

PHOTOMETRIC RESULTS

| | | | |
|-------------------|---|----------------------|------------------|
| Name: | REBA 50 /T EXT LINE L1140 SRT/END+INT SYM BGLARE K3 830 HO | | |
| Number: | 90507-83+90498L004 | Diameter: | 0 mm |
| Report: | 24-01-2020 | Length: | 1140 mm |
| Meas.-no.: | 01 | Width: | 70 mm |
| Lamp type: | LED 830 - 01 | Height: | 114 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 /T EXT LINE L1140 SRT/END+INT SYM BGLARE 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 | 15,7 | 17,2 | 16,1 | 17,5 | 17,8 | 17,8 | 19,2 | 18,1 | 19,5 | 19,8 |
| 2H | 3H | 16,1 | 17,4 | 16,5 | 17,8 | 18,1 | 18,3 | 19,6 | 18,7 | 20,0 | 20,3 |
| 2H | 4H | 16,3 | 17,5 | 16,7 | 17,9 | 18,2 | 18,6 | 19,8 | 19,0 | 20,1 | 20,5 |
| 2H | 6H | 16,4 | 17,5 | 16,8 | 17,9 | 18,3 | 18,7 | 19,9 | 19,2 | 20,2 | 20,6 |
| 2H | 8H | 16,4 | 17,5 | 16,8 | 17,9 | 18,3 | 18,8 | 19,8 | 19,2 | 20,2 | 20,6 |
| 2H | 12H | 16,4 | 17,4 | 16,8 | 17,8 | 18,2 | 18,8 | 19,8 | 19,2 | 20,2 | 20,6 |
| 4H | 2H | 16,0 | 17,2 | 16,4 | 17,6 | 17,9 | 17,8 | 19,1 | 18,2 | 19,4 | 19,8 |
| 4H | 3H | 16,6 | 17,6 | 17,0 | 18,0 | 18,4 | 18,5 | 19,5 | 18,9 | 19,9 | 20,3 |
| 4H | 4H | 16,8 | 17,7 | 17,3 | 18,2 | 18,6 | 18,8 | 19,7 | 19,2 | 20,1 | 20,6 |
| 4H | 6H | 17,0 | 17,8 | 17,4 | 18,2 | 18,7 | 19,0 | 19,8 | 19,5 | 20,2 | 20,7 |
| 4H | 8H | 17,0 | 17,7 | 17,5 | 18,2 | 18,7 | 19,1 | 19,8 | 19,5 | 20,3 | 20,7 |
| 4H | 12H | 17,0 | 17,7 | 17,5 | 18,2 | 18,7 | 19,1 | 19,8 | 19,6 | 20,2 | 20,8 |
| 8H | 4H | 16,9 | 17,6 | 17,3 | 18,1 | 18,5 | 18,8 | 19,5 | 19,2 | 20,0 | 20,4 |
| 8H | 6H | 17,1 | 17,7 | 17,5 | 18,2 | 18,7 | 19,0 | 19,6 | 19,5 | 20,1 | 20,6 |
| 8H | 8H | 17,2 | 17,7 | 17,7 | 18,2 | 18,7 | 19,1 | 19,7 | 19,6 | 20,2 | 20,7 |
| 8H | 12H | 17,2 | 17,7 | 17,7 | 18,2 | 18,7 | 19,2 | 19,6 | 19,7 | 20,1 | 20,7 |
| 12H | 4H | 16,9 | 17,6 | 17,4 | 18,0 | 18,5 | 18,8 | 19,4 | 19,2 | 19,9 | 20,4 |
| 12H | 6H | 17,1 | 17,6 | 17,6 | 18,2 | 18,6 | 19,0 | 19,6 | 19,5 | 20,1 | 20,6 |
| 12H | 8H | 17,2 | 17,6 | 17,7 | 18,2 | 18,7 | 19,1 | 19,6 | 19,6 | 20,1 | 20,6 |

