

PHOTOMETRIC RESULTS

| | | | |
|------------|---|---------------|------------------|
| Name: | REBA 50 /E EXT L1430+INT ASYM K3 840 HO | | |
| Number: | 90520+90500L005 | Diameter: | 0 mm |
| Report: | 23-01-2020 | Length: | 1430 mm |
| Meas.-no.: | 01 | Width: | 62 mm |
| Lamp type: | LED 840 - 01 | Height: | 72 mm |
| Number: | 01 | Power: | 39,92 W |
| Lamp flux: | 6235,00 lm | Operator: | INDEL AGUE GROUP |
| Date: | 23-01-2020 14:02:45 | Output ratio: | 58,6 % |

Protocol

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

Divergences in the plane through maximum intensity:

| | Horizontal | Vertical |
|-------------------------------|------------|----------|
| One half peak divergence | 95,0° | 53,2° |
| Half peak side angle (left) | -47,5° | -38,9° |
| Half peak side angle (right) | 47,5° | 14,2° |
| One tenth peak divergence | 144,1° | 133,2° |
| Tenth peak side angle (left) | -72,1° | -63,3° |
| Tenth peak side angle (right) | 72,1° | 70,0° |

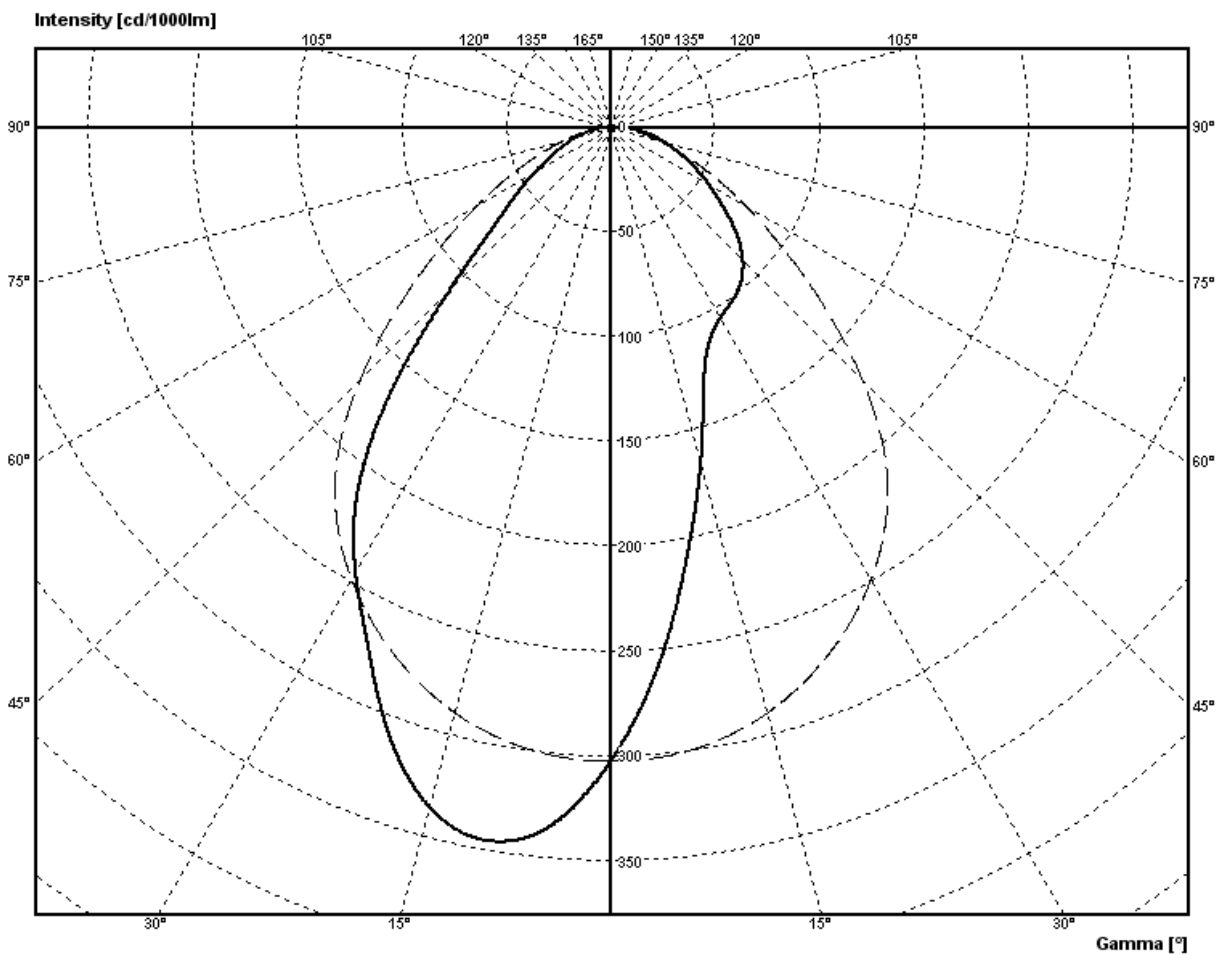
| | | | | | | | | | | |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| C-planes: | 0,0° | 15,0° | 30,0° | 45,0° | 60,0° | 75,0° | 90,0° | 105,0° | 120,0° | 135,0° |
| | 150,0° | 165,0° | 180,0° | 195,0° | 210,0° | 225,0° | 240,0° | 255,0° | 270,0° | 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 L1430+INT ASYM K3 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 | 16,5 | 18,0 | 16,8 | 18,3 | 18,6 | 20,3 | 21,8 | 20,6 | 22,1 | 22,4 |
