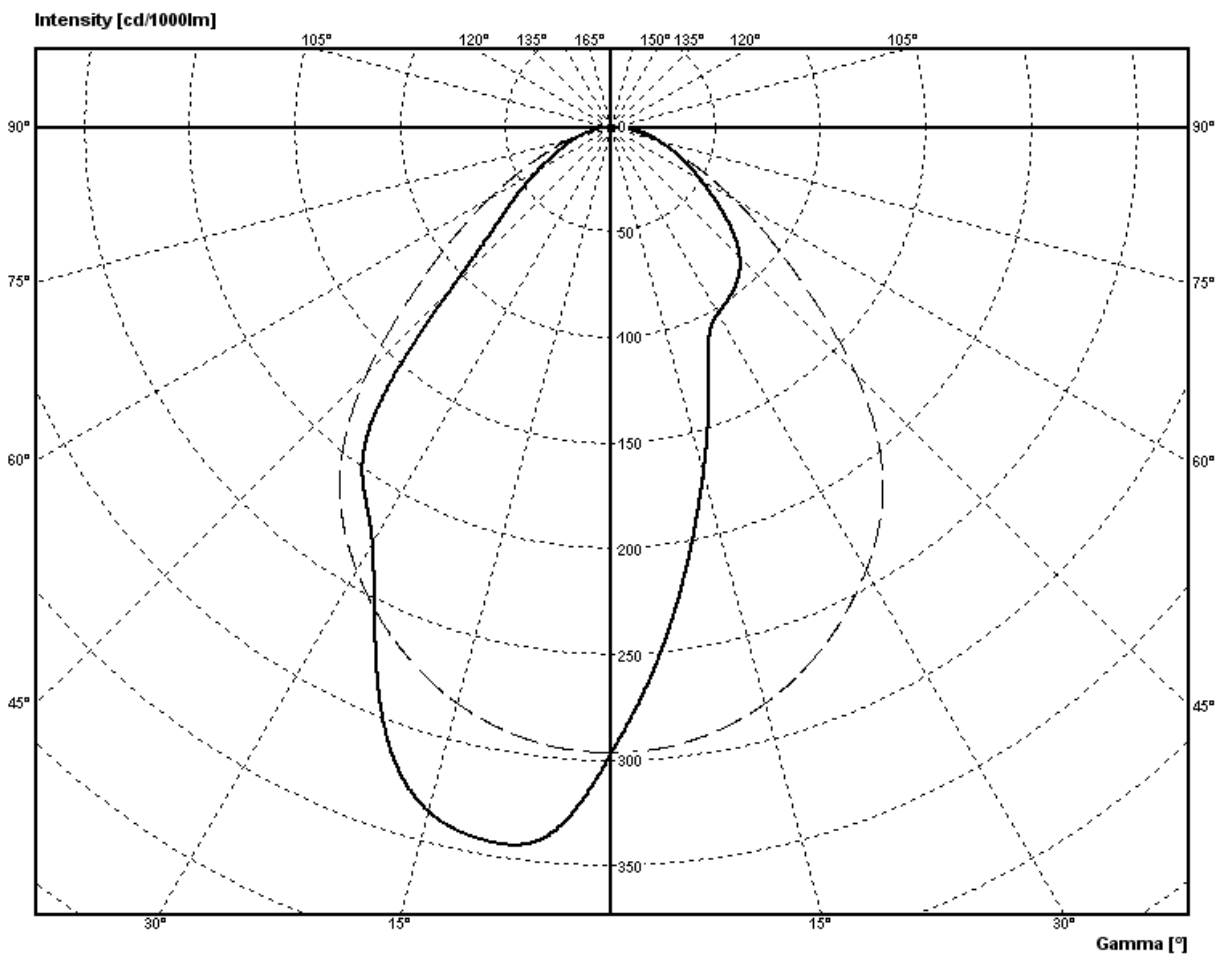
| | | | | | | | | | | |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| C-planes: | 0,0° | 15,0° | 30,0° | 45,0° | 60,0° | 75,0° | 90,0° | 105,0° | 120,0° | 135,0° |
| | 150,0° | 165,0° | 180,0° | 195,0° | 210,0° | 225,0° | 240,0° | 255,0° | 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 /T EXT L2000+INT ASYM 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 | 15,1 | 16,6 | 15,5 | 16,9 | 17,2 | 19,3 | 20,7 | 19,6 | 21,0 | 21,4 |
| 2H | 3H | 15,6 | 16,9 | 16,0 | 17,3 | 17,6 | 19,9 | 21,2 | 20,3 | 21,6 | 21,9 |
| 2H | 4H | 15,8 | 17,0 | 16,2 | 17,4 | 17,7 | 20,2 | 21,4 | 20,5 | 21,7 | 22,1 |
| 2H | 6H | 15,9 | 17,0 | 16,3 | 17,4 | 17,8 | 20,3 | 21,5 | 20,8 | 21,9 | 22,3 |
| 2H | 8H | 15,9 | 17,0 | 16,3 | 17,4 | 17,8 | 20,4 | 21,5 | 20,8 | 21,8 | 22,2 |
| 2H | 12H | 15,9 | 16,9 | 16,3 | 17,3 | 17,7 | 20,4 | 21,4 | 20,8 | 21,8 | 22,2 |
| 4H | 2H | 15,6 | 16,9 | 16,0 | 17,2 | 17,6 | 19,3 | 20,5 | 19,6 | 20,8 | 21,2 |
