

PHOTOMETRIC RESULTS

| | | | |
|-------------------|--|----------------------|------------------|
| Name: | REBA 65 D/I EXT L1698+INT SYM BGLARE 830 HO | | |
| Number: | 90537+90532L006 | Diameter: | 0 mm |
| Report: | 26-02-2020 | Length: | 1698 mm |
| Meas.-no.: | 01 | Width: | 65 mm |
| Lamp type: | LED 830 - 01 | Height: | 97 mm |
| Number: | 01 | Power: | 80,75 W |
| Lamp flux: | 11880,00 lm | Operator: | INDEL AGUE GROUP |
| Date: | 26-02-2020 15:43:32 | Output ratio: | 61,9 % |

Protocol

LiTG-class: B53
UTE-class: 0,36 C + 0,26 T
IES-class: 63 - 88 - 97 - 58 - 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° | 76,5° |
| Half peak side angle (left) | -40,4° | -38,3° |
| Half peak side angle (right) | 40,4° | 38,3° |
| One tenth peak divergence | 133,6° | 136,5° |
| Tenth peak side angle (left) | -66,8° | -68,3° |
| Tenth peak side angle (right) | 66,8° | 68,3° |

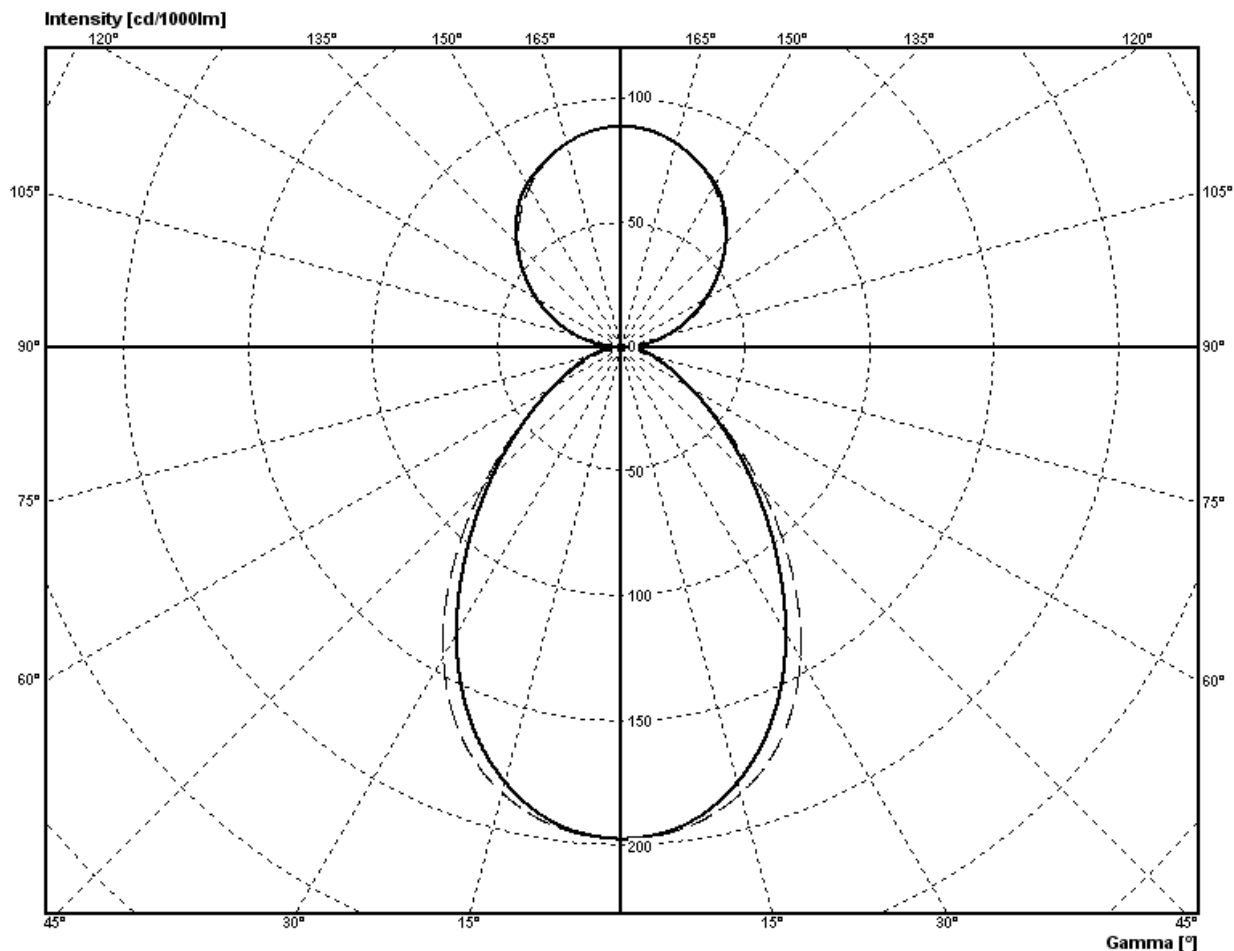
| | | | | | | | | | | |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| C-planes: | 0,0° | 15,0° | 30,0° | 45,0° | 60,0° | 75,0° | 90,0° | 105,0° | 120,0° | 135,0° |
| | 150,0° | 165,0° | 180,0° | 195,0° | 210,0° | 225,0° | 240,0° | 255,0° | 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° | 95,0° |
| | 100,0° | 105,0° | 110,0° | 115,0° | 120,0° | 125,0° | 130,0° | 135,0° | 140,0° | 145,0° |
| | 150,0° | 155,0° | 160,0° | 165,0° | 170,0° | 175,0° | 180,0° | | | |

