

PHOTOMETRIC RESULTS

| | | | |
|-------------------|---|----------------------|------------------|
| Name: | REBA 50 /E EXT LINE L1407 SRT/END+INT SYM BFLEX K3 840 HO | | |
| Number: | 90506-83+90499L005 | Diameter: | 0 mm |
| Report: | 24-01-2020 | Length: | 1407 mm |
| Meas.-no.: | 01 | Width: | 62 mm |
| Lamp type: | LED 840 - 01 | Height: | 72 mm |
| Number: | 01 | Power: | 36,8 W |
| Lamp flux: | 5900,00 lm | Operator: | INDEL AGUE GROUP |
| Date: | 24-01-2020 15:44:31 | Output ratio: | 63,8 % |

Protocol

LiTG-class: A40
UTE-class: 0,64 E
IES-class: 46 - 76 - 93 - 100 - 64
TM5-class: BZ4/0.75/BZ5

Divergences in the plane through maximum intensity:

| | Horizontal | Vertical |
|-------------------------------|------------|----------|
| One half peak divergence | 109,5° | 113,4° |
| Half peak side angle (left) | -54,7° | -56,7° |
| Half peak side angle (right) | 54,7° | 56,7° |
| One tenth peak divergence | 163,3° | 175,4° |
| Tenth peak side angle (left) | -81,7° | -87,7° |
| Tenth peak side angle (right) | 81,7° | 87,7° |

