

PHOTOMETRIC RESULTS

| | | | |
|------------|--|---------------|------------------|
| Name: | REBA 50 /T EXT LINE L1122 MID+INT SYM BFLEX 840 HO | | |
| Number: | 90507+90499L004 | Diameter: | 0 mm |
| Report: | 24-01-2020 | Length: | 1122 mm |
| Meas.-no.: | 01 | Width: | 70 mm |
| Lamp type: | LED 840 - 01 | Height: | 114 mm |
| Number: | 01 | Power: | 28,70 W |
| Lamp flux: | 4720,00 lm | Operator: | INDEL AGUE GROUP |
| Date: | 24-01-2020 13:49:26 | Output ratio: | 63,5 % |

Protocol

LiTG-class: A40
UTE-class: 0,63 E
IES-class: 46 - 76 - 93 - 100 - 63
TM5-class: BZ4/0.75/BZ5

| Divergences in the plane through maximum intensity: | Horizontal | Vertical |
|---|------------|----------|
| One half peak divergence | 109,1° | 113,2° |
| Half peak side angle (left) | -54,6° | -56,6° |
| Half peak side angle (right) | 54,6° | 56,6° |
| One tenth peak divergence | 163,1° | 174,6° |
| Tenth peak side angle (left) | -81,6° | -87,3° |
| Tenth peak side angle (right) | 81,6° | 87,3° |

