

PHOTOMETRIC RESULTS

| | | | |
|-------------------|--|----------------------|------------------|
| Name: | REBA 50 /E EXT LINE L2804 MID+INT ASYM K3 840 HO | | |
| Number: | 90506+90500L010 | Diameter: | 0 mm |
| Report: | 23-01-2020 | Length: | 2804 mm |
| Meas.-no.: | 01 | Width: | 62 mm |
| Lamp type: | LED 840 - 01 | Height: | 72 mm |
| Number: | 01 | Power: | 79,85 W |
| Lamp flux: | 12470,00 lm | Operator: | INDEL AGUE GROUP |
| Date: | 23-01-2020 14:02:45 | Output ratio: | 58,6 % |

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 | 95,0° | 53,2° |
| Half peak side angle (left) | -47,5° | -38,9° |
| Half peak side angle (right) | 47,5° | 14,2° |
| One tenth peak divergence | 144,1° | 133,2° |
| Tenth peak side angle (left) | -72,1° | -63,3° |
| Tenth peak side angle (right) | 72,1° | 70,0° |

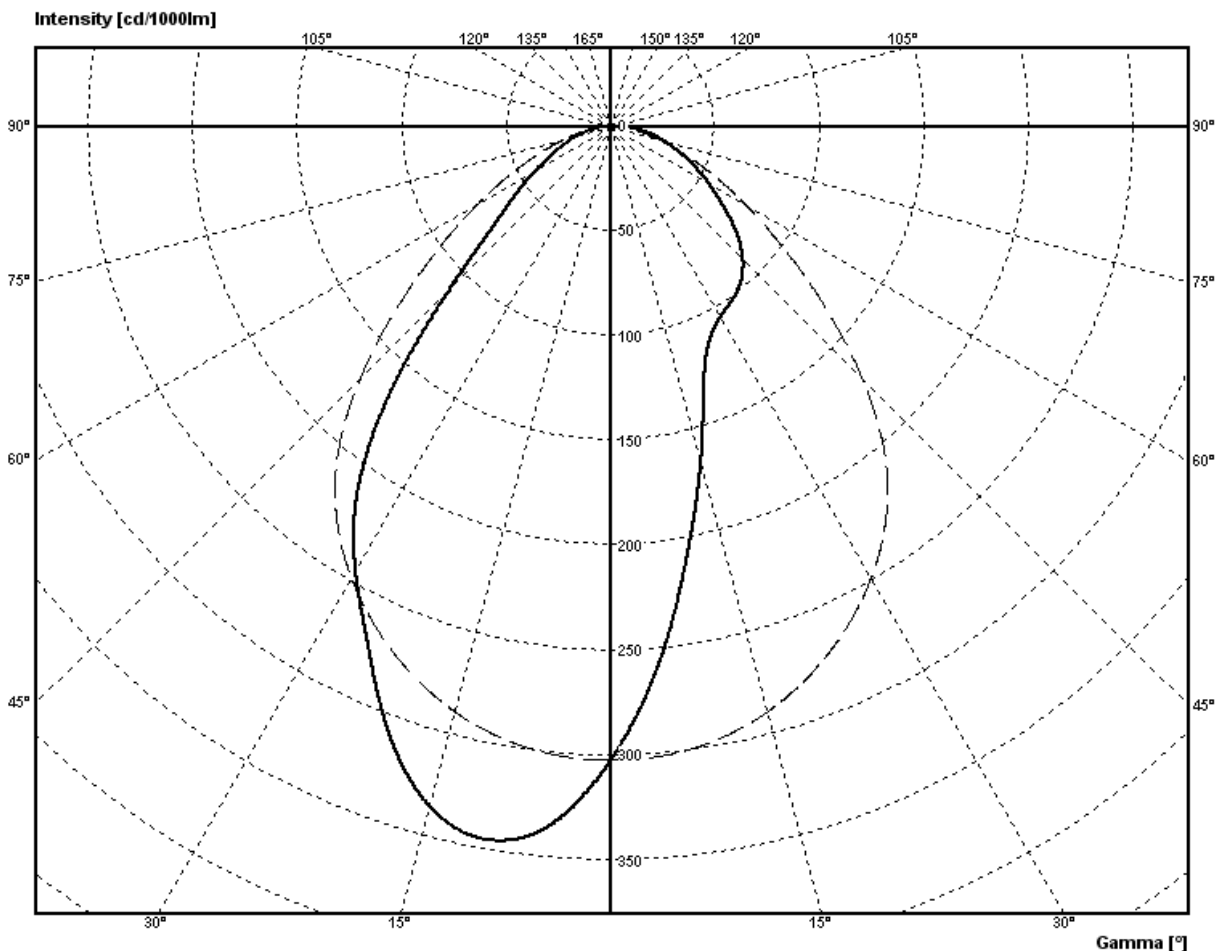
| | | | | | | | | | | |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| C-planes: | 0,0° | 15,0° | 30,0° | 45,0° | 60,0° | 75,0° | 90,0° | 105,0° | 120,0° | 135,0° |
| | 150,0° | 165,0° | 180,0° | 195,0° | 210,0° | 225,0° | 240,0° | 255,0° | 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 L2804 MID+INT ASYM 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 | 16,5 | 18,0 | 16,9 | 18,3 | 18,6 | 20,4 | 21,8 | 20,7 | 22,2 | 22,5 |
| 2H | 3H | 17,1 | 18,4 | 17,4 | 18,7 | 19,1 | 21,1 | 22,5 | 21,5 | 22,8 | 23,2 |