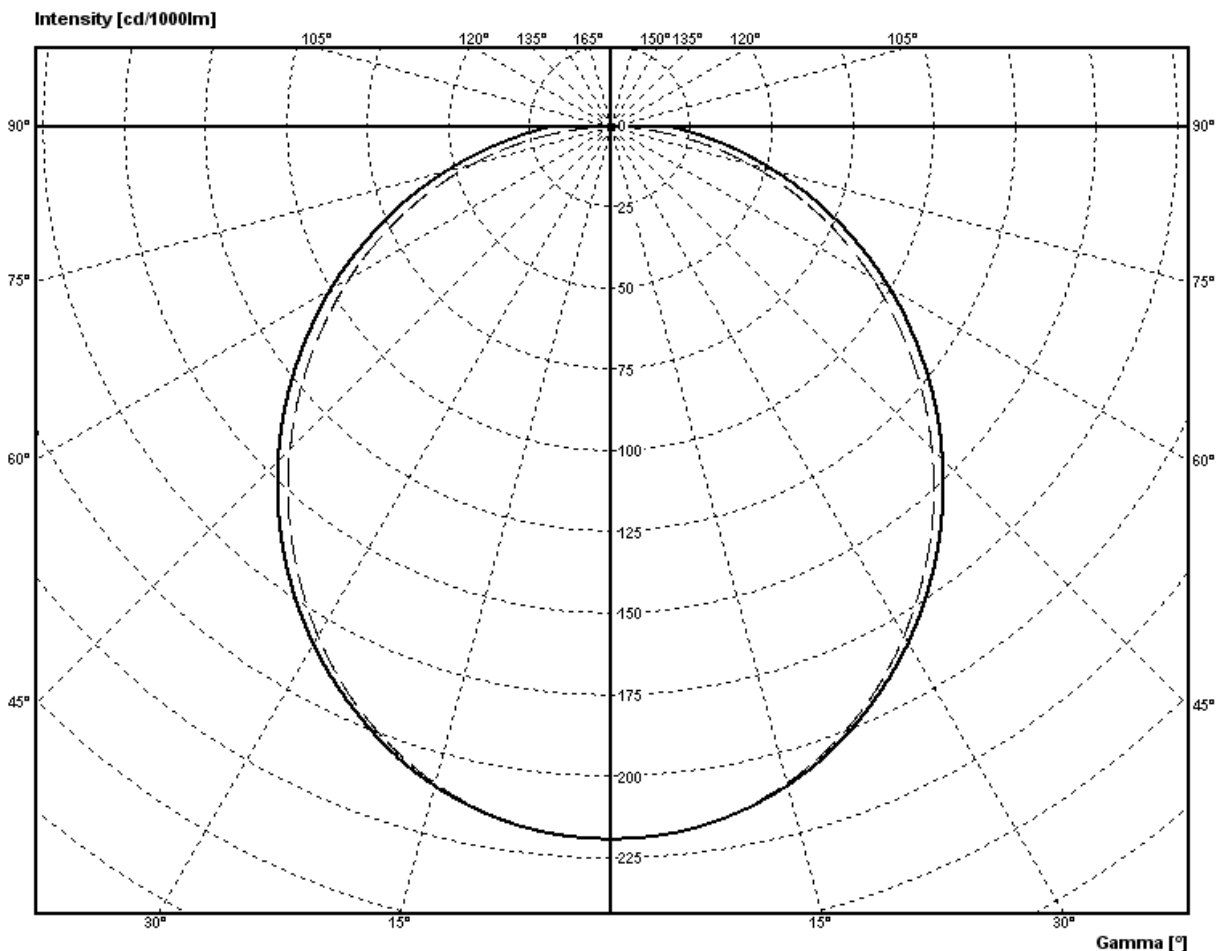
| | | | | | | | | | | |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| C-planes: | 0,0° | 15,0° | 30,0° | 45,0° | 60,0° | 75,0° | 90,0° | 105,0° | 120,0° | 135,0° |
| | 150,0° | 165,0° | 180,0° | 195,0° | 210,0° | 225,0° | 240,0° | 255,0° | 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 L1407 SRT/END+INT SYM BFLEX 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 | 18,6 | 20,2 | 18,9 | 20,5 | 20,9 | 20,3 | 22,0 | 20,7 | 22,3 | 22,6 |
| 2H | 3H | 19,8 | 21,3 | 20,2 | 21,7 | 22,0 | 22,0 | 23,5 | 22,3 | 23,8 | 24,2 |
| 2H | 4H | 20,3 | 21,7 | 20,7 | 22,1 | 22,4 | 22,6 | 24,1 | 23,0 | 24,4 | 24,8 |
| 2H | 6H | 20,7 | 22,0 | 21,1 | 22,4 | 22,8 | 23,2 | 24,5 | 23,6 | 24,9 | 25,3 |
| 2H | 8H | 20,8 | 22,1 | 21,2 | 22,4 | 22,8 | 23,3 | 24,6 | 23,7 | 25,0 | 25,4 |
| 2H | 12H | 20,9 | 22,1 | 21,3 | 22,5 | 22,9 | 23,4 | 24,6 | 23,8 | 25,0 | 25,4 |
| 4H | 2H | 19,3 | 20,7 | 19,7 | 21,1 | 21,4 | 20,7 | 22,2 | 21,1 | 22,5 | 22,9 |
| 4H | 3H | 20,6 | 21,9 | 21,1 | 22,3 | 22,7 | 22,4 | 23,7 | 22,8 | 24,1 | 24,5 |
| 4H | 4H | 21,3 | 22,4 | 21,7 | 22,8 | 23,2 | 23,2 | 24,3 | 23,7 | 24,8 | 25,2 |
| 4H | 6H | 21,7 | 22,7 | 22,2 | 23,2 | 23,6 | 23,8 | 24,8 | 24,3 | 25,2 | 25,7 |
| 4H | 8H | 21,9 | 22,8 | 22,4 | 23,3 | 23,7 | 24,0 | 25,0 | 24,5 | 25,4 | 25,9 |
| 4H | 12H | 22,1 | 22,9 | 22,6 | 23,4 | 23,9 | 24,2 | 25,0 | 24,6 | 25,5 | 26,0 |
| 8H | 4H | 21,6 | 22,5 | 22,0 | 22,9 | 23,4 | 23,3 | 24,3 | 23,8 | 24,7 | 25,2 |
| 8H | 6H | 22,1 | 22,9 | 22,6 | 23,4 | 23,9 | 24,0 | 24,8 | 24,5 | 25,2 | 25,7 |
| 8H | 8H | 22,4 | 23,1 | 22,9 | 23,6 | 24,1 | 24,3 | 25,0 | 24,8 | 25,5 | 26,0 |
| 8H | 12H | 22,6 | 23,2 | 23,2 | 23,7 | 24,2 | 24,5 | 25,1 | 25,0 | 25,6 | 26,1 |
| 12H | 4H | 21,6 | 22,5 | 22,1 | 22,9 | 23,4 | 23,4 | 24,2 | 23,8 | 24,7 | 25,2 |
| 12H | 6H | 22,2 | 22,9 | 22,7 | 23,4 | 23,9 | 24,1 | 24,8 | 24,6 | 25,3 | 25,7 |
| 12H | 8H | 22,5 | 23,1 | 23,0 | 23,6 | 24,1 | 24,3 | 24,9 | 24,9 | 25,4 | 25,9 |

