

PHOTOMETRIC RESULTS

| | | | |
|-------------------|--|----------------------|------------------|
| Name: | REBA 50 /E EXT LINE L1969 SRT/END+INT ASYM 840 HO | | |
| Number: | 90506-83+90500L007 | Diameter: | 0 mm |
| Report: | 23-01-2020 | Length: | 1969 mm |
| Meas.-no.: | 01 | Width: | 62 mm |
| Lamp type: | LED 840 - 01 | Height: | 72 mm |
| Number: | 1 | Power: | 57,16 W |
| Lamp flux: | 8729,00 lm | Operator: | INDEL AGUE GROUP |
| Date: | 23-01-2020 15:20:22 | Output ratio: | 56,7 % |

Protocol

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

| | | |
|--|------------|----------|
| Divergences in the plane through maximum intensity: | Horizontal | Vertical |
| One half peak divergence | 94,2° | 54,4° |
| Half peak side angle (left) | -47,1° | -39,9° |
| Half peak side angle (right) | 47,1° | 14,5° |
| One tenth peak divergence | 141,1° | 130,7° |
| Tenth peak side angle (left) | -70,6° | -62,4° |
| Tenth peak side angle (right) | 70,6° | 68,3° |

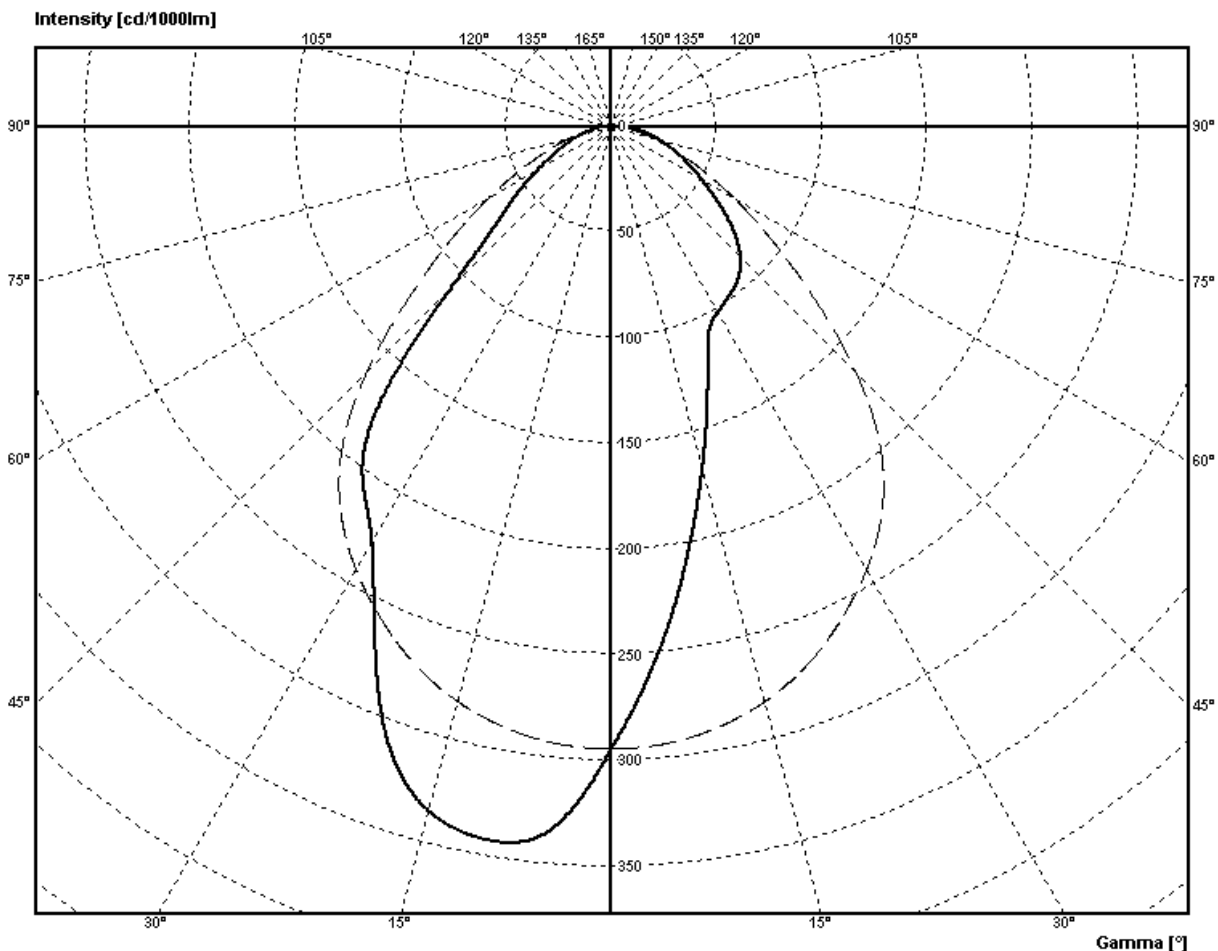
| | | | | | | | | | | |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| C-planes: | 0,0° | 15,0° | 30,0° | 45,0° | 60,0° | 75,0° | 90,0° | 105,0° | 120,0° | 135,0° |
| | 150,0° | 165,0° | 180,0° | 195,0° | 210,0° | 225,0° | 240,0° | 255,0° | 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 /E EXT LINE L1969 SRT/END+INT ASYM 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 | 16,4 | 17,8 | 16,7 | 18,1 | 18,5 | 20,0 | 21,5 | 20,4 | 21,8 | 22,1 |