| 2H | 3H | 17,0 | 18,4 | 17,4 | 18,7 | 19,1 | 21,0 | 22,4 | 21,4 | 22,7 | 23,1 |
| 2H | 4H | 17,3 | 18,5 | 17,7 | 18,9 | 19,2 | 21,3 | 22,6 | 21,7 | 22,9 | 23,3 |
| 2H | 6H | 17,4 | 18,6 | 17,8 | 18,9 | 19,3 | 21,6 | 22,7 | 22,0 | 23,1 | 23,5 |
| 2H | 8H | 17,4 | 18,5 | 17,8 | 18,9 | 19,3 | 21,6 | 22,7 | 22,0 | 23,1 | 23,5 |
| 2H | 12H | 17,4 | 18,5 | 17,8 | 18,9 | 19,3 | 21,6 | 22,7 | 22,0 | 23,1 | 23,5 |
| 4H | 2H | 17,0 | 18,3 | 17,4 | 18,6 | 19,0 | 20,3 | 21,6 | 20,7 | 21,9 | 22,3 |
| 4H | 3H | 17,7 | 18,8 | 18,1 | 19,2 | 19,6 | 21,2 | 22,2 | 21,6 | 22,6 | 23,0 |
| 4H | 4H | 18,0 | 19,0 | 18,5 | 19,4 | 19,8 | 21,6 | 22,5 | 22,0 | 22,9 | 23,4 |
| 4H | 6H | 18,2 | 19,1 | 18,7 | 19,5 | 19,9 | 21,8 | 22,6 | 22,3 | 23,1 | 23,5 |
| 4H | 8H | 18,3 | 19,1 | 18,8 | 19,5 | 20,0 | 21,9 | 22,7 | 22,4 | 23,1 | 23,6 |
| 4H | 12H | 18,3 | 19,0 | 18,8 | 19,5 | 20,0 | 22,0 | 22,7 | 22,4 | 23,1 | 23,6 |
| 8H | 4H | 18,2 | 19,0 | 18,7 | 19,4 | 19,9 | 21,5 | 22,3 | 22,0 | 22,7 | 23,2 |
| 8H | 6H | 18,4 | 19,1 | 18,9 | 19,6 | 20,1 | 21,8 | 22,4 | 22,3 | 22,9 | 23,4 |
| 8H | 8H | 18,6 | 19,2 | 19,1 | 19,7 | 20,2 | 22,0 | 22,5 | 22,5 | 23,0 | 23,5 |
| 8H | 12H | 18,7 | 19,1 | 19,2 | 19,6 | 20,2 | 22,0 | 22,5 | 22,6 | 23,0 | 23,5 |
| 12H | 4H | 18,2 | 18,9 | 18,7 | 19,4 | 19,9 | 21,5 | 22,2 | 22,0 | 22,7 | 23,2 |
| 12H | 6H | 18,5 | 19,1 | 19,0 | 19,6 | 20,1 | 21,8 | 22,4 | 22,3 | 22,9 | 23,4 |
| 12H | 8H | 18,6 | 19,1 | 19,2 | 19,6 | 20,1 | 22,0 | 22,4 | 22,5 | 22,9 | 23,4 |