UGR values are corrected for lamp flux of 5900 lm by 6,2

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Luminance [cd/m²] REBA 50 /E EXT LINE L1407 SRT/END+INT SYM BFLEX 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 | 7297,65 | 7397,40 | 7801,75 | 8589,72 | 9997,33 | 12459,4 | 17195,8 | 12459,4 | 9997,33 |
| 50,00 | 6462,19 | 6557,17 | 6921,97 | 7671,02 | 9027,76 | 11536,6 | 16717,0 | 11536,6 | 9027,76 |
| 55,00 | 5656,99 | 5744,19 | 6085,32 | 6782,92 | 8075,25 | 10551,6 | 16149,4 | 10551,6 | 8075,25 |
| 60,00 | 4897,90 | 4961,71 | 5270,85 | 5908,62 | 7112,51 | 9559,48 | 15597,0 | 9559,48 | 7112,51 |
| 65,00 | 4138,49 | 4203,59 | 4467,77 | 5029,33 | 6122,90 | 8410,35 | 14918,5 | 8410,35 | 6122,90 |
| 70,00 | 3410,86 | 3452,49 | 3673,50 | 4149,31 | 5108,23 | 7207,28 | 14067,4 | 7207,28 | 5108,23 |
| 75,00 | 2695,92 | 2722,94 | 2889,21 | 3252,12 | 4027,40 | 5817,59 | 12942,9 | 5817,59 | 4027,40 |
| 80,00 | 2039,25 | 2051,14 | 2151,94 | 2357,85 | 2884,75 | 4220,12 | 11121,0 | 4220,12 | 2884,75 |
| 85,00 | 1462,69 | 1454,53 | 1485,14 | 1552,71 | 1758,11 | 2385,65 | 7466,70 | 2385,65 | 1758,11 |

| G/C [cd/ | 135,00 | 150,00 | 165,00 | 180,00 | 195,00 | 210,00 | 225,00 | 240,00 | 255,00 |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 45,00 | 8589,72 | 7801,75 | 7397,40 | 7297,65 | 7397,40 | 7801,75 | 8589,72 | 9997,33 | 12459,4 |
| 50,00 | 7671,02 | 6921,97 | 6557,17 | 6462,19 | 6557,17 | 6921,97 | 7671,02 | 9027,76 | 11536,6 |
| 55,00 | 6782,92 | 6085,32 | 5744,19 | 5656,98 | 5744,19 | 6085,32 | 6782,92 | 8075,25 | 10551,6 |
| 60,00 | 5908,62 | 5270,85 | 4961,71 | 4897,90 | 4961,71 | 5270,85 | 5908,62 | 7112,51 | 9559,48 |
| 65,00 | 5029,33 | 4467,77 | 4203,59 | 4138,49 | 4203,59 | 4467,77 | 5029,33 | 6122,90 | 8410,35 |
| 70,00 | 4149,31 | 3673,50 | 3452,49 | 3410,86 | 3452,49 | 3673,50 | 4149,31 | 5108,23 | 7207,28 |
| 75,00 | 3252,12 | 2889,21 | 2722,94 | 2695,92 | 2722,94 | 2889,21 | 3252,12 | 4027,40 | 5817,59 |
| 80,00 | 2357,85 | 2151,94 | 2051,14 | 2039,25 | 2051,14 | 2151,94 | 2357,85 | 2884,75 | 4220,12 |
| 85,00 | 1552,71 | 1485,14 | 1454,53 | 1462,69 | 1454,53 | 1485,14 | 1552,71 | 1758,11 | 2385,65 |

| G/C [cd/ | 270,00 | 285,00 | 300,00 | 315,00 | 330,00 | 345,00 |
|----------|---------|---------|---------|---------|---------|---------|
| 45,00 | 17195,8 | 12459,4 | 9997,33 | 8589,72 | 7801,75 | 7397,40 |
| 50,00 | 16717,0 | 11536,6 | 9027,76 | 7671,02 | 6921,97 | 6557,17 |
| 55,00 | 16149,4 | 10551,6 | 8075,25 | 6782,92 | 6085,32 | 5744,19 |
| 60,00 | 15597,0 | 9559,48 | 7112,51 | 5908,62 | 5270,85 | 4961,71 |
| 65,00 | 14918,5 | 8410,35 | 6122,90 | 5029,33 | 4467,77 | 4203,59 |
| 70,00 | 14067,4 | 7207,28 | 5108,23 | 4149,31 | 3673,50 | 3452,49 |
| 75,00 | 12942,9 | 5817,59 | 4027,40 | 3252,12 | 2889,21 | 2722,94 |
| 80,00 | 11121,0 | 4220,12 | 2884,75 | 2357,85 | 2151,94 | 2051,14 |
| 85,00 | 7466,70 | 2385,65 | 1758,11 | 1552,71 | 1485,14 | 1454,53 |

HEADQUARTERS

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