| 2H | 3H | 16,9 | 18,2 | 17,2 | 18,5 | 18,9 | 20,7 | 22,0 | 21,1 | 22,4 | 22,7 |
| 2H | 4H | 17,1 | 18,3 | 17,5 | 18,7 | 19,0 | 20,9 | 22,2 | 21,3 | 22,5 | 22,9 |
| 2H | 6H | 17,2 | 18,3 | 17,6 | 18,7 | 19,1 | 21,2 | 22,3 | 21,6 | 22,7 | 23,1 |
| 2H | 8H | 17,2 | 18,3 | 17,6 | 18,7 | 19,1 | 21,2 | 22,3 | 21,6 | 22,7 | 23,1 |
| 2H | 12H | 17,2 | 18,2 | 17,6 | 18,6 | 19,0 | 21,2 | 22,2 | 21,6 | 22,6 | 23,0 |
| 4H | 2H | 16,8 | 18,1 | 17,2 | 18,4 | 18,8 | 20,0 | 21,3 | 20,4 | 21,6 | 22,0 |
| 4H | 3H | 17,5 | 18,5 | 17,9 | 18,9 | 19,3 | 20,8 | 21,9 | 21,2 | 22,3 | 22,7 |
| 4H | 4H | 17,8 | 18,7 | 18,2 | 19,1 | 19,6 | 21,2 | 22,1 | 21,6 | 22,5 | 22,9 |
| 4H | 6H | 18,0 | 18,8 | 18,4 | 19,2 | 19,7 | 21,4 | 22,2 | 21,8 | 22,7 | 23,1 |
| 4H | 8H | 18,0 | 18,8 | 18,5 | 19,2 | 19,7 | 21,5 | 22,2 | 21,9 | 22,7 | 23,1 |
| 4H | 12H | 18,0 | 18,7 | 18,5 | 19,2 | 19,7 | 21,5 | 22,2 | 22,0 | 22,7 | 23,2 |
| 8H | 4H | 17,9 | 18,7 | 18,4 | 19,1 | 19,6 | 21,1 | 21,9 | 21,6 | 22,3 | 22,8 |
| 8H | 6H | 18,1 | 18,8 | 18,6 | 19,2 | 19,7 | 21,4 | 22,0 | 21,9 | 22,5 | 23,0 |
| 8H | 8H | 18,3 | 18,8 | 18,8 | 19,3 | 19,8 | 21,5 | 22,1 | 22,0 | 22,6 | 23,1 |
| 8H | 12H | 18,3 | 18,8 | 18,9 | 19,3 | 19,8 | 21,6 | 22,1 | 22,1 | 22,6 | 23,1 |
| 12H | 4H | 17,9 | 18,6 | 18,4 | 19,1 | 19,6 | 21,1 | 21,8 | 21,6 | 22,3 | 22,8 |
| 12H | 6H | 18,2 | 18,8 | 18,7 | 19,3 | 19,8 | 21,4 | 22,0 | 21,9 | 22,5 | 23,0 |
| 12H | 8H | 18,3 | 18,8 | 18,8 | 19,3 | 19,8 | 21,5 | 22,0 | 22,0 | 22,5 | 23,0 |

