

PHOTOMETRIC RESULTS

| | | | |
|-------------------|--------------------------------------|----------------------|------------------|
| Name: | REBA 50 /T EXT L0598+INT ASYM 840 HO | | |
| Number: | 90519+90500L002 | Diameter: | 0 mm |
| Report: | 23-01-2020 | Length: | 598 mm |
| Meas.-no.: | 01 | Width: | 70 mm |
| Lamp type: | LED 840 - 01 | Height: | 114 mm |
| Number: | 01 | Power: | 17,13 W |
| Lamp flux: | 2494,00 lm | Operator: | INDEL AGUE GROUP |
| Date: | 23-01-2020 16:56:04 | Output ratio: | 59,8 % |

Protocol

LiTG-class: A50
UTE-class: 0,60 D
IES-class: 59 - 87 - 97 - 100 - 60
TM5-class: BZ3/2.50/BZ4

Divergences in the plane through maximum intensity:

| | Horizontal | Vertical |
|-------------------------------|------------|----------|
| One half peak divergence | 94,1° | 52,9° |
| Half peak side angle (left) | -47,1° | -39,1° |
| Half peak side angle (right) | 47,1° | 13,9° |
| One tenth peak divergence | 143,3° | 132,3° |
| Tenth peak side angle (left) | -71,6° | -63,4° |
| Tenth peak side angle (right) | 71,6° | 68,9° |