| 2H | 4H | 17,3 | 18,5 | 17,7 | 18,9 | 19,2 | 21,4 | 22,7 | 21,8 | 23,0 | 23,4 |
| 2H | 6H | 17,4 | 18,6 | 17,8 | 19,0 | 19,4 | 21,7 | 22,8 | 22,1 | 23,2 | 23,6 |
| 2H | 8H | 17,4 | 18,6 | 17,8 | 18,9 | 19,3 | 21,7 | 22,8 | 22,1 | 23,2 | 23,6 |
| 2H | 12H | 17,4 | 18,5 | 17,8 | 18,9 | 19,3 | 21,7 | 22,8 | 22,1 | 23,2 | 23,6 |
| 4H | 2H | 17,0 | 18,3 | 17,4 | 18,7 | 19,0 | 20,4 | 21,6 | 20,8 | 22,0 | 22,4 |
| 4H | 3H | 17,7 | 18,8 | 18,1 | 19,2 | 19,6 | 21,3 | 22,3 | 21,7 | 22,7 | 23,1 |
| 4H | 4H | 18,1 | 19,0 | 18,5 | 19,4 | 19,9 | 21,7 | 22,6 | 22,1 | 23,0 | 23,5 |
| 4H | 6H | 18,2 | 19,1 | 18,7 | 19,5 | 20,0 | 21,9 | 22,7 | 22,4 | 23,2 | 23,6 |
| 4H | 8H | 18,3 | 19,1 | 18,8 | 19,5 | 20,0 | 22,0 | 22,8 | 22,5 | 23,2 | 23,7 |
| 4H | 12H | 18,3 | 19,1 | 18,8 | 19,5 | 20,0 | 22,1 | 22,8 | 22,6 | 23,2 | 23,7 |
| 8H | 4H | 18,2 | 19,0 | 18,7 | 19,4 | 19,9 | 21,6 | 22,4 | 22,1 | 22,8 | 23,3 |
| 8H | 6H | 18,5 | 19,1 | 18,9 | 19,6 | 20,1 | 21,9 | 22,6 | 22,4 | 23,0 | 23,5 |
| 8H | 8H | 18,6 | 19,2 | 19,1 | 19,7 | 20,2 | 22,1 | 22,6 | 22,6 | 23,1 | 23,6 |
| 8H | 12H | 18,7 | 19,2 | 19,2 | 19,7 | 20,2 | 22,1 | 22,6 | 22,7 | 23,1 | 23,6 |
| 12H | 4H | 18,2 | 18,9 | 18,7 | 19,4 | 19,9 | 21,6 | 22,3 | 22,1 | 22,8 | 23,3 |
| 12H | 6H | 18,5 | 19,1 | 19,1 | 19,6 | 20,1 | 21,9 | 22,5 | 22,4 | 23,0 | 23,5 |
| 12H | 8H | 18,7 | 19,1 | 19,2 | 19,6 | 20,2 | 22,1 | 22,5 | 22,6 | 23,0 | 23,6 |