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Polar diagram REBA 65 D/I EXT L1698+INT SYM BGLARE 830 HO / Total 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 | 12,4 | 13,3 | 13,3 | 14,2 | 15,4 | 14,5 | 15,3 | 15,4 | 16,2 | 17,4 |
| 2H | 3H | 12,9 | 13,6 | 13,8 | 14,6 | 15,7 | 15,1 | 15,8 | 16,0 | 16,8 | 17,9 |
| 2H | 4H | 13,0 | 13,8 | 14,0 | 14,7 | 15,9 | 15,3 | 16,0 | 16,2 | 17,0 | 18,1 |
| 2H | 6H | 13,2 | 13,8 | 14,1 | 14,8 | 16,0 | 15,5 | 16,1 | 16,4 | 17,1 | 18,3 |
| 2H | 8H | 13,1 | 13,8 | 14,1 | 14,7 | 15,9 | 15,5 | 16,1 | 16,4 | 17,1 | 18,3 |
| 2H | 12H | 13,1 | 13,8 | 14,1 | 14,7 | 15,9 | 15,5 | 16,1 | 16,4 | 17,1 | 18,3 |
| 4H | 2H | 12,7 | 13,4 | 13,6 | 14,4 | 15,6 | 14,5 | 15,2 | 15,4 | 16,2 | 17,4 |
| 4H | 3H | 13,3 | 13,9 | 14,2 | 14,8 | 16,1 | 15,2 | 15,8 | 16,1 | 16,7 | 18,0 |
| 4H | 4H | 13,6 | 14,1 | 14,5 | 15,1 | 16,3 | 15,5 | 16,1 | 16,5 | 17,0 | 18,2 |
| 4H | 6H | 13,7 | 14,2 | 14,7 | 15,2 | 16,4 | 15,7 | 16,2 | 16,7 | 17,2 | 18,4 |
| 4H | 8H | 13,7 | 14,2 | 14,7 | 15,2 | 16,4 | 15,8 | 16,2 | 16,8 | 17,2 | 18,4 |
| 4H | 12H | 13,8 | 14,2 | 14,8 | 15,2 | 16,4 | 15,8 | 16,3 | 16,8 | 17,2 | 18,5 |
| 8H | 4H | 13,6 | 14,0 | 14,6 | 15,0 | 16,3 | 15,4 | 15,9 | 16,4 | 16,9 | 18,1 |
| 8H | 6H | 13,8 | 14,2 | 14,8 | 15,2 | 16,4 | 15,7 | 16,1 | 16,7 | 17,0 | 18,3 |
| 8H | 8H | 13,9 | 14,3 | 14,9 | 15,3 | 16,5 | 15,8 | 16,2 | 16,8 | 17,2 | 18,4 |
| 8H | 12H | 14,0 | 14,3 | 15,0 | 15,3 | 16,5 | 15,9 | 16,2 | 16,9 | 17,2 | 18,4 |
| 12H | 4H | 13,6 | 14,0 | 14,6 | 15,0 | 16,2 | 15,4 | 15,8 | 16,4 | 16,8 | 18,1 |
| 12H | 6H | 13,8 | 14,2 | 14,8 | 15,2 | 16,4 | 15,7 | 16,0 | 16,7 | 17,0 | 18,3 |
| 12H | 8H | 13,9 | 14,2 | 14,9 | 15,2 | 16,5 | 15,8 | 16,1 | 16,8 | 17,1 | 18,3 |