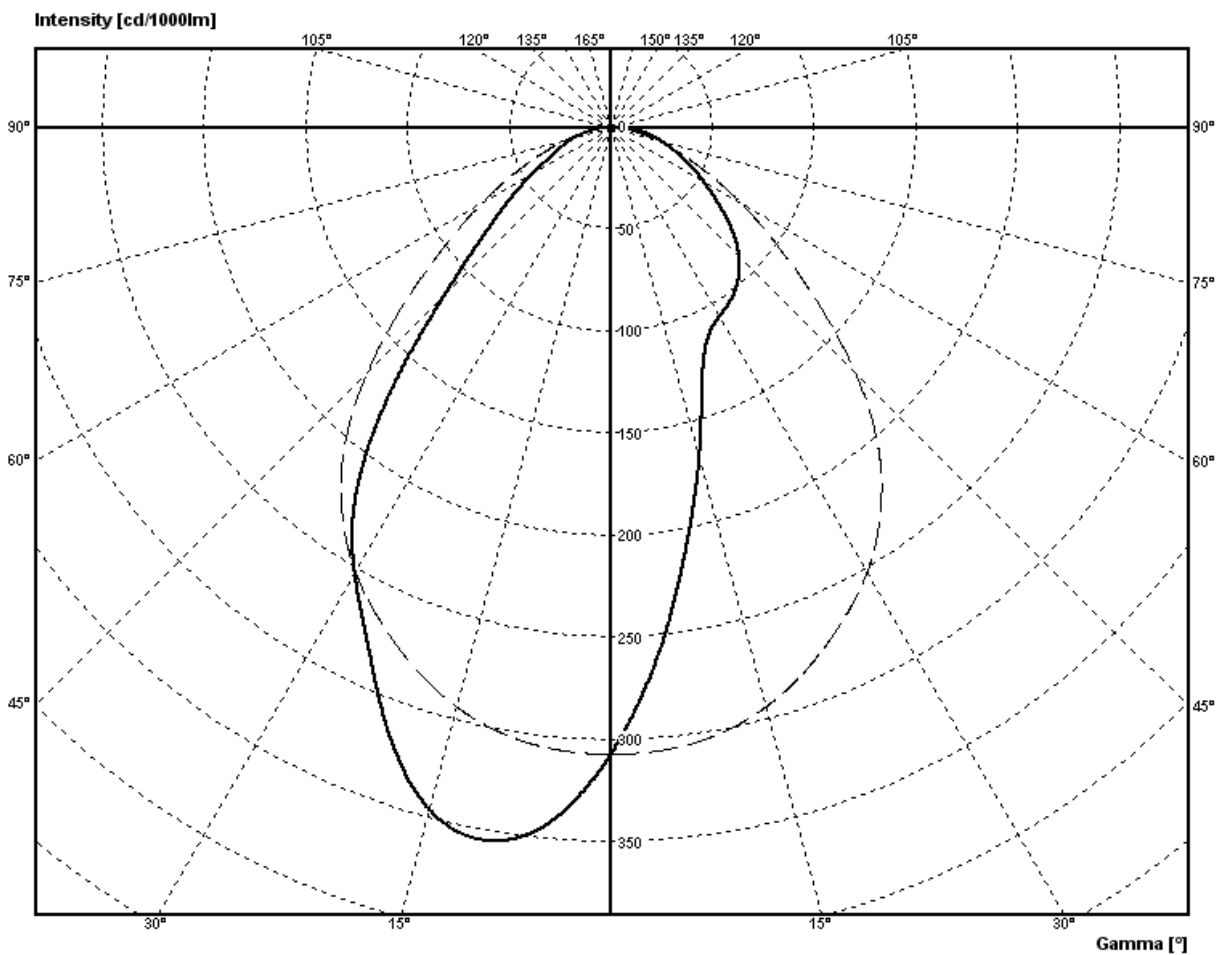
| | | | | | | | | | | |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| C-planes: | 0,0° | 15,0° | 30,0° | 45,0° | 60,0° | 75,0° | 90,0° | 105,0° | 120,0° | 135,0° |
| | 150,0° | 165,0° | 180,0° | 195,0° | 210,0° | 225,0° | 240,0° | 255,0° | 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 L0598+INT ASYM 840 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 | 15,5 | 17,0 | 15,9 | 17,3 | 17,6 | 19,3 | 20,8 | 19,7 | 21,1 | 21,4 |
| 2H | 3H | 16,0 | 17,3 | 16,4 | 17,7 | 18,0 | 20,0 | 21,4 | 20,4 | 21,7 | 22,0 |
| 2H | 4H | 16,2 | 17,4 | 16,6 | 17,8 | 18,2 | 20,2 | 21,5 | 20,6 | 21,9 | 22,2 |
| 2H | 6H | 16,3 | 17,5 | 16,7 | 17,9 | 18,3 | 20,4 | 21,6 | 20,8 | 21,9 | 22,3 |
| 2H | 8H | 16,3 | 17,4 | 16,7 | 17,8 | 18,2 | 20,4 | 21,5 | 20,8 | 21,9 | 22,3 |
| 2H | 12H | 16,3 | 17,4 | 16,7 | 17,8 | 18,2 | 20,4 | 21,5 | 20,8 | 21,9 | 22,3 |
| 4H | 2H | 16,0 | 17,2 | 16,4 | 17,6 | 18,0 | 19,3 | 20,6 | 19,7 | 21,0 | 21,3 |
| 4H | 3H | 16,6 | 17,7 | 17,0 | 18,0 | 18,5 | 20,1 | 21,2 | 20,5 | 21,6 | 22,0 |
| 4H | 4H | 16,9 | 17,9 | 17,4 | 18,3 | 18,7 | 20,4 | 21,4 | 20,9 | 21,8 | 22,2 |
| 4H | 6H | 17,1 | 17,9 | 17,5 | 18,4 | 18,8 | 20,6 | 21,5 | 21,1 | 21,9 | 22,3 |
| 4H | 8H | 17,1 | 17,9 | 17,6 | 18,4 | 18,8 | 20,7 | 21,5 | 21,1 | 21,9 | 22,4 |
| 4H | 12H | 17,2 | 17,9 | 17,7 | 18,3 | 18,8 | 20,7 | 21,4 | 21,2 | 21,9 | 22,4 |
| 8H | 4H | 17,0 | 17,8 | 17,5 | 18,3 | 18,7 | 20,4 | 21,2 | 20,9 | 21,6 | 22,1 |
| 8H | 6H | 17,3 | 17,9 | 17,8 | 18,4 | 18,9 | 20,6 | 21,3 | 21,1 | 21,7 | 22,2 |
| 8H | 8H | 17,4 | 18,0 | 17,9 | 18,5 | 19,0 | 20,7 | 21,3 | 21,3 | 21,8 | 22,3 |
| 8H | 12H | 17,5 | 17,9 | 18,0 | 18,5 | 19,0 | 20,8 | 21,2 | 21,3 | 21,8 | 22,3 |
| 12H | 4H | 17,0 | 17,8 | 17,5 | 18,2 | 18,7 | 20,4 | 21,1 | 20,9 | 21,5 | 22,0 |
| 12H | 6H | 17,3 | 17,9 | 17,9 | 18,4 | 18,9 | 20,6 | 21,2 | 21,1 | 21,7 | 22,2 |
| 12H | 8H | 17,4 | 17,9 | 18,0 | 18,4 | 18,9 | 20,7 | 21,2 | 21,2 | 21,7 | 22,2 |

