

PHOTOMETRIC RESULTS

| | | | |
|-------------------|------------------------------------------------|----------------------|------------------|
| Name: | REBA 50 EXT L0858+INT SYM BGLARE 830 HO | | |
| Number: | 90517+90498L003 | Diameter: | 0 mm |
| Report: | 24-01-2020 | Length: | 858 mm |
| Meas.-no.: | 01 | Width: | 50 mm |
| Lamp type: | LED 830 - 01 | Height: | 72 mm |
| Number: | 01 | Power: | 21,79 W |
| Lamp flux: | 3240,00 lm | Operator: | INDEL AGUE GROUP |
| Date: | 24-01-2020 11:38:26 | Output ratio: | 64,5 % |

Protocol

LiTG-class: A50
UTE-class: 0,65 C
IES-class: 62 - 88 - 97 - 100 - 65
TM5-class: BZ2/1.00/BZ3

Divergences in the plane through maximum intensity:

| | Horizontal | Vertical |
|-------------------------------|------------|----------|
| One half peak divergence | 80,2° | 80,5° |
| Half peak side angle (left) | -40,1° | -40,3° |
| Half peak side angle (right) | 40,1° | 40,3° |
| One tenth peak divergence | 135,5° | 141,0° |
| Tenth peak side angle (left) | -67,7° | -70,5° |
| Tenth peak side angle (right) | 67,7° | 70,5° |

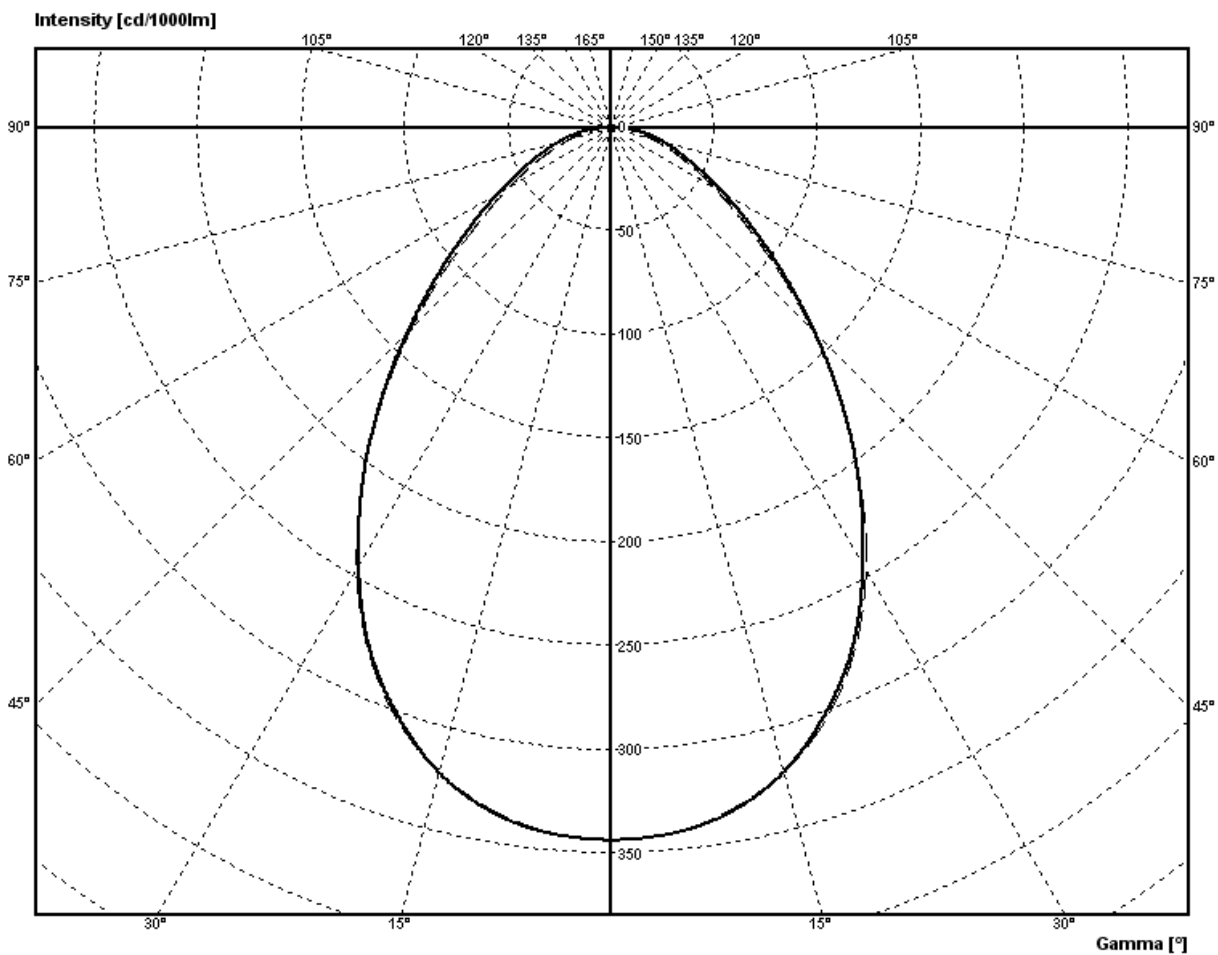
| | | | | | | | | | | |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| C-planes: | 0,0° | 15,0° | 30,0° | 45,0° | 60,0° | 75,0° | 90,0° | 105,0° | 120,0° | 135,0° |
| | 150,0° | 165,0° | 180,0° | 195,0° | 210,0° | 225,0° | 240,0° | 255,0° | 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 EXT L0858+INT SYM BGLARE 830 HO / Direct in 15° C / 5° 