| 4H | 3H | 16,2 | 17,2 | 16,6 | 17,6 | 18,0 | 20,0 | 21,0 | 20,4 | 21,4 | 21,8 |
| 4H | 4H | 16,5 | 17,4 | 16,9 | 17,8 | 18,3 | 20,3 | 21,2 | 20,7 | 21,7 | 22,1 |
| 4H | 6H | 16,6 | 17,4 | 17,1 | 17,9 | 18,3 | 20,5 | 21,3 | 21,0 | 21,8 | 22,2 |
| 4H | 8H | 16,7 | 17,4 | 17,1 | 17,9 | 18,3 | 20,6 | 21,3 | 21,1 | 21,8 | 22,3 |
| 4H | 12H | 16,7 | 17,4 | 17,2 | 17,8 | 18,3 | 20,6 | 21,3 | 21,1 | 21,8 | 22,3 |
| 8H | 4H | 16,6 | 17,4 | 17,1 | 17,8 | 18,3 | 20,2 | 21,0 | 20,7 | 21,5 | 21,9 |
| 8H | 6H | 16,8 | 17,4 | 17,3 | 17,9 | 18,4 | 20,5 | 21,1 | 21,0 | 21,6 | 22,1 |
| 8H | 8H | 16,9 | 17,5 | 17,4 | 18,0 | 18,5 | 20,6 | 21,2 | 21,1 | 21,7 | 22,2 |
| 8H | 12H | 17,0 | 17,4 | 17,5 | 17,9 | 18,4 | 20,7 | 21,1 | 21,2 | 21,7 | 22,2 |
| 12H | 4H | 16,6 | 17,3 | 17,1 | 17,7 | 18,3 | 20,2 | 20,9 | 20,7 | 21,4 | 21,9 |
| 12H | 6H | 16,9 | 17,4 | 17,4 | 17,9 | 18,4 | 20,5 | 21,1 | 21,0 | 21,6 | 22,1 |
| 12H | 8H | 16,9 | 17,4 | 17,5 | 17,9 | 18,4 | 20,6 | 21,1 | 21,1 | 21,6 | 22,1 |

