

PHOTOMETRIC RESULTS

| | | | |
|------------|---|---------------|------------------|
| Name: | REBA 50 /E EXT LINE L1127 SRT/END+INT ASYM 830 HO | | |
| Number: | 90506-83+90500L004 | Diameter: | 0 mm |
| Report: | 23-01-2020 | Length: | 1127 mm |
| Meas.-no.: | 01 | Width: | 62 mm |
| Lamp type: | LED 830 - 01 | Height: | 72 mm |
| Number: | 1 | Power: | 32,11 W |
| Lamp flux: | 4800,00 lm | Operator: | INDEL AGUE GROUP |
| Date: | 23-01-2020 15:43:22 | Output ratio: | 56,7 % |

Protocol

LiTG-class: A50
UTE-class: 0,57 C
IES-class: 60 - 88 - 97 - 100 - 57
TM5-class: BZ3

Divergences in the plane through maximum intensity:

| | Horizontal | Vertical |
|-------------------------------|------------|----------|
| One half peak divergence | 93,9° | 54,8° |
| Half peak side angle (left) | -46,9° | -40,0° |
| Half peak side angle (right) | 46,9° | 14,8° |
| One tenth peak divergence | 140,7° | 130,5° |
| Tenth peak side angle (left) | -70,3° | -62,5° |
| Tenth peak side angle (right) | 70,3° | 68,0° |

