

PHOTOMETRIC RESULTS

| | | | |
|------------|--------------------------------------------|---------------|------------------|
| Name: | REBA 50 /E EXT L1150+INT SYM BGLARE 830 HO | | |
| Number: | 90520+90498L004 | Diameter: | 0 mm |
| Report: | 24-01-2020 | Length: | 1150 mm |
| Meas.-no.: | 01 | Width: | 62 mm |
| Lamp type: | LED 830 - 01 | Height: | 72 mm |
| Number: | 01 | Power: | 28,70 W |
| Lamp flux: | 4320,00 lm | Operator: | INDEL AGUE GROUP |
| Date: | 24-01-2020 14:42:44 | Output ratio: | 62,2 % |

Protocol

LiTG-class: A50
UTE-class: 0,62 C
IES-class: 63 - 88 - 97 - 100 - 62
TM5-class: BZ2/1.50/BZ3/2.00/BZ2/2.50/BZ3

Divergences in the plane through maximum intensity:

| | Horizontal | Vertical |
|-------------------------------|------------|----------|
| One half peak divergence | 80,9° | 80,3° |
| Half peak side angle (left) | -40,5° | -40,1° |
| Half peak side angle (right) | 40,5° | 40,1° |
| One tenth peak divergence | 133,0° | 138,4° |
| Tenth peak side angle (left) | -66,5° | -69,2° |
| Tenth peak side angle (right) | 66,5° | 69,2° |

| | | | | | | | | | | |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 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 L1150+INT SYM BGLARE 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 | 16,8 | 18,2 | 17,1 | 18,5 | 18,9 | 18,4 | 19,9 | 18,8 | 20,2 | 20,5 |
| 2H | 3H | 17,3 | 18,6 | 17,6 | 18,9 | 19,2 | 19,0 | 20,3 | 19,4 | 20,6 | 21,0 |
| 2H | 4H | 17,4 | 18,7 | 17,8 | 19,0 | 19,4 | 19,2 | 20,5 | 19,6 | 20,8 | 21,2 |
| 2H | 6H | 17,6 | 18,7 | 18,0 | 19,0 | 19,4 | 19,4 | 20,6 | 19,8 | 20,9 | 21,3 |
| 2H | 8H | 17,6 | 18,6 | 18,0 | 19,0 | 19,4 | 19,5 | 20,5 | 19,9 | 20,9 | 21,3 |
| 2H | 12H | 17,5 | 18,6 | 18,0 | 19,0 | 19,4 | 19,5 | 20,5 | 19,9 | 20,9 | 21,3 |
| 4H | 2H | 17,1 | 18,3 | 17,5 | 18,7 | 19,0 | 18,5 | 19,7 | 18,9 | 20,1 | 20,5 |
| 4H | 3H | 17,7 | 18,7 | 18,1 | 19,1 | 19,5 | 19,2 | 20,2 | 19,6 | 20,6 | 21,0 |
| 4H | 4H | 18,0 | 18,9 | 18,4 | 19,3 | 19,7 | 19,6 | 20,5 | 20,0 | 20,9 | 21,3 |
| 4H | 6H | 18,1 | 18,9 | 18,6 | 19,4 | 19,8 | 19,8 | 20,6 | 20,2 | 21,0 | 21,4 |
| 4H | 8H | 18,2 | 18,9 | 18,6 | 19,4 | 19,8 | 19,8 | 20,6 | 20,3 | 21,0 | 21,5 |
| 4H | 12H | 18,2 | 18,9 | 18,7 | 19,3 | 19,8 | 19,9 | 20,6 | 20,4 | 21,0 | 21,5 |
| 8H | 4H | 18,0 | 18,8 | 18,5 | 19,2 | 19,7 | 19,5 | 20,3 | 20,0 | 20,7 | 21,2 |
| 8H | 6H | 18,2 | 18,9 | 18,7 | 19,3 | 19,8 | 19,8 | 20,4 | 20,3 | 20,9 | 21,4 |
| 8H | 8H | 18,4 | 18,9 | 18,9 | 19,4 | 19,9 | 19,9 | 20,5 | 20,4 | 21,0 | 21,5 |
| 8H | 12H | 18,4 | 18,9 | 18,9 | 19,4 | 19,9 | 20,0 | 20,4 | 20,5 | 21,0 | 21,5 |
| 12H | 4H | 18,0 | 18,7 | 18,5 | 19,2 | 19,7 | 19,5 | 20,2 | 20,0 | 20,6 | 21,2 |
| 12H | 6H | 18,3 | 18,8 | 18,8 | 19,3 | 19,8 | 19,8 | 20,3 | 20,3 | 20,9 | 21,3 |
| 12H | 8H | 18,4 | 18,8 | 18,9 | 19,4 | 19,9 | 19,9 | 20,4 | 20,4 | 20,9 | 21,4 |

