

PHOTOMETRIC RESULTS

| | | | |
|-------------------|--------------------------------------|----------------------|------------------|
| Name: | REBA 50 /E EXT L1430+INT ASYM 830 HO | | |
| Number: | 90520+90500L005 | Diameter: | 0 mm |
| Report: | 23-01-2020 | Length: | 1430 mm |
| Meas.-no.: | 01 | Width: | 62 mm |
| Lamp type: | LED 830 - 01 | Height: | 72 mm |
| Number: | 01 | Power: | 39,92 W |
| Lamp flux: | 6000,00 lm | Operator: | INDEL AGUE GROUP |
| Date: | 23-01-2020 14:54:30 | Output ratio: | 58,5 % |

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 | 94,9° | 52,9° |
| Half peak side angle (left) | -47,4° | -38,8° |
| Half peak side angle (right) | 47,4° | 14,1° |
| One tenth peak divergence | 144,1° | 133,0° |
| Tenth peak side angle (left) | -72,0° | -63,2° |
| Tenth peak side angle (right) | 72,0° | 69,8° |

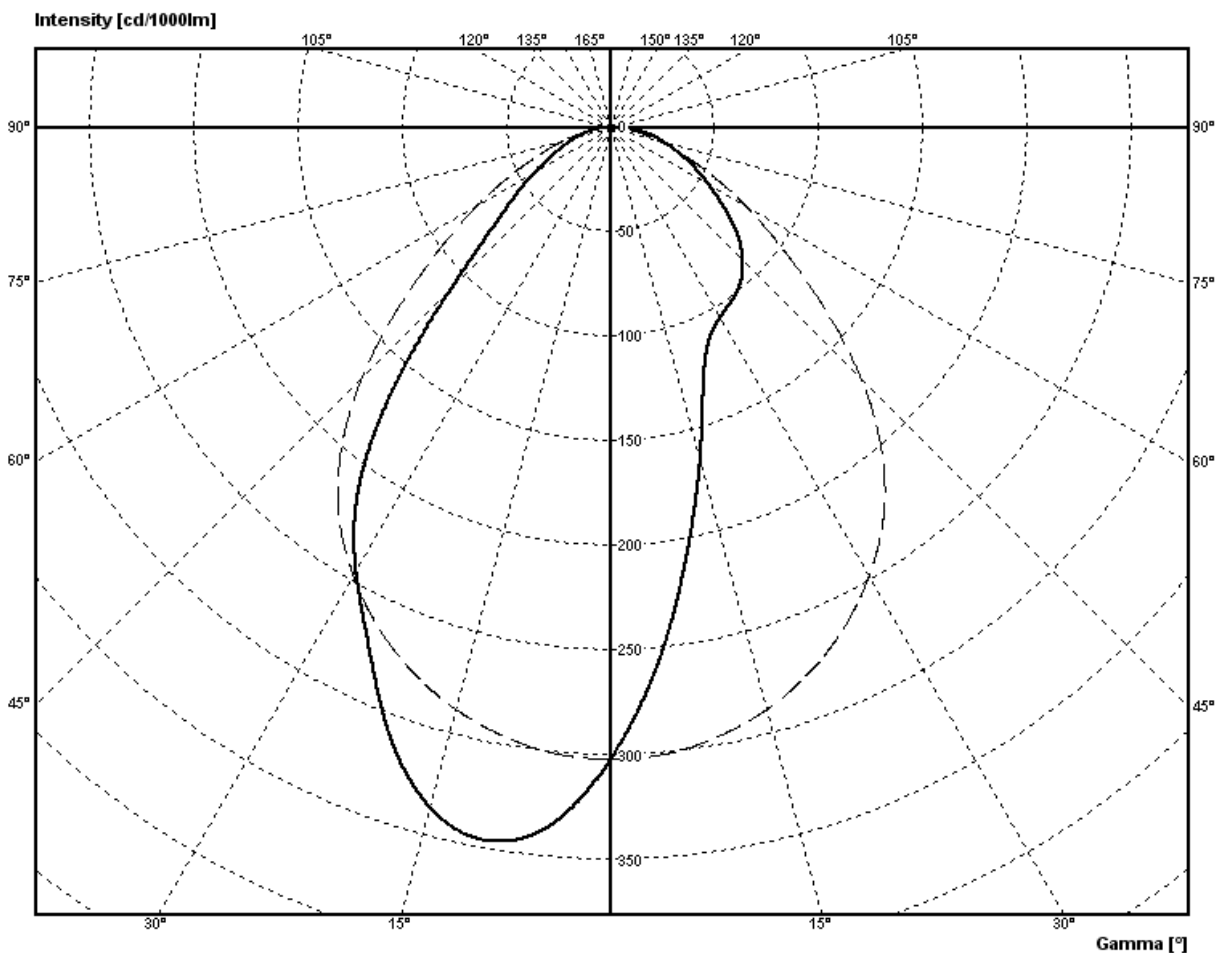
| | | | | | | | | | | |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| C-planes: | 0,0° | 15,0° | 30,0° | 45,0° | 60,0° | 75,0° | 90,0° | 105,0° | 120,0° | 135,0° |
| | 150,0° | 165,0° | 180,0° | 195,0° | 210,0° | 225,0° | 240,0° | 255,0°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