UGR values are corrected for lamp flux of 8400 lm by 7,4

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Luminance [cd/m²] REBA 50 /T EXT L2000+INT ASYM 830 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 | 3270,85 | 3364,82 | 3548,03 | 4097,00 | 5509,74 | 9725,53 | 20289,3 | 14388,1 | 10498,7 |
| 50,00 | 2745,65 | 2702,70 | 2890,76 | 3324,19 | 4470,95 | 7492,00 | 16721,7 | 11111,9 | 7881,73 |
| 55,00 | 2182,82 | 2149,15 | 2421,33 | 2723,29 | 3599,24 | 5795,40 | 13752,5 | 8257,98 | 5677,06 |
| 60,00 | 1724,20 | 1682,18 | 1999,70 | 2222,73 | 2865,98 | 4493,10 | 11164,3 | 5990,80 | 4022,89 |
| 65,00 | 1374,76 | 1336,68 | 1561,51 | 1733,51 | 2257,31 | 3356,45 | 8904,52 | 4240,78 | 2773,78 |
| 70,00 | 1073,95 | 1063,96 | 1180,25 | 1328,28 | 1700,85 | 2529,15 | 7095,79 | 2947,13 | 1865,00 |
| 75,00 | 809,73 | 786,28 | 868,69 | 971,59 | 1248,04 | 1909,53 | 5866,62 | 2030,77 | 1271,59 |
| 80,00 | 586,87 | 516,54 | 594,24 | 664,86 | 849,09 | 1330,27 | 4746,31 | 1338,48 | 829,46 |
| 85,00 | 328,83 | 251,54 | 302,11 | 340,37 | 439,02 | 686,76 | 3210,17 | 704,84 | 439,02 |

| G/C [cd/ | 135,00 | 150,00 | 165,00 | 180,00 | 195,00 | 210,00 | 225,00 | 240,00 | 255,00 |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 45,00 | 7971,56 | 6704,29 | 5771,22 | 4008,55 | 5771,22 | 6704,29 | 7971,56 | 10498,7 | 14388,1 |
| 50,00 | 5966,68 | 4368,40 | 3488,37 | 2567,16 | 3488,37 | 4368,40 | 5966,68 | 7881,73 | 11111,9 |
| 55,00 | 3996,47 | 2867,05 | 2378,02 | 1890,75 | 2378,02 | 2867,05 | 3996,47 | 5677,06 | 8257,98 |
| 60,00 | 2699,02 | 2038,39 | 1737,15 | 1386,42 | 1737,15 | 2038,39 | 2699,02 | 4022,89 | 5990,80 |
| 65,00 | 1830,39 | 1451,88 | 1276,67 | 1009,82 | 1276,67 | 1451,88 | 1830,39 | 2773,78 | 4240,78 |
| 70,00 | 1261,86 | 1055,39 | 949,38 | 749,27 | 949,38 | 1055,39 | 1261,86 | 1865,00 | 2947,13 |
| 75,00 | 903,97 | 784,53 | 698,30 | 548,20 | 698,30 | 784,53 | 903,97 | 1271,59 | 2030,77 |
| 80,00 | 617,37 | 532,98 | 455,11 | 331,71 | 455,11 | 532,98 | 617,37 | 829,46 | 1338,48 |
| 85,00 | 340,37 | 305,26 | 268,69 | 187,90 | 268,69 | 305,26 | 340,37 | 439,02 | 704,84 |

| G/C [cd/ | 270,00 | 285,00 | 300,00 | 315,00 | 330,00 | 345,00 |
|----------|---------|---------|---------|---------|---------|---------|
| 45,00 | 20289,3 | 9725,53 | 5509,74 | 4097,00 | 3548,03 | 3364,82 |
| 50,00 | 16721,7 | 7492,00 | 4470,95 | 3324,19 | 2890,76 | 2702,70 |
| 55,00 | 13752,5 | 5795,40 | 3599,24 | 2723,29 | 2421,33 | 2149,15 |
| 60,00 | 11164,3 | 4493,10 | 2865,98 | 2222,73 | 1999,70 | 1682,18 |
| 65,00 | 8904,52 | 3356,45 | 2257,31 | 1733,51 | 1561,51 | 1336,68 |
| 70,00 | 7095,79 | 2529,15 | 1700,85 | 1328,28 | 1180,25 | 1063,96 |
| 75,00 | 5866,62 | 1909,53 | 1248,04 | 971,59 | 868,69 | 786,28 |
| 80,00 | 4746,31 | 1330,27 | 849,09 | 664,86 | 594,24 | 516,54 |
| 85,00 | 3210,17 | 686,76 | 439,02 | 340,37 | 302,11 | 251,54 |

HEADQUARTERS

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