UGR values are corrected for lamp flux of 8729 lm by 7,5

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Luminance [cd/m²] REBA 50 /E EXT LINE L1969 SRT/END+INT ASYM 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 | 4633,63 | 4777,41 | 4958,81 | 5593,99 | 7235,52 | 11910,0 | 21579,3 | 17711,9 | 13796,6 |
| 50,00 | 3969,40 | 3910,93 | 4126,67 | 4640,82 | 5996,26 | 9390,48 | 17909,1 | 13930,2 | 10559,2 |
| 55,00 | 3227,92 | 3173,79 | 3515,60 | 3874,93 | 4938,55 | 7416,62 | 14758,9 | 10586,5 | 7767,92 |
| 60,00 | 2588,38 | 2519,47 | 2967,30 | 3224,26 | 4012,76 | 5892,43 | 12074,8 | 7886,05 | 5607,28 |
| 65,00 | 2094,07 | 2043,86 | 2363,48 | 2580,12 | 3250,41 | 4535,23 | 9747,87 | 5707,83 | 3971,37 |
| 70,00 | 1670,54 | 1656,17 | 1813,57 | 2017,92 | 2497,76 | 3505,73 | 7849,63 | 4058,77 | 2728,32 |
| 75,00 | 1280,84 | 1240,27 | 1365,92 | 1510,34 | 1885,77 | 2733,71 | 6573,59 | 2899,39 | 1906,12 |
| 80,00 | 949,00 | 834,89 | 953,70 | 1051,21 | 1322,89 | 1983,05 | 5484,70 | 1983,05 | 1279,28 |
| 85,00 | 551,01 | 422,13 | 502,49 | 560,34 | 702,51 | 1091,22 | 3953,30 | 1091,22 | 694,61 |

| G/C [cd/ | 135,00 | 150,00 | 165,00 | 180,00 | 195,00 | 210,00 | 225,00 | 240,00 | 255,00 |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 45,00 | 10877,4 | 9346,44 | 8108,81 | 5655,98 | 8108,81 | 9346,44 | 10877,4 | 13796,6 | 17711,9 |
| 50,00 | 8290,54 | 6213,04 | 5021,58 | 3686,91 | 5021,58 | 6213,04 | 8290,54 | 10559,2 | 13930,2 |
| 55,00 | 5670,63 | 4151,00 | 3455,55 | 2753,44 | 3455,55 | 4151,00 | 5670,63 | 7767,92 | 10586,5 |
| 60,00 | 3894,99 | 2988,31 | 2558,65 | 2041,94 | 2558,65 | 2988,31 | 3894,99 | 5607,28 | 7886,05 |
| 65,00 | 2687,83 | 2163,32 | 1909,45 | 1514,39 | 1909,45 | 2163,32 | 2687,83 | 3971,37 | 5707,83 |
| 70,00 | 1886,75 | 1591,77 | 1439,10 | 1133,32 | 1439,10 | 1591,77 | 1886,75 | 2728,32 | 4058,77 |
| 75,00 | 1384,48 | 1204,70 | 1071,33 | 836,31 | 1071,33 | 1204,70 | 1384,48 | 1906,12 | 2899,39 |
| 80,00 | 957,64 | 828,09 | 715,62 | 513,39 | 715,62 | 828,09 | 957,64 | 1279,28 | 1983,05 |
| 85,00 | 542,83 | 482,98 | 426,57 | 299,81 | 426,57 | 482,98 | 542,83 | 694,61 | 1091,22 |

| G/C [cd/ | 270,00 | 285,00 | 300,00 | 315,00 | 330,00 | 345,00 |
|----------|---------|---------|---------|---------|---------|---------|
| 45,00 | 21579,3 | 11910,0 | 7235,52 | 5593,99 | 4958,81 | 4777,41 |
| 50,00 | 17909,1 | 9390,48 | 5996,26 | 4640,82 | 4126,67 | 3910,93 |
| 55,00 | 14758,9 | 7416,62 | 4938,55 | 3874,93 | 3515,60 | 3173,79 |
| 60,00 | 12074,8 | 5892,43 | 4012,76 | 3224,26 | 2967,30 | 2519,47 |
| 65,00 | 9747,87 | 4535,23 | 3250,41 | 2580,12 | 2363,48 | 2043,86 |
| 70,00 | 7849,63 | 3505,73 | 2497,76 | 2017,92 | 1813,57 | 1656,17 |
| 75,00 | 6573,59 | 2733,71 | 1885,77 | 1510,34 | 1365,92 | 1240,27 |
| 80,00 | 5484,70 | 1983,05 | 1322,89 | 1051,21 | 953,70 | 834,89 |
| 85,00 | 3953,30 | 1091,22 | 702,51 | 560,34 | 502,49 | 422,13 |

HEADQUARTERS

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