UGR values are corrected for lamp flux of 6000 lm by 6,2

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| Lamp flux: | 6000,00 lm | Operator: | INDEL AGUE GROUP |
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Luminance [cd/m²] REBA 50 /E EXT L1430+INT ASYM 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 | 4586,42 | 4699,13 | 4930,77 | 5589,31 | 7036,79 | 11357,3 | 21118,7 | 17447,9 | 13880,9 |
| 50,00 | 3995,02 | 3935,99 | 4157,72 | 4735,40 | 6032,30 | 9233,77 | 18009,9 | 14067,2 | 10903,3 |
| 55,00 | 3309,02 | 3233,83 | 3522,32 | 3967,15 | 5100,64 | 7440,31 | 14994,0 | 10933,5 | 8121,23 |
| 60,00 | 2716,58 | 2644,35 | 2989,01 | 3313,59 | 4237,29 | 6017,13 | 12565,4 | 8241,95 | 5897,79 |
| 65,00 | 2209,90 | 2151,18 | 2435,13 | 2686,08 | 3416,88 | 4764,50 | 10295,7 | 6050,37 | 4126,32 |
| 70,00 | 1749,61 | 1732,42 | 1922,68 | 2126,90 | 2668,82 | 3730,37 | 8397,97 | 4325,17 | 2800,24 |
| 75,00 | 1369,07 | 1332,54 | 1466,72 | 1645,00 | 2037,77 | 2897,30 | 6873,93 | 3083,44 | 1962,90 |
| 80,00 | 1014,96 | 922,77 | 1031,51 | 1167,76 | 1442,69 | 2081,69 | 5519,83 | 2081,69 | 1316,74 |
| 85,00 | 642,16 | 491,85 | 565,89 | 632,73 | 782,37 | 1160,93 | 3852,69 | 1119,10 | 720,27 |

| G/C [cd/ | 135,00 | 150,00 | 165,00 | 180,00 | 195,00 | 210,00 | 225,00 | 240,00 | 255,00 |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 45,00 | 10999,2 | 8884,81 | 7567,64 | 5528,43 | 7567,64 | 8884,81 | 10999,2 | 13880,9 | 17447,9 |
| 50,00 | 8106,11 | 6054,87 | 4971,77 | 3716,70 | 4971,77 | 6054,87 | 8106,11 | 10903,3 | 14067,2 |
| 55,00 | 5676,99 | 4111,04 | 3470,83 | 2768,07 | 3470,83 | 4111,04 | 5676,99 | 8121,23 | 10933,5 |
| 60,00 | 3872,19 | 2972,29 | 2578,79 | 2077,72 | 2578,79 | 2972,29 | 3872,19 | 5897,79 | 8241,95 |
| 65,00 | 2678,32 | 2170,95 | 1930,71 | 1554,47 | 1930,71 | 2170,95 | 2678,32 | 4126,32 | 6050,37 |
| 70,00 | 1931,00 | 1614,91 | 1453,83 | 1160,52 | 1453,83 | 1614,91 | 1931,00 | 2800,24 | 4325,17 |
| 75,00 | 1441,45 | 1217,52 | 1099,51 | 880,55 | 1099,51 | 1217,52 | 1441,45 | 1962,90 | 3083,44 |
| 80,00 | 989,11 | 842,95 | 763,32 | 554,18 | 763,32 | 842,95 | 989,11 | 1316,74 | 2081,69 |
| 85,00 | 549,60 | 488,37 | 438,77 | 285,40 | 438,77 | 488,37 | 549,60 | 720,27 | 1119,10 |

| G/C [cd/ | 270,00 | 285,00 | 300,00 | 315,00 | 330,00 | 345,00 |
|----------|---------|---------|---------|---------|---------|---------|
| 45,00 | 21118,7 | 11357,3 | 7036,79 | 5589,31 | 4930,77 | 4699,13 |
| 50,00 | 18009,9 | 9233,77 | 6032,30 | 4735,40 | 4157,72 | 3935,99 |
| 55,00 | 14994,0 | 7440,31 | 5100,64 | 3967,15 | 3522,32 | 3233,83 |
| 60,00 | 12565,4 | 6017,13 | 4237,29 | 3313,59 | 2989,01 | 2644,35 |
| 65,00 | 10295,7 | 4764,50 | 3416,88 | 2686,08 | 2435,13 | 2151,18 |
| 70,00 | 8397,97 | 3730,37 | 2668,82 | 2126,90 | 1922,68 | 1732,42 |
| 75,00 | 6873,93 | 2897,30 | 2037,77 | 1645,00 | 1466,72 | 1332,54 |
| 80,00 | 5519,83 | 2081,69 | 1442,69 | 1167,76 | 1031,51 | 922,77 |
| 85,00 | 3852,69 | 1160,93 | 782,37 | 632,73 | 565,89 | 491,85 |

HEADQUARTERS

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