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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 | 16,9 | 18,4 | 17,3 | 18,7 | 19,0 | 18,5 | 20,0 | 18,9 | 20,3 | 20,6 |
| 2H | 3H | 17,5 | 18,8 | 17,8 | 19,1 | 19,5 | 19,2 | 20,5 | 19,6 | 20,8 | 21,2 |
| 2H | 4H | 17,7 | 18,9 | 18,1 | 19,3 | 19,6 | 19,4 | 20,7 | 19,8 | 21,0 | 21,4 |
| 2H | 6H | 17,8 | 19,0 | 18,2 | 19,3 | 19,7 | 19,6 | 20,8 | 20,1 | 21,1 | 21,5 |
| 2H | 8H | 17,8 | 18,9 | 18,2 | 19,3 | 19,7 | 19,7 | 20,8 | 20,1 | 21,1 | 21,5 |
| 2H | 12H | 17,8 | 18,9 | 18,2 | 19,3 | 19,7 | 19,7 | 20,7 | 20,1 | 21,1 | 21,5 |
| 4H | 2H | 17,3 | 18,5 | 17,7 | 18,8 | 19,2 | 18,6 | 19,9 | 19,0 | 20,2 | 20,6 |
| 4H | 3H | 17,9 | 19,0 | 18,3 | 19,4 | 19,8 | 19,4 | 20,4 | 19,8 | 20,8 | 21,2 |
| 4H | 4H | 18,3 | 19,2 | 18,7 | 19,6 | 20,0 | 19,8 | 20,7 | 20,2 | 21,1 | 21,5 |
| 4H | 6H | 18,4 | 19,3 | 18,9 | 19,7 | 20,1 | 20,0 | 20,8 | 20,5 | 21,3 | 21,7 |
| 4H | 8H | 18,5 | 19,3 | 19,0 | 19,7 | 20,2 | 20,1 | 20,8 | 20,6 | 21,3 | 21,7 |
| 4H | 12H | 18,5 | 19,2 | 19,0 | 19,7 | 20,2 | 20,1 | 20,8 | 20,6 | 21,3 | 21,8 |
| 8H | 4H | 18,3 | 19,1 | 18,8 | 19,5 | 20,0 | 19,8 | 20,5 | 20,2 | 21,0 | 21,4 |
| 8H | 6H | 18,6 | 19,2 | 19,1 | 19,7 | 20,2 | 20,0 | 20,7 | 20,5 | 21,1 | 21,6 |
| 8H | 8H | 18,7 | 19,3 | 19,2 | 19,8 | 20,3 | 20,2 | 20,7 | 20,7 | 21,3 | 21,7 |
| 8H | 12H | 18,8 | 19,2 | 19,3 | 19,8 | 20,3 | 20,3 | 20,7 | 20,8 | 21,2 | 21,7 |
| 12H | 4H | 18,3 | 19,0 | 18,8 | 19,5 | 20,0 | 19,8 | 20,4 | 20,2 | 20,9 | 21,4 |
| 12H | 6H | 18,6 | 19,2 | 19,2 | 19,7 | 20,2 | 20,1 | 20,6 | 20,6 | 21,1 | 21,6 |
| 12H | 8H | 18,8 | 19,2 | 19,3 | 19,7 | 20,2 | 20,2 | 20,7 | 20,7 | 21,2 | 21,7 |