UGR values are corrected for lamp flux of 12470 lm by 8,8

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Luminance [cd/m²] REBA 50 /E EXT LINE L2804 MID+INT ASYM K3 840 HO / Direct im
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 | 4757,16 | 4894,23 | 5163,93 | 5855,97 | 7447,02 | 12052,0 | 22576,6 | 18520,1 | 14632,1 |
| 50,00 | 4116,79 | 4098,32 | 4351,82 | 4951,42 | 6382,00 | 9835,08 | 19374,6 | 14944,6 | 11482,2 |
| 55,00 | 3406,85 | 3361,95 | 3706,24 | 4148,52 | 5393,46 | 7981,14 | 16251,8 | 11653,9 | 8609,32 |
| 60,00 | 2814,42 | 2742,64 | 3133,91 | 3457,28 | 4499,83 | 6472,44 | 13597,5 | 8859,07 | 6307,33 |
| 65,00 | 2308,51 | 2226,54 | 2561,19 | 2810,81 | 3657,76 | 5119,27 | 11312,9 | 6519,23 | 4395,21 |
| 70,00 | 1837,98 | 1784,97 | 2026,62 | 2228,68 | 2856,89 | 4019,25 | 9336,17 | 4679,01 | 3011,59 |
| 75,00 | 1429,38 | 1364,95 | 1544,80 | 1715,04 | 2175,39 | 3130,45 | 7778,60 | 3331,88 | 2087,94 |
| 80,00 | 1052,32 | 947,58 | 1089,94 | 1216,62 | 1535,75 | 2255,24 | 6526,88 | 2255,24 | 1406,79 |
| 85,00 | 648,64 | 501,40 | 591,19 | 657,15 | 828,30 | 1262,23 | 4892,37 | 1229,30 | 770,95 |

| G/C [cd/ | 135,00 | 150,00 | 165,00 | 180,00 | 195,00 | 210,00 | 225,00 | 240,00 | 255,00 |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 45,00 | 11515,7 | 9337,79 | 7938,75 | 5769,82 | 7938,75 | 9337,79 | 11515,7 | 14632,1 | 18520,1 |
| 50,00 | 8576,43 | 6366,55 | 5188,26 | 3832,67 | 5188,26 | 6366,55 | 8576,43 | 11482,2 | 14944,6 |
| 55,00 | 5980,10 | 4296,02 | 3599,86 | 2854,39 | 3599,86 | 4296,02 | 5980,10 | 8609,32 | 11653,9 |
| 60,00 | 4061,05 | 3106,96 | 2683,08 | 2152,54 | 2683,08 | 3106,96 | 4061,05 | 6307,33 | 8859,07 |
| 65,00 | 2818,67 | 2274,33 | 2011,47 | 1618,27 | 2011,47 | 2274,33 | 2818,67 | 4395,21 | 6519,23 |
| 70,00 | 2038,23 | 1702,22 | 1521,24 | 1225,32 | 1521,24 | 1702,22 | 2038,23 | 3011,59 | 4679,01 |
| 75,00 | 1495,92 | 1275,36 | 1140,75 | 916,73 | 1140,75 | 1275,36 | 1495,92 | 2087,94 | 3331,88 |
| 80,00 | 1044,08 | 895,84 | 797,61 | 579,09 | 797,61 | 895,84 | 1044,08 | 1406,79 | 2255,24 |
| 85,00 | 586,74 | 520,72 | 462,28 | 298,38 | 462,28 | 520,72 | 586,74 | 770,95 | 1229,30 |

| G/C [cd/ | 270,00 | 285,00 | 300,00 | 315,00 | 330,00 | 345,00 |
|----------|---------|---------|---------|---------|---------|---------|
| 45,00 | 22576,6 | 12052,0 | 7447,02 | 5855,97 | 5163,93 | 4894,23 |
| 50,00 | 19374,6 | 9835,08 | 6382,00 | 4951,42 | 4351,82 | 4098,32 |
| 55,00 | 16251,8 | 7981,14 | 5393,46 | 4148,52 | 3706,24 | 3361,95 |
| 60,00 | 13597,5 | 6472,44 | 4499,83 | 3457,28 | 3133,91 | 2742,64 |
| 65,00 | 11312,9 | 5119,27 | 3657,76 | 2810,81 | 2561,19 | 2226,54 |
| 70,00 | 9336,17 | 4019,25 | 2856,89 | 2228,68 | 2026,62 | 1784,97 |
| 75,00 | 7778,60 | 3130,45 | 2175,39 | 1715,04 | 1544,80 | 1364,95 |
| 80,00 | 6526,88 | 2255,24 | 1535,75 | 1216,62 | 1089,94 | 947,58 |
| 85,00 | 4892,37 | 1262,23 | 828,30 | 657,15 | 591,19 | 501,40 |

HEADQUARTERS

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