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

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Luminance [cd/m²] REBA 50 /T EXT LINE L1140 SRT/END+INT SYM BGLARE K3 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 | 4581,99 | 4666,78 | 5139,21 | 5928,18 | 7100,91 | 9282,20 | 14558,4 | 9282,20 | 7100,91 |
| 50,00 | 3404,15 | 3462,12 | 3789,47 | 4405,58 | 5325,33 | 7045,10 | 11682,0 | 7045,10 | 5325,33 |
| 55,00 | 2501,54 | 2534,70 | 2807,76 | 3210,34 | 3906,01 | 5231,11 | 9325,18 | 5231,11 | 3906,01 |
| 60,00 | 1842,81 | 1842,92 | 2067,54 | 2326,94 | 2839,90 | 3855,21 | 7516,73 | 3855,21 | 2839,90 |
| 65,00 | 1346,70 | 1344,15 | 1492,34 | 1672,11 | 2053,95 | 2853,12 | 6040,81 | 2853,12 | 2053,95 |
| 70,00 | 997,96 | 1009,95 | 1102,86 | 1220,65 | 1497,91 | 2105,51 | 4890,73 | 2105,51 | 1497,91 |
| 75,00 | 727,79 | 745,22 | 799,22 | 876,99 | 1072,58 | 1564,30 | 4046,05 | 1564,30 | 1072,58 |
| 80,00 | 490,61 | 486,65 | 535,63 | 572,61 | 717,03 | 1073,38 | 3200,23 | 1073,38 | 717,03 |
| 85,00 | 258,74 | 260,42 | 290,45 | 303,20 | 376,67 | 559,18 | 2094,26 | 559,18 | 376,67 |

| G/C [cd/ | 135,00 | 150,00 | 165,00 | 180,00 | 195,00 | 210,00 | 225,00 | 240,00 | 255,00 |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 45,00 | 5928,18 | 5139,21 | 4666,78 | 4581,99 | 4666,78 | 5139,21 | 5928,18 | 7100,91 | 9282,20 |
| 50,00 | 4405,58 | 3789,47 | 3462,12 | 3404,15 | 3462,12 | 3789,47 | 4405,58 | 5325,33 | 7045,10 |
| 55,00 | 3210,34 | 2807,76 | 2534,70 | 2501,54 | 2534,70 | 2807,76 | 3210,34 | 3906,01 | 5231,11 |
| 60,00 | 2326,94 | 2067,54 | 1842,92 | 1842,81 | 1842,92 | 2067,54 | 2326,94 | 2839,90 | 3855,21 |
| 65,00 | 1672,11 | 1492,34 | 1344,15 | 1346,70 | 1344,15 | 1492,34 | 1672,11 | 2053,95 | 2853,12 |
| 70,00 | 1220,65 | 1102,86 | 1009,95 | 997,96 | 1009,95 | 1102,86 | 1220,65 | 1497,91 | 2105,51 |
| 75,00 | 876,99 | 799,22 | 745,22 | 727,79 | 745,22 | 799,22 | 876,99 | 1072,58 | 1564,30 |
| 80,00 | 572,61 | 535,63 | 486,65 | 490,61 | 486,65 | 535,63 | 572,61 | 717,03 | 1073,38 |
| 85,00 | 303,20 | 290,45 | 260,42 | 258,74 | 260,42 | 290,45 | 303,20 | 376,67 | 559,18 |

| G/C [cd/ | 270,00 | 285,00 | 300,00 | 315,00 | 330,00 | 345,00 |
|----------|---------|---------|---------|---------|---------|---------|
| 45,00 | 14558,4 | 9282,20 | 7100,91 | 5928,18 | 5139,21 | 4666,78 |
| 50,00 | 11682,0 | 7045,10 | 5325,33 | 4405,58 | 3789,47 | 3462,12 |
| 55,00 | 9325,18 | 5231,11 | 3906,01 | 3210,34 | 2807,76 | 2534,70 |
| 60,00 | 7516,73 | 3855,21 | 2839,90 | 2326,94 | 2067,54 | 1842,92 |
| 65,00 | 6040,81 | 2853,12 | 2053,95 | 1672,11 | 1492,34 | 1344,15 |
| 70,00 | 4890,73 | 2105,51 | 1497,91 | 1220,65 | 1102,86 | 1009,95 |
| 75,00 | 4046,05 | 1564,30 | 1072,58 | 876,99 | 799,22 | 745,22 |
| 80,00 | 3200,23 | 1073,38 | 717,03 | 572,61 | 535,63 | 486,65 |
| 85,00 | 2094,26 | 559,18 | 376,67 | 303,20 | 290,45 | 260,42 |

HEADQUARTERS

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