

PHOTOMETRIC RESULTS

| | | | |
|------------|---|---------------|------------------|
| Name: | REBA 50 /T EXT LINE L2804 MID+INT SYM BLINE K3 830 HO | | |
| Number: | 90507+90497L010 | Diameter: | 0 mm |
| Report: | 24-01-2020 | Length: | 2804 mm |
| Meas.-no.: | 01 | Width: | 70 mm |
| Lamp type: | LED 830 - 01 | Height: | 114 mm |
| Number: | 01 | Power: | 73,6 W |
| Lamp flux: | 10800,00 lm | Operator: | INDEL AGUE GROUP |
| Date: | 24-01-2020 16:26:13 | Output ratio: | 63,5 % |

Protocol

LiTG-class: A40
UTE-class: 0,63 E
IES-class: 49 - 80 - 95 - 100 - 63
TM5-class: BZ5/0.75/BZ4

Divergences in the plane through maximum intensity:

| | Horizontal | Vertical |
|-------------------------------|------------|----------|
| One half peak divergence | 102,6° | 100,7° |
| Half peak side angle (left) | -51,3° | -50,3° |
| Half peak side angle (right) | 51,3° | 50,3° |
| One tenth peak divergence | 157,4° | 160,5° |
| Tenth peak side angle (left) | -78,7° | -80,3° |
| Tenth peak side angle (right) | 78,7° | 80,3° |

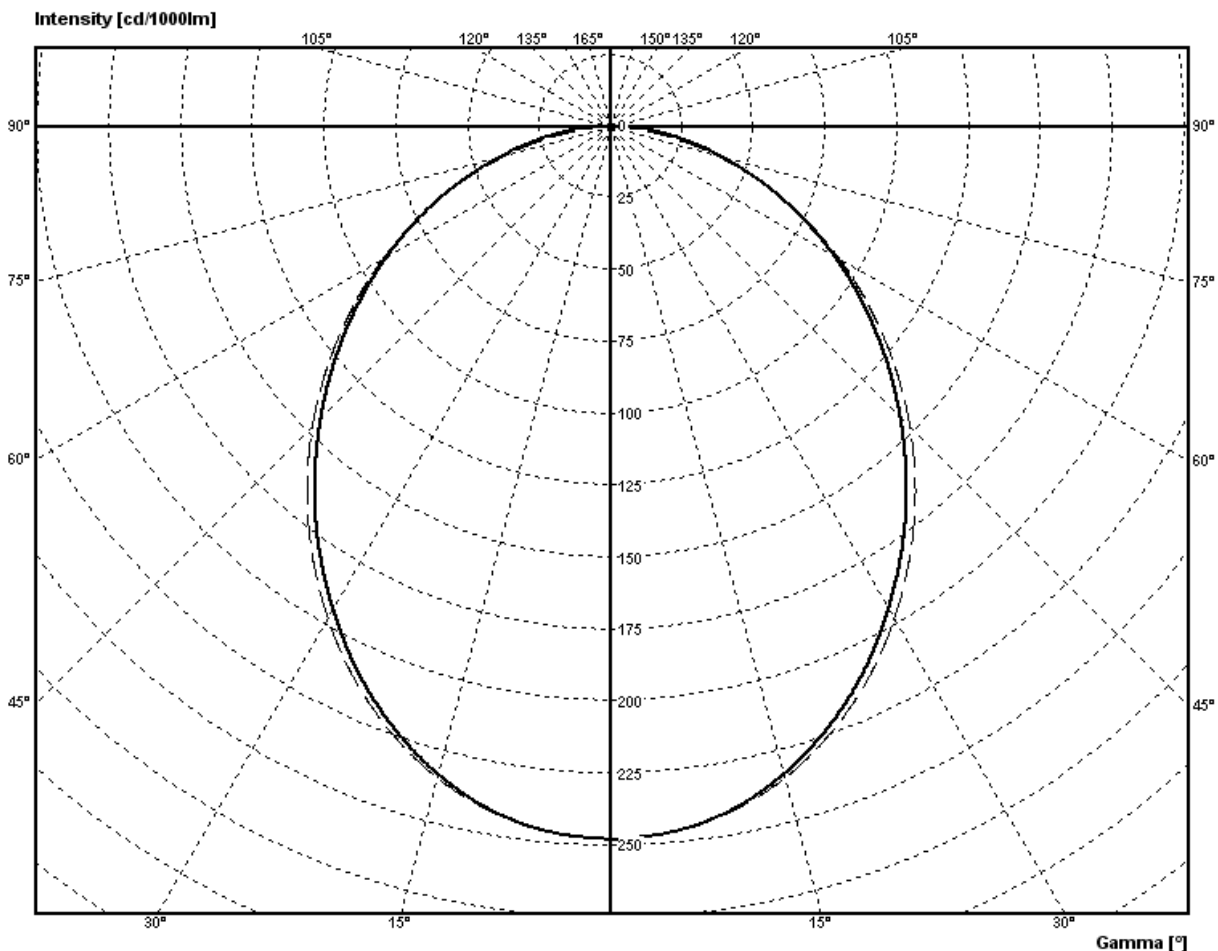
| | | | | | | | | | | |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| C-planes: | 0,0° | 15,0° | 30,0° | 45,0° | 60,0° | 75,0° | 90,0° | 105,0° | 120,0° | 135,0° |
| | 150,0° | 165,0° | 180,0° | 195,0° | 210,0° | 225,0° | 240,0° | 255,0° | 270,0° | 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° | |