UGR values are corrected for lamp flux of 11880 lm by 8,6

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Luminance [cd/m²] REBA 65 D/I EXT L1698+INT SYM BGLARE 830 HO / Total 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 | 4647,32 | 4757,43 | 5163,71 | 5980,39 | 7124,97 | 8894,04 | 12236,1 | 8894,04 | 7124,97 |
| 50,00 | 3540,44 | 3605,13 | 3891,76 | 4508,25 | 5479,69 | 6872,49 | 10112,3 | 6872,49 | 5479,69 |
| 55,00 | 2631,53 | 2673,40 | 2931,04 | 3374,74 | 4122,67 | 5263,77 | 8097,51 | 5263,77 | 4122,67 |
| 60,00 | 1975,77 | 1991,23 | 2219,35 | 2520,34 | 3076,45 | 4000,61 | 6567,67 | 4000,61 | 3076,45 |
| 65,00 | 1473,06 | 1486,15 | 1652,03 | 1864,68 | 2273,51 | 3084,35 | 5424,24 | 3084,35 | 2273,51 |
| 70,00 | 1107,64 | 1133,78 | 1243,28 | 1366,86 | 1670,76 | 2372,78 | 4442,17 | 2372,78 | 1670,76 |
| 75,00 | 841,52 | 867,97 | 920,04 | 1001,95 | 1218,94 | 1796,88 | 3701,70 | 1796,88 | 1218,94 |
| 80,00 | 600,02 | 607,51 | 647,25 | 679,46 | 832,72 | 1256,96 | 3098,81 | 1256,96 | 832,72 |
| 85,00 | 363,49 | 369,12 | 387,69 | 386,70 | 461,71 | 732,99 | 2433,87 | 732,99 | 461,71 |

| G/C [cd/ | 135,00 | 150,00 | 165,00 | 180,00 | 195,00 | 210,00 | 225,00 | 240,00 | 255,00 |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 45,00 | 5980,39 | 5163,71 | 4757,43 | 4647,32 | 4757,43 | 5163,71 | 5980,39 | 7124,97 | 8894,04 |
| 50,00 | 4508,25 | 3891,76 | 3605,13 | 3540,44 | 3605,13 | 3891,76 | 4508,25 | 5479,69 | 6872,49 |
| 55,00 | 3374,74 | 2931,04 | 2673,40 | 2631,53 | 2673,40 | 2931,04 | 3374,74 | 4122,67 | 5263,77 |
| 60,00 | 2520,34 | 2219,35 | 1991,23 | 1975,77 | 1991,23 | 2219,35 | 2520,34 | 3076,45 | 4000,61 |
| 65,00 | 1864,68 | 1652,03 | 1486,15 | 1473,06 | 1486,15 | 1652,03 | 1864,68 | 2273,51 | 3084,35 |
| 70,00 | 1366,86 | 1243,28 | 1133,78 | 1107,64 | 1133,78 | 1243,28 | 1366,86 | 1670,76 | 2372,78 |
| 75,00 | 1001,95 | 920,04 | 867,97 | 841,52 | 867,97 | 920,04 | 1001,95 | 1218,94 | 1796,88 |
| 80,00 | 679,46 | 647,25 | 607,51 | 600,02 | 607,51 | 647,25 | 679,46 | 832,72 | 1256,96 |
| 85,00 | 386,70 | 387,69 | 369,12 | 363,49 | 369,12 | 387,69 | 386,70 | 461,71 | 732,99 |

| G/C [cd/ | 270,00 | 285,00 | 300,00 | 315,00 | 330,00 | 345,00 |
|----------|---------|---------|---------|---------|---------|---------|
| 45,00 | 12236,1 | 8894,04 | 7124,97 | 5980,39 | 5163,71 | 4757,43 |
| 50,00 | 10112,3 | 6872,49 | 5479,69 | 4508,25 | 3891,76 | 3605,13 |
| 55,00 | 8097,51 | 5263,77 | 4122,67 | 3374,74 | 2931,04 | 2673,40 |
| 60,00 | 6567,67 | 4000,61 | 3076,45 | 2520,34 | 2219,35 | 1991,23 |
| 65,00 | 5424,24 | 3084,35 | 2273,51 | 1864,68 | 1652,03 | 1486,15 |
| 70,00 | 4442,17 | 2372,78 | 1670,76 | 1366,86 | 1243,28 | 1133,78 |
| 75,00 | 3701,70 | 1796,88 | 1218,94 | 1001,95 | 920,04 | 867,97 |
| 80,00 | 3098,81 | 1256,96 | 832,72 | 679,46 | 647,25 | 607,51 |
| 85,00 | 2433,87 | 732,99 | 461,71 | 386,70 | 387,69 | 369,12 |

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