UGR values are corrected for lamp flux of 6235 lm by 6,4

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Luminance [cd/m²] REBA 50 /E EXT L1430+INT ASYM K3 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 | 4757,16 | 4881,35 | 5136,08 | 5806,35 | 7356,38 | 11846,6 | 22025,2 | 18204,3 | 14454,1 |
| 50,00 | 4116,79 | 4086,80 | 4326,66 | 4906,07 | 6296,82 | 9646,54 | 18815,9 | 14658,1 | 11328,9 |
| 55,00 | 3406,85 | 3351,91 | 3683,38 | 4107,66 | 5314,93 | 7809,74 | 15696,6 | 11403,6 | 8483,97 |
| 60,00 | 2814,42 | 2733,97 | 3113,37 | 3420,79 | 4428,58 | 6316,90 | 13042,1 | 8646,17 | 6207,46 |
| 65,00 | 2308,51 | 2219,11 | 2543,39 | 2779,10 | 3594,87 | 4981,41 | 10751,8 | 6343,68 | 4319,64 |
| 70,00 | 1837,98 | 1778,69 | 2011,71 | 2201,83 | 2803,55 | 3897,48 | 8758,96 | 4537,26 | 2955,37 |
| 75,00 | 1429,38 | 1359,89 | 1532,78 | 1692,97 | 2131,22 | 3023,01 | 7153,07 | 3217,52 | 2045,54 |
| 80,00 | 1052,32 | 943,88 | 1080,96 | 1199,88 | 1501,71 | 2166,60 | 5790,79 | 2166,60 | 1375,62 |
| 85,00 | 648,64 | 499,33 | 586,03 | 647,46 | 808,16 | 1204,49 | 3987,58 | 1173,07 | 752,21 |

| G/C [cd/ | 135,00 | 150,00 | 165,00 | 180,00 | 195,00 | 210,00 | 225,00 | 240,00 | 255,00 |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 45,00 | 11418,1 | 9287,44 | 7917,85 | 5769,82 | 7917,85 | 9287,44 | 11418,1 | 14454,1 | 18204,3 |
| 50,00 | 8497,87 | 6329,74 | 5173,68 | 3832,67 | 5173,68 | 6329,74 | 8497,87 | 11328,9 | 14658,1 |
| 55,00 | 5921,19 | 4269,53 | 3589,11 | 2854,39 | 3589,11 | 4269,53 | 5921,19 | 8483,97 | 11403,6 |
| 60,00 | 4018,19 | 3086,59 | 2674,60 | 2152,54 | 2674,60 | 3086,59 | 4018,19 | 6207,46 | 8646,17 |
| 65,00 | 2786,87 | 2258,53 | 2004,76 | 1618,27 | 2004,76 | 2258,53 | 2786,87 | 4319,64 | 6343,68 |
| 70,00 | 2013,67 | 1689,70 | 1515,89 | 1225,32 | 1515,89 | 1689,70 | 2013,67 | 2955,37 | 4537,26 |
| 75,00 | 1476,67 | 1265,43 | 1136,53 | 916,73 | 1136,53 | 1265,43 | 1476,67 | 2045,54 | 3217,52 |
| 80,00 | 1029,71 | 888,46 | 794,49 | 579,09 | 794,49 | 888,46 | 1029,71 | 1375,62 | 2166,60 |
| 85,00 | 578,09 | 516,17 | 460,38 | 298,38 | 460,38 | 516,17 | 578,09 | 752,21 | 1173,07 |

| G/C [cd/ | 270,00 | 285,00 | 300,00 | 315,00 | 330,00 | 345,00 |
|----------|---------|---------|---------|---------|---------|---------|
| 45,00 | 22025,2 | 11846,6 | 7356,38 | 5806,35 | 5136,08 | 4881,35 |
| 50,00 | 18815,9 | 9646,54 | 6296,82 | 4906,07 | 4326,66 | 4086,80 |
| 55,00 | 15696,6 | 7809,74 | 5314,93 | 4107,66 | 3683,38 | 3351,91 |
| 60,00 | 13042,1 | 6316,90 | 4428,58 | 3420,79 | 3113,37 | 2733,97 |
| 65,00 | 10751,8 | 4981,41 | 3594,87 | 2779,10 | 2543,39 | 2219,11 |
| 70,00 | 8758,96 | 3897,48 | 2803,55 | 2201,83 | 2011,71 | 1778,69 |
| 75,00 | 7153,07 | 3023,01 | 2131,22 | 1692,97 | 1532,78 | 1359,89 |
| 80,00 | 5790,79 | 2166,60 | 1501,71 | 1199,88 | 1080,96 | 943,88 |
| 85,00 | 3987,58 | 1204,49 | 808,16 | 647,46 | 586,03 | 499,33 |

HEADQUARTERS

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