UGR values are corrected for lamp flux of 2494 lm by 3,2

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Luminance [cd/m²] REBA 50 /T EXT L0598+INT ASYM 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 | 3487,92 | 3554,77 | 3754,35 | 4310,73 | 5572,62 | 9335,84 | 19168,4 | 14539,4 | 11236,8 |
| 50,00 | 2945,89 | 2897,61 | 3073,61 | 3540,42 | 4629,64 | 7376,55 | 15849,0 | 11380,0 | 8608,49 |
| 55,00 | 2373,90 | 2314,43 | 2561,25 | 2878,79 | 3784,63 | 5818,70 | 12782,2 | 8581,45 | 6190,05 |
| 60,00 | 1912,86 | 1836,66 | 2108,59 | 2333,12 | 3066,83 | 4567,44 | 10368,4 | 6283,13 | 4394,14 |
| 65,00 | 1537,38 | 1459,71 | 1662,79 | 1842,11 | 2419,40 | 3474,00 | 8173,63 | 4459,71 | 3011,74 |
| 70,00 | 1206,97 | 1172,70 | 1306,53 | 1428,04 | 1838,01 | 2616,92 | 6294,02 | 3069,85 | 2042,23 |
| 75,00 | 944,08 | 898,15 | 985,27 | 1089,88 | 1365,09 | 1928,93 | 4725,59 | 2101,87 | 1382,59 |
| 80,00 | 692,98 | 607,81 | 680,55 | 746,49 | 925,85 | 1308,90 | 3299,51 | 1351,59 | 889,55 |
| 85,00 | 406,50 | 305,31 | 355,31 | 381,91 | 475,19 | 662,87 | 1733,66 | 693,70 | 465,69 |

| G/C [cd/ | 135,00 | 150,00 | 165,00 | 180,00 | 195,00 | 210,00 | 225,00 | 240,00 | 255,00 |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 45,00 | 8739,65 | 7012,26 | 6061,26 | 4516,96 | 6061,26 | 7012,26 | 8739,65 | 11236,8 | 14539,4 |
| 50,00 | 6258,59 | 4797,24 | 4043,04 | 3082,18 | 4043,04 | 4797,24 | 6258,59 | 8608,49 | 11380,0 |
| 55,00 | 4398,52 | 3334,35 | 2818,28 | 2220,42 | 2818,28 | 3334,35 | 4398,52 | 6190,05 | 8581,45 |
| 60,00 | 3024,42 | 2329,94 | 2011,06 | 1590,69 | 2011,06 | 2329,94 | 3024,42 | 4394,14 | 6283,13 |
| 65,00 | 2021,67 | 1616,44 | 1427,27 | 1138,06 | 1427,27 | 1616,44 | 2021,67 | 3011,74 | 4459,71 |
| 70,00 | 1401,22 | 1196,20 | 1064,62 | 887,77 | 1064,62 | 1196,20 | 1401,22 | 2042,23 | 3069,85 |
| 75,00 | 1021,77 | 885,57 | 821,95 | 672,91 | 821,95 | 885,57 | 1021,77 | 1382,59 | 2101,87 |
| 80,00 | 683,71 | 596,97 | 558,08 | 417,82 | 558,08 | 596,97 | 683,71 | 889,55 | 1351,59 |
| 85,00 | 367,49 | 336,93 | 316,62 | 208,46 | 316,62 | 336,93 | 367,49 | 465,69 | 693,70 |

| G/C [cd/ | 270,00 | 285,00 | 300,00 | 315,00 | 330,00 | 345,00 |
|----------|---------|---------|---------|---------|---------|---------|
| 45,00 | 19168,4 | 9335,84 | 5572,62 | 4310,73 | 3754,35 | 3554,77 |
| 50,00 | 15849,0 | 7376,55 | 4629,64 | 3540,42 | 3073,61 | 2897,61 |
| 55,00 | 12782,2 | 5818,70 | 3784,63 | 2878,79 | 2561,25 | 2314,43 |
| 60,00 | 10368,4 | 4567,44 | 3066,83 | 2333,12 | 2108,59 | 1836,66 |
| 65,00 | 8173,63 | 3474,00 | 2419,40 | 1842,11 | 1662,79 | 1459,71 |
| 70,00 | 6294,02 | 2616,92 | 1838,01 | 1428,04 | 1306,53 | 1172,70 |
| 75,00 | 4725,59 | 1928,93 | 1365,09 | 1089,88 | 985,27 | 898,15 |
| 80,00 | 3299,51 | 1308,90 | 925,85 | 746,49 | 680,55 | 607,81 |
| 85,00 | 1733,66 | 662,87 | 475,19 | 381,91 | 355,31 | 305,31 |

HEADQUARTERS

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