UGR values are corrected for lamp flux of 4320 lm by 5,1

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Luminance [cd/m²] REBA 50 /E EXT L1150+INT SYM BGLARE 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 | 6212,87 | 6312,42 | 6881,48 | 7779,47 | 8989,68 | 11006,1 | 15070,5 | 11006,1 | 8989,68 |
| 50,00 | 4696,89 | 4765,93 | 5166,99 | 5892,55 | 6877,71 | 8514,71 | 12166,1 | 8514,71 | 6877,71 |
| 55,00 | 3509,75 | 3548,74 | 3896,32 | 4375,14 | 5147,45 | 6452,16 | 9781,85 | 6452,16 | 5147,45 |
| 60,00 | 2628,11 | 2623,21 | 2919,24 | 3231,20 | 3820,82 | 4860,94 | 7955,33 | 4860,94 | 3820,82 |
| 65,00 | 1951,96 | 1944,94 | 2143,91 | 2366,48 | 2823,80 | 3685,98 | 6467,08 | 3685,98 | 2823,80 |
| 70,00 | 1470,28 | 1485,77 | 1612,51 | 1761,75 | 2107,14 | 2795,81 | 5318,34 | 2795,81 | 2107,14 |
| 75,00 | 1090,28 | 1115,10 | 1189,98 | 1292,05 | 1546,69 | 2144,17 | 4502,08 | 2144,17 | 1546,69 |
| 80,00 | 747,83 | 741,17 | 812,85 | 862,30 | 1062,60 | 1527,93 | 3698,34 | 1527,93 | 1062,60 |
| 85,00 | 401,68 | 404,11 | 449,83 | 467,58 | 575,63 | 833,91 | 2611,18 | 833,91 | 575,63 |

| G/C [cd/ | 135,00 | 150,00 | 165,00 | 180,00 | 195,00 | 210,00 | 225,00 | 240,00 | 255,00 |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 45,00 | 7779,47 | 6881,48 | 6312,42 | 6212,87 | 6312,42 | 6881,48 | 7779,47 | 8989,68 | 11006,1 |
| 50,00 | 5892,55 | 5166,99 | 4765,93 | 4696,89 | 4765,93 | 5166,99 | 5892,55 | 6877,71 | 8514,71 |
| 55,00 | 4375,14 | 3896,32 | 3548,74 | 3509,75 | 3548,74 | 3896,32 | 4375,14 | 5147,45 | 6452,16 |
| 60,00 | 3231,20 | 2919,24 | 2623,21 | 2628,11 | 2623,21 | 2919,24 | 3231,20 | 3820,82 | 4860,94 |
| 65,00 | 2366,48 | 2143,91 | 1944,94 | 1951,96 | 1944,94 | 2143,91 | 2366,48 | 2823,80 | 3685,98 |
| 70,00 | 1761,75 | 1612,51 | 1485,77 | 1470,28 | 1485,77 | 1612,51 | 1761,75 | 2107,14 | 2795,81 |
| 75,00 | 1292,05 | 1189,98 | 1115,10 | 1090,28 | 1115,10 | 1189,98 | 1292,05 | 1546,69 | 2144,17 |
| 80,00 | 862,30 | 812,85 | 741,17 | 747,83 | 741,17 | 812,85 | 862,30 | 1062,60 | 1527,93 |
| 85,00 | 467,58 | 449,83 | 404,11 | 401,68 | 404,11 | 449,83 | 467,58 | 575,63 | 833,91 |

| G/C [cd/ | 270,00 | 285,00 | 300,00 | 315,00 | 330,00 | 345,00 |
|----------|---------|---------|---------|---------|---------|---------|
| 45,00 | 15070,5 | 11006,1 | 8989,68 | 7779,47 | 6881,48 | 6312,42 |
| 50,00 | 12166,1 | 8514,71 | 6877,71 | 5892,55 | 5166,99 | 4765,93 |
| 55,00 | 9781,85 | 6452,16 | 5147,45 | 4375,14 | 3896,32 | 3548,74 |
| 60,00 | 7955,33 | 4860,94 | 3820,82 | 3231,20 | 2919,24 | 2623,21 |
| 65,00 | 6467,08 | 3685,98 | 2823,80 | 2366,48 | 2143,91 | 1944,94 |
| 70,00 | 5318,34 | 2795,81 | 2107,14 | 1761,75 | 1612,51 | 1485,77 |
| 75,00 | 4502,08 | 2144,17 | 1546,69 | 1292,05 | 1189,98 | 1115,10 |
| 80,00 | 3698,34 | 1527,93 | 1062,60 | 862,30 | 812,85 | 741,17 |
| 85,00 | 2611,18 | 833,91 | 575,63 | 467,58 | 449,83 | 404,11 |

HEADQUARTERS

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