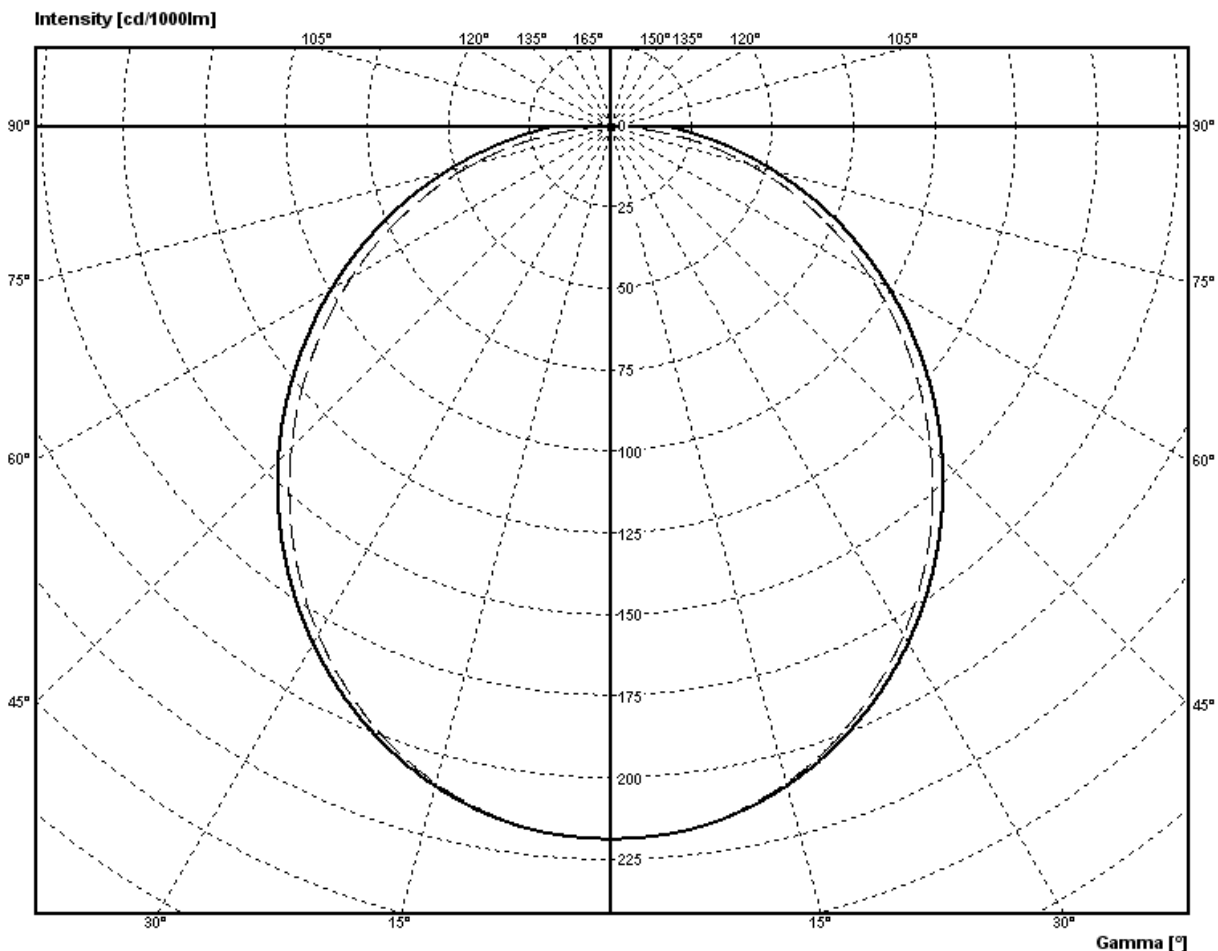
| | | | | | | | | | | |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| C-planes: | 0,0° | 15,0° | 30,0° | 45,0° | 60,0° | 75,0° | 90,0° | 105,0° | 120,0° | 135,0° |
| | 150,0° | 165,0° | 180,0° | 195,0° | 210,0° | 225,0° | 240,0° | 255,0° | 270,0° | 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 L1122 MID+INT SYM BFLEX 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 | 17,4 | 19,1 | 17,8 | 19,4 | 19,7 | 19,6 | 21,3 | 19,9 | 21,6 | 21,9 |
| 2H | 3H | 18,6 | 20,1 | 19,0 | 20,4 | 20,8 | 21,2 | 22,7 | 21,5 | 23,0 | 23,4 |
| 2H | 4H | 19,0 | 20,5 | 19,4 | 20,8 | 21,2 | 21,8 | 23,2 | 22,2 | 23,6 | 24,0 |
| 2H | 6H | 19,4 | 20,7 | 19,8 | 21,1 | 21,5 | 22,3 | 23,6 | 22,7 | 24,0 | 24,4 |
| 2H | 8H | 19,5 | 20,8 | 19,9 | 21,2 | 21,6 | 22,4 | 23,7 | 22,8 | 24,1 | 24,5 |
| 2H | 12H | 19,6 | 20,8 | 20,0 | 21,2 | 21,6 | 22,5 | 23,7 | 22,9 | 24,1 | 24,5 |
| 4H | 2H | 18,1 | 19,5 | 18,5 | 19,9 | 20,3 | 19,9 | 21,3 | 20,3 | 21,7 | 22,0 |
| 4H | 3H | 19,4 | 20,7 | 19,8 | 21,0 | 21,5 | 21,6 | 22,8 | 22,0 | 23,2 | 23,6 |
| 4H | 4H | 20,0 | 21,1 | 20,5 | 21,5 | 22,0 | 22,3 | 23,4 | 22,8 | 23,9 | 24,3 |
| 4H | 6H | 20,4 | 21,4 | 20,9 | 21,9 | 22,3 | 22,9 | 23,9 | 23,3 | 24,3 | 24,7 |
| 4H | 8H | 20,6 | 21,5 | 21,1 | 22,0 | 22,4 | 23,1 | 24,0 | 23,5 | 24,4 | 24,9 |
| 4H | 12H | 20,8 | 21,6 | 21,2 | 22,1 | 22,5 | 23,2 | 24,0 | 23,7 | 24,5 | 25,0 |
| 8H | 4H | 20,3 | 21,2 | 20,8 | 21,7 | 22,1 | 22,4 | 23,3 | 22,9 | 23,8 | 24,2 |
| 8H | 6H | 20,8 | 21,6 | 21,3 | 22,1 | 22,5 | 23,0 | 23,8 | 23,5 | 24,3 | 24,7 |
| 8H | 8H | 21,1 | 21,8 | 21,6 | 22,3 | 22,8 | 23,3 | 24,0 | 23,8 | 24,5 | 25,0 |
| 8H | 12H | 21,3 | 21,9 | 21,8 | 22,4 | 22,9 | 23,4 | 24,0 | 24,0 | 24,5 | 25,0 |
| 12H | 4H | 20,3 | 21,2 | 20,8 | 21,6 | 22,1 | 22,4 | 23,3 | 22,9 | 23,7 | 24,2 |
| 12H | 6H | 20,9 | 21,6 | 21,4 | 22,1 | 22,6 | 23,1 | 23,8 | 23,6 | 24,3 | 24,7 |
| 12H | 8H | 21,2 | 21,8 | 21,7 | 22,3 | 22,8 | 23,3 | 23,9 | 23,8 | 24,4 | 24,9 |