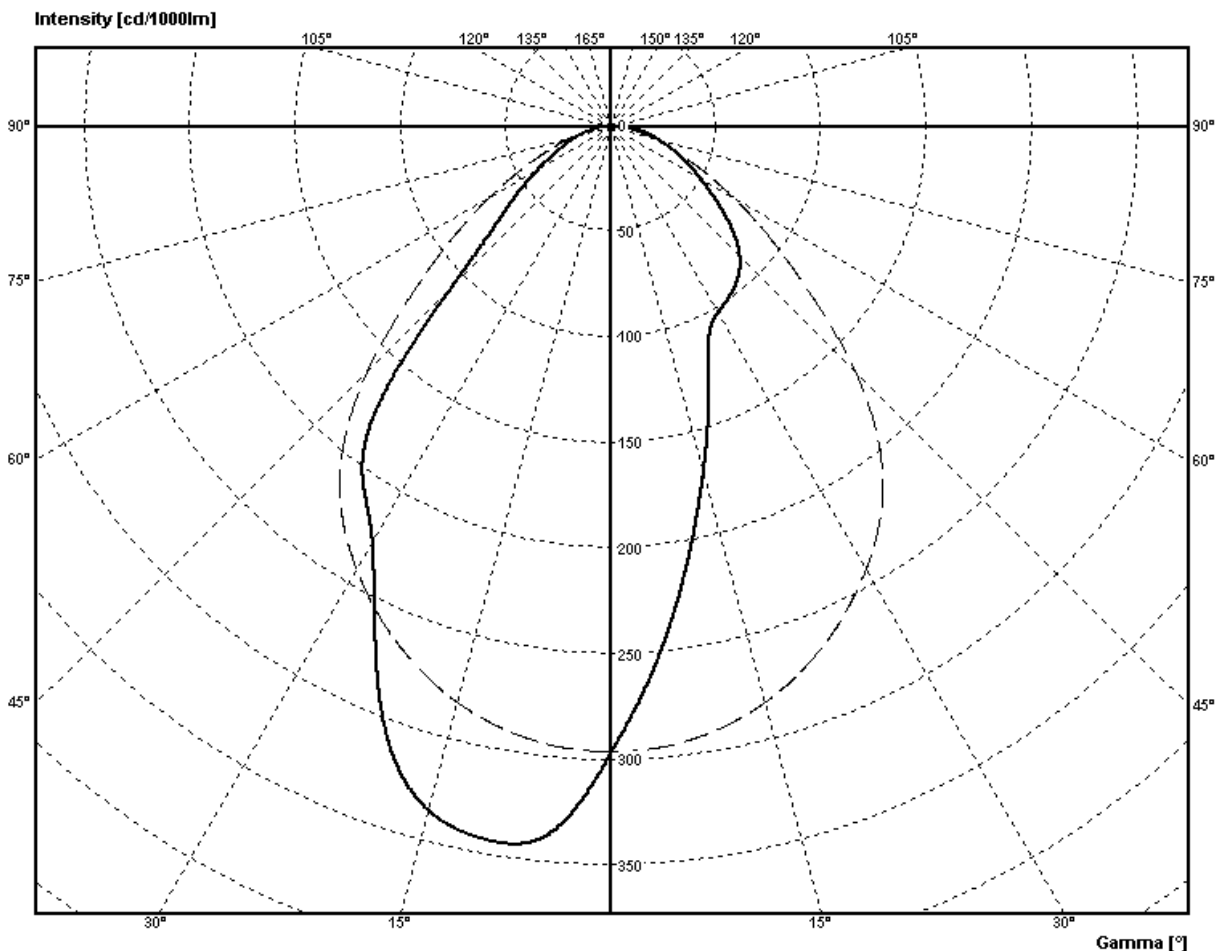
| | | | | | | | | | | |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| C-planes: | 0,0° | 15,0° | 30,0° | 45,0° | 60,0° | 75,0° | 90,0° | 105,0° | 120,0° | 135,0° |
| | 150,0° | 165,0° | 180,0° | 195,0° | 210,0° | 225,0° | 240,0° | 255,0° | 270,0° | 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 LINE L1127 SRT/END+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 | 16,2 | 17,7 | 16,5 | 18,0 | 18,3 | 19,8 | 21,3 | 20,1 | 21,6 | 21,9 |
| 2H | 3H | 16,7 | 18,0 | 17,1 | 18,4 | 18,7 | 20,4 | 21,8 | 20,8 | 22,1 | 22,4 |
| 2H | 4H | 16,9 | 18,1 | 17,3 | 18,5 | 18,8 | 20,7 | 21,9 | 21,1 | 22,3 | 22,6 |
| 2H | 6H | 17,0 | 18,2 | 17,4 | 18,5 | 18,9 | 20,9 | 22,0 | 21,3 | 22,4 | 22,8 |
| 2H | 8H | 17,0 | 18,1 | 17,4 | 18,5 | 18,9 | 20,9 | 22,0 | 21,3 | 22,4 | 22,8 |
| 2H | 12H | 17,0 | 18,1 | 17,4 | 18,5 | 18,9 | 20,9 | 22,0 | 21,3 | 22,3 | 22,8 |
| 4H | 2H | 16,7 | 17,9 | 17,1 | 18,3 | 18,6 | 19,8 | 21,1 | 20,2 | 21,4 | 21,8 |
| 4H | 3H | 17,3 | 18,4 | 17,7 | 18,7 | 19,2 | 20,6 | 21,6 | 21,0 | 22,0 | 22,4 |
| 4H | 4H | 17,6 | 18,5 | 18,1 | 19,0 | 19,4 | 20,9 | 21,8 | 21,3 | 22,2 | 22,7 |
| 4H | 6H | 17,8 | 18,6 | 18,2 | 19,0 | 19,5 | 21,1 | 21,9 | 21,6 | 22,4 | 22,8 |
| 4H | 8H | 17,8 | 18,6 | 18,3 | 19,0 | 19,5 | 21,2 | 22,0 | 21,7 | 22,4 | 22,9 |
| 4H | 12H | 17,9 | 18,6 | 18,3 | 19,0 | 19,5 | 21,2 | 21,9 | 21,7 | 22,4 | 22,9 |
| 8H | 4H | 17,7 | 18,5 | 18,2 | 18,9 | 19,4 | 20,9 | 21,6 | 21,3 | 22,1 | 22,5 |
| 8H | 6H | 18,0 | 18,6 | 18,4 | 19,1 | 19,6 | 21,1 | 21,7 | 21,6 | 22,2 | 22,7 |
| 8H | 8H | 18,1 | 18,6 | 18,6 | 19,2 | 19,6 | 21,3 | 21,8 | 21,8 | 22,3 | 22,8 |
| 8H | 12H | 18,1 | 18,6 | 18,7 | 19,1 | 19,6 | 21,3 | 21,8 | 21,8 | 22,3 | 22,8 |
| 12H | 4H | 17,7 | 18,4 | 18,2 | 18,9 | 19,4 | 20,8 | 21,5 | 21,3 | 22,0 | 22,5 |
| 12H | 6H | 18,0 | 18,6 | 18,5 | 19,1 | 19,6 | 21,1 | 21,7 | 21,6 | 22,2 | 22,7 |
| 12H | 8H | 18,1 | 18,6 | 18,7 | 19,1 | 19,6 | 21,2 | 21,7 | 21,8 | 22,2 | 22,7 |