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Polar diagram REBA 50 /T EXT LINE L2804 MID+INT SYM BLINE K3 830 HO / Direct iim
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 | 16,9 | 18,5 | 17,2 | 18,8 | 19,1 | 19,6 | 21,2 | 20,0 | 21,5 | 21,8 |
| 2H | 3H | 17,8 | 19,3 | 18,2 | 19,6 | 20,0 | 21,0 | 22,5 | 21,4 | 22,8 | 23,1 |
| 2H | 4H | 18,1 | 19,5 | 18,5 | 19,9 | 20,2 | 21,5 | 22,9 | 21,9 | 23,3 | 23,6 |
| 2H | 6H | 18,4 | 19,6 | 18,8 | 20,0 | 20,4 | 21,9 | 23,2 | 22,3 | 23,5 | 23,9 |
| 2H | 8H | 18,4 | 19,6 | 18,8 | 20,0 | 20,4 | 22,0 | 23,2 | 22,4 | 23,6 | 24,0 |
| 2H | 12H | 18,4 | 19,6 | 18,8 | 19,9 | 20,4 | 22,0 | 23,2 | 22,4 | 23,6 | 24,0 |
| 4H | 2H | 17,6 | 18,9 | 18,0 | 19,3 | 19,7 | 19,8 | 21,2 | 20,2 | 21,5 | 21,9 |
| 4H | 3H | 18,6 | 19,8 | 19,0 | 20,2 | 20,6 | 21,3 | 22,5 | 21,7 | 22,9 | 23,3 |
| 4H | 4H | 19,1 | 20,1 | 19,5 | 20,5 | 21,0 | 21,9 | 23,0 | 22,4 | 23,4 | 23,8 |
| 4H | 6H | 19,3 | 20,2 | 19,8 | 20,7 | 21,1 | 22,3 | 23,3 | 22,8 | 23,7 | 24,1 |
| 4H | 8H | 19,4 | 20,2 | 19,8 | 20,7 | 21,1 | 22,5 | 23,3 | 22,9 | 23,8 | 24,2 |
| 4H | 12H | 19,4 | 20,2 | 19,9 | 20,7 | 21,2 | 22,5 | 23,3 | 23,0 | 23,8 | 24,3 |
| 8H | 4H | 19,3 | 20,1 | 19,7 | 20,6 | 21,0 | 22,0 | 22,8 | 22,4 | 23,3 | 23,7 |
| 8H | 6H | 19,6 | 20,3 | 20,1 | 20,8 | 21,3 | 22,4 | 23,1 | 22,9 | 23,6 | 24,1 |
| 8H | 8H | 19,7 | 20,4 | 20,2 | 20,9 | 21,4 | 22,6 | 23,2 | 23,1 | 23,7 | 24,2 |
| 8H | 12H | 19,8 | 20,3 | 20,3 | 20,9 | 21,4 | 22,7 | 23,2 | 23,2 | 23,7 | 24,2 |
| 12H | 4H | 19,3 | 20,1 | 19,8 | 20,5 | 21,0 | 22,0 | 22,8 | 22,4 | 23,2 | 23,7 |
| 12H | 6H | 19,7 | 20,3 | 20,2 | 20,8 | 21,3 | 22,4 | 23,1 | 22,9 | 23,6 | 24,1 |
| 12H | 8H | 19,8 | 20,3 | 20,3 | 20,8 | 21,3 | 22,6 | 23,1 | 23,1 | 23,6 | 24,1 |