UGR values are corrected for lamp flux of 3240 lm by 4,1

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Luminance [cd/m²] REBA 50 EXT L0858+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 | 6401,56 | 6528,16 | 7059,94 | 7940,83 | 9099,06 | 11004,3 | 14833,4 | 11004,3 | 9099,06 |
| 50,00 | 4894,90 | 4958,06 | 5341,03 | 6078,74 | 7057,18 | 8647,29 | 12140,9 | 8647,29 | 7057,18 |
| 55,00 | 3722,70 | 3735,59 | 4045,81 | 4568,21 | 5366,00 | 6684,90 | 9889,26 | 6684,90 | 5366,00 |
| 60,00 | 2817,50 | 2789,65 | 3055,11 | 3402,65 | 4054,83 | 5150,57 | 8234,38 | 5150,57 | 4054,83 |
| 65,00 | 2129,57 | 2111,46 | 2300,12 | 2507,37 | 3048,68 | 3975,40 | 6852,96 | 3975,40 | 3048,68 |
| 70,00 | 1628,28 | 1632,14 | 1742,28 | 1874,61 | 2286,33 | 3043,14 | 5711,65 | 3043,14 | 2286,33 |
| 75,00 | 1220,15 | 1237,70 | 1319,58 | 1403,10 | 1684,57 | 2317,99 | 4745,44 | 2317,99 | 1684,57 |
| 80,00 | 850,18 | 864,12 | 924,55 | 972,18 | 1177,33 | 1627,24 | 3797,51 | 1627,24 | 1177,33 |
| 85,00 | 464,42 | 476,70 | 517,40 | 530,58 | 643,79 | 901,35 | 2479,37 | 901,35 | 643,79 |

| G/C [cd/ | 135,00 | 150,00 | 165,00 | 180,00 | 195,00 | 210,00 | 225,00 | 240,00 | 255,00 |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 45,00 | 7940,83 | 7059,94 | 6528,16 | 6401,56 | 6528,16 | 7059,94 | 7940,83 | 9099,06 | 11004,3 |
| 50,00 | 6078,74 | 5341,03 | 4958,06 | 4894,90 | 4958,06 | 5341,03 | 6078,74 | 7057,18 | 8647,29 |
| 55,00 | 4568,21 | 4045,81 | 3735,59 | 3722,70 | 3735,59 | 4045,81 | 4568,21 | 5366,00 | 6684,90 |
| 60,00 | 3402,65 | 3055,11 | 2789,65 | 2817,50 | 2789,65 | 3055,11 | 3402,65 | 4054,83 | 5150,57 |
| 65,00 | 2507,37 | 2300,12 | 2111,46 | 2129,57 | 2111,46 | 2300,12 | 2507,37 | 3048,68 | 3975,40 |
| 70,00 | 1874,61 | 1742,28 | 1632,14 | 1628,28 | 1632,14 | 1742,28 | 1874,61 | 2286,33 | 3043,14 |
| 75,00 | 1403,10 | 1319,58 | 1237,70 | 1220,15 | 1237,70 | 1319,58 | 1403,10 | 1684,57 | 2317,99 |
| 80,00 | 972,18 | 924,55 | 864,12 | 850,18 | 864,12 | 924,55 | 972,18 | 1177,33 | 1627,24 |
| 85,00 | 530,58 | 517,40 | 476,70 | 464,42 | 476,70 | 517,40 | 530,58 | 643,79 | 901,35 |

| G/C [cd/ | 270,00 | 285,00 | 300,00 | 315,00 | 330,00 | 345,00 |
|----------|---------|---------|---------|---------|---------|---------|
| 45,00 | 14833,4 | 11004,3 | 9099,06 | 7940,83 | 7059,94 | 6528,16 |
| 50,00 | 12140,9 | 8647,29 | 7057,18 | 6078,74 | 5341,03 | 4958,06 |
| 55,00 | 9889,26 | 6684,90 | 5366,00 | 4568,21 | 4045,81 | 3735,59 |
| 60,00 | 8234,38 | 5150,57 | 4054,83 | 3402,65 | 3055,11 | 2789,65 |
| 65,00 | 6852,96 | 3975,40 | 3048,68 | 2507,37 | 2300,12 | 2111,46 |
| 70,00 | 5711,65 | 3043,14 | 2286,33 | 1874,61 | 1742,28 | 1632,14 |
| 75,00 | 4745,44 | 2317,99 | 1684,57 | 1403,10 | 1319,58 | 1237,70 |
| 80,00 | 3797,51 | 1627,24 | 1177,33 | 972,18 | 924,55 | 864,12 |
| 85,00 | 2479,37 | 901,35 | 643,79 | 530,58 | 517,40 | 476,70 |

HEADQUARTERS

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