UGR values are corrected for lamp flux of 4720 lm by 5,4

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Luminance [cd/m²] REBA 50 /T EXT LINE L1122 MID+INT SYM BFLEX 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 | 5365,99 | 5445,69 | 5786,24 | 6501,03 | 7795,00 | 10359,9 | 16296,5 | 10359,9 | 7795,00 |
| 50,00 | 4665,64 | 4741,36 | 5042,61 | 5681,07 | 6912,67 | 9375,03 | 15687,1 | 9375,03 | 6912,67 |
| 55,00 | 4013,10 | 4076,25 | 4347,95 | 4933,48 | 6042,71 | 8392,60 | 15024,3 | 8392,60 | 6042,71 |
| 60,00 | 3413,98 | 3467,10 | 3701,26 | 4203,75 | 5207,65 | 7399,35 | 14282,8 | 7399,35 | 5207,65 |
| 65,00 | 2845,22 | 2886,61 | 3083,78 | 3515,33 | 4386,46 | 6364,86 | 13434,9 | 6364,86 | 4386,46 |
| 70,00 | 2303,33 | 2333,87 | 2493,60 | 2839,53 | 3559,89 | 5297,50 | 12400,3 | 5297,50 | 3559,89 |
| 75,00 | 1783,36 | 1805,16 | 1921,49 | 2170,61 | 2735,34 | 4121,21 | 11080,3 | 4121,21 | 2735,34 |
| 80,00 | 1319,51 | 1325,16 | 1390,19 | 1533,47 | 1892,33 | 2865,64 | 8933,95 | 2865,64 | 1892,33 |
| 85,00 | 916,26 | 912,74 | 934,71 | 971,11 | 1109,02 | 1532,11 | 5355,61 | 1532,11 | 1109,02 |

| G/C [cd/ | 135,00 | 150,00 | 165,00 | 180,00 | 195,00 | 210,00 | 225,00 | 240,00 | 255,00 |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 45,00 | 6501,03 | 5786,24 | 5445,69 | 5365,99 | 5445,69 | 5786,24 | 6501,03 | 7795,00 | 10359,9 |
| 50,00 | 5681,07 | 5042,61 | 4741,36 | 4665,64 | 4741,36 | 5042,61 | 5681,07 | 6912,67 | 9375,03 |
| 55,00 | 4933,48 | 4347,95 | 4076,25 | 4013,10 | 4076,25 | 4347,95 | 4933,48 | 6042,71 | 8392,60 |
| 60,00 | 4203,75 | 3701,26 | 3467,10 | 3413,98 | 3467,10 | 3701,26 | 4203,75 | 5207,65 | 7399,35 |
| 65,00 | 3515,33 | 3083,78 | 2886,61 | 2845,22 | 2886,61 | 3083,78 | 3515,33 | 4386,46 | 6364,86 |
| 70,00 | 2839,53 | 2493,60 | 2333,87 | 2303,33 | 2333,87 | 2493,60 | 2839,53 | 3559,89 | 5297,50 |
| 75,00 | 2170,61 | 1921,49 | 1805,16 | 1783,36 | 1805,16 | 1921,49 | 2170,61 | 2735,34 | 4121,21 |
| 80,00 | 1533,47 | 1390,19 | 1325,16 | 1319,51 | 1325,16 | 1390,19 | 1533,47 | 1892,33 | 2865,64 |
| 85,00 | 971,11 | 934,71 | 912,74 | 916,26 | 912,74 | 934,71 | 971,11 | 1109,02 | 1532,11 |

| G/C [cd/ | 270,00 | 285,00 | 300,00 | 315,00 | 330,00 | 345,00 |
|----------|---------|---------|---------|---------|---------|---------|
| 45,00 | 16296,5 | 10359,9 | 7795,00 | 6501,03 | 5786,24 | 5445,69 |
| 50,00 | 15687,1 | 9375,03 | 6912,67 | 5681,07 | 5042,61 | 4741,36 |
| 55,00 | 15024,3 | 8392,60 | 6042,71 | 4933,48 | 4347,95 | 4076,25 |
| 60,00 | 14282,8 | 7399,35 | 5207,65 | 4203,75 | 3701,26 | 3467,10 |
| 65,00 | 13434,9 | 6364,86 | 4386,46 | 3515,33 | 3083,78 | 2886,61 |
| 70,00 | 12400,3 | 5297,50 | 3559,89 | 2839,53 | 2493,60 | 2333,87 |
| 75,00 | 11080,3 | 4121,21 | 2735,34 | 2170,61 | 1921,49 | 1805,16 |
| 80,00 | 8933,95 | 2865,64 | 1892,33 | 1533,47 | 1390,19 | 1325,16 |
| 85,00 | 5355,61 | 1532,11 | 1109,02 | 971,11 | 934,71 | 912,74 |

HEADQUARTERS

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