UGR values are corrected for lamp flux of 10800 lm by 8,3

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Luminance [cd/m²] REBA 50 /T EXT LINE L2804 MID+INT SYM BLINE K3 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 | 4856,03 | 4967,63 | 5379,38 | 6169,47 | 7601,32 | 10330,7 | 16727,2 | 10330,7 | 7601,32 |
| 50,00 | 4119,45 | 4218,68 | 4582,62 | 5297,93 | 6622,93 | 9241,98 | 15986,1 | 9241,98 | 6622,93 |
| 55,00 | 3452,19 | 3537,96 | 3857,12 | 4490,57 | 5675,81 | 8153,90 | 15196,1 | 8153,90 | 5675,81 |
| 60,00 | 2847,36 | 2915,69 | 3187,67 | 3731,18 | 4786,51 | 7040,91 | 14342,5 | 7040,91 | 4786,51 |
| 65,00 | 2278,75 | 2336,65 | 2563,08 | 3007,10 | 3904,97 | 5888,54 | 13330,6 | 5888,54 | 3904,97 |
| 70,00 | 1750,71 | 1795,04 | 1966,35 | 2313,76 | 3032,80 | 4689,70 | 12014,8 | 4689,70 | 3032,80 |
| 75,00 | 1259,08 | 1286,71 | 1408,92 | 1647,86 | 2161,78 | 3414,54 | 10336,5 | 3414,54 | 2161,78 |
| 80,00 | 813,55 | 825,71 | 898,63 | 1035,10 | 1341,32 | 2140,06 | 8085,83 | 2140,06 | 1341,32 |
| 85,00 | 449,50 | 448,50 | 477,15 | 523,76 | 654,04 | 970,64 | 5196,08 | 970,64 | 654,04 |

| G/C [cd/ | 135,00 | 150,00 | 165,00 | 180,00 | 195,00 | 210,00 | 225,00 | 240,00 | 255,00 |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 45,00 | 6169,47 | 5379,38 | 4967,63 | 4856,03 | 4967,63 | 5379,38 | 6169,47 | 7601,32 | 10330,7 |
| 50,00 | 5297,93 | 4582,62 | 4218,68 | 4119,45 | 4218,68 | 4582,62 | 5297,93 | 6622,93 | 9241,98 |
| 55,00 | 4490,57 | 3857,12 | 3537,96 | 3452,19 | 3537,96 | 3857,12 | 4490,57 | 5675,81 | 8153,90 |
| 60,00 | 3731,18 | 3187,67 | 2915,69 | 2847,36 | 2915,69 | 3187,67 | 3731,18 | 4786,51 | 7040,91 |
| 65,00 | 3007,10 | 2563,08 | 2336,65 | 2278,75 | 2336,65 | 2563,08 | 3007,10 | 3904,97 | 5888,54 |
| 70,00 | 2313,76 | 1966,35 | 1795,04 | 1750,71 | 1795,04 | 1966,35 | 2313,76 | 3032,80 | 4689,70 |
| 75,00 | 1647,86 | 1408,92 | 1286,71 | 1259,08 | 1286,71 | 1408,92 | 1647,86 | 2161,78 | 3414,54 |
| 80,00 | 1035,10 | 898,63 | 825,71 | 813,55 | 825,71 | 898,63 | 1035,10 | 1341,32 | 2140,06 |
| 85,00 | 523,76 | 477,15 | 448,50 | 449,50 | 448,50 | 477,15 | 523,76 | 654,04 | 970,64 |

| G/C [cd/ | 270,00 | 285,00 | 300,00 | 315,00 | 330,00 | 345,00 |
|----------|---------|---------|---------|---------|---------|---------|
| 45,00 | 16727,2 | 10330,7 | 7601,32 | 6169,47 | 5379,38 | 4967,63 |
| 50,00 | 15986,1 | 9241,98 | 6622,93 | 5297,93 | 4582,62 | 4218,68 |
| 55,00 | 15196,1 | 8153,90 | 5675,81 | 4490,57 | 3857,12 | 3537,96 |
| 60,00 | 14342,5 | 7040,91 | 4786,51 | 3731,18 | 3187,67 | 2915,69 |
| 65,00 | 13330,6 | 5888,54 | 3904,97 | 3007,10 | 2563,08 | 2336,65 |
| 70,00 | 12014,8 | 4689,70 | 3032,80 | 2313,76 | 1966,35 | 1795,04 |
| 75,00 | 10336,5 | 3414,54 | 2161,78 | 1647,86 | 1408,92 | 1286,71 |
| 80,00 | 8085,83 | 2140,06 | 1341,32 | 1035,10 | 898,63 | 825,71 |
| 85,00 | 5196,08 | 970,64 | 654,04 | 523,76 | 477,15 | 448,50 |

HEADQUARTERS

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