UGR values are corrected for lamp flux of 4800 lm by 5,4

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Luminance [cd/m²] REBA 50 /E EXT LINE L1127 SRT/END+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 | 4436,18 | 4537,51 | 4719,70 | 5319,15 | 6863,95 | 11255,7 | 20177,7 | 16651,9 | 13079,1 |
| 50,00 | 3789,28 | 3708,59 | 3914,31 | 4395,87 | 5675,15 | 8815,74 | 16612,5 | 13075,2 | 10004,5 |
| 55,00 | 3063,35 | 2998,84 | 3335,66 | 3667,03 | 4656,09 | 6941,03 | 13645,8 | 9890,41 | 7344,03 |
| 60,00 | 2459,58 | 2386,02 | 2802,00 | 3047,67 | 3780,50 | 5485,64 | 11060,5 | 7314,18 | 5306,57 |
| 65,00 | 1993,13 | 1927,08 | 2225,50 | 2421,00 | 3038,88 | 4186,00 | 8803,92 | 5288,90 | 3734,17 |
| 70,00 | 1582,63 | 1559,30 | 1711,43 | 1890,59 | 2339,84 | 3231,13 | 6996,03 | 3765,12 | 2565,67 |
| 75,00 | 1213,34 | 1171,89 | 1282,31 | 1410,70 | 1757,59 | 2508,71 | 5759,87 | 2667,99 | 1790,75 |
| 80,00 | 894,77 | 783,47 | 893,75 | 986,05 | 1227,05 | 1807,07 | 4626,59 | 1818,22 | 1198,68 |
| 85,00 | 510,62 | 388,67 | 463,54 | 516,58 | 653,19 | 972,32 | 3081,28 | 997,91 | 653,19 |

| G/C [cd/ | 135,00 | 150,00 | 165,00 | 180,00 | 195,00 | 210,00 | 225,00 | 240,00 | 255,00 |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 45,00 | 10349,5 | 8918,26 | 7782,57 | 5436,71 | 7782,57 | 8918,26 | 10349,5 | 13079,1 | 16651,9 |
| 50,00 | 7890,27 | 5915,14 | 4786,67 | 3542,94 | 4786,67 | 5915,14 | 7890,27 | 10004,5 | 13075,2 |
| 55,00 | 5381,42 | 3949,69 | 3318,20 | 2653,46 | 3318,20 | 3949,69 | 5381,42 | 7344,03 | 9890,41 |
| 60,00 | 3700,75 | 2856,21 | 2463,99 | 1977,74 | 2463,99 | 2856,21 | 3700,75 | 5306,57 | 7314,18 |
| 65,00 | 2556,30 | 2069,25 | 1840,56 | 1464,05 | 1840,56 | 2069,25 | 2556,30 | 3734,17 | 5288,90 |
| 70,00 | 1796,06 | 1530,37 | 1391,38 | 1104,16 | 1391,38 | 1530,37 | 1796,06 | 2565,67 | 3765,12 |
| 75,00 | 1312,52 | 1158,07 | 1040,77 | 821,45 | 1040,77 | 1158,07 | 1312,52 | 1790,75 | 2667,99 |
| 80,00 | 915,62 | 801,61 | 690,30 | 505,74 | 690,30 | 801,61 | 915,62 | 1198,68 | 1818,22 |
| 85,00 | 516,58 | 468,37 | 415,17 | 291,79 | 415,17 | 468,37 | 516,58 | 653,19 | 997,91 |

| G/C [cd/ | 270,00 | 285,00 | 300,00 | 315,00 | 330,00 | 345,00 |
|----------|---------|---------|---------|---------|---------|---------|
| 45,00 | 20177,7 | 11255,7 | 6863,95 | 5319,15 | 4719,70 | 4537,51 |
| 50,00 | 16612,5 | 8815,74 | 5675,15 | 4395,87 | 3914,31 | 3708,59 |
| 55,00 | 13645,8 | 6941,03 | 4656,09 | 3667,03 | 3335,66 | 2998,84 |
| 60,00 | 11060,5 | 5485,64 | 3780,50 | 3047,67 | 2802,00 | 2386,02 |
| 65,00 | 8803,92 | 4186,00 | 3038,88 | 2421,00 | 2225,50 | 1927,08 |
| 70,00 | 6996,03 | 3231,13 | 2339,84 | 1890,59 | 1711,43 | 1559,30 |
| 75,00 | 5759,87 | 2508,71 | 1757,59 | 1410,70 | 1282,31 | 1171,89 |
| 80,00 | 4626,59 | 1807,07 | 1227,05 | 986,05 | 893,75 | 783,47 |
| 85,00 | 3081,28 | 972,32 | 653,19 | 516,58 | 463,54 | 388,67 |

HEADQUARTERS

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