

PHOTOMETRIC RESULTS

| | | | |
|-------------------|---|----------------------|------------------|
| Name: | REBA 65 EXT LINE L1687 SRT/END+INT SYM BLINE K3 830 HO | | |
| Number: | 90509-83+90501L006 | Diameter: | 0 mm |
| Report: | 21-01-2020 | Length: | 1687 mm |
| Meas.-no.: | 01 | Width: | 65 mm |
| Lamp type: | LED 830 - 01 | Height: | 82 mm |
| Number: | 01 | Power: | 43,57 W |
| Lamp flux: | 6480,00 lm | Operator: | INDEL AGUE GROUP |
| Date: | 21-01-2020 14:10:23 | Output ratio: | 66,5 % |

Protocol

LiTG-class: A40
UTE-class: 0,66 E
IES-class: 50 - 80 - 96 - 100 - 66
TM5-class: BZ4

Divergences in the plane through maximum intensity:

| | Horizontal | Vertical |
|-------------------------------|------------|----------|
| One half peak divergence | 102,7° | 98,6° |
| Half peak side angle (left) | -51,4° | -49,3° |
| Half peak side angle (right) | 51,4° | 49,3° |
| One tenth peak divergence | 157,4° | 158,4° |
| Tenth peak side angle (left) | -78,7° | -79,2° |
| Tenth peak side angle (right) | 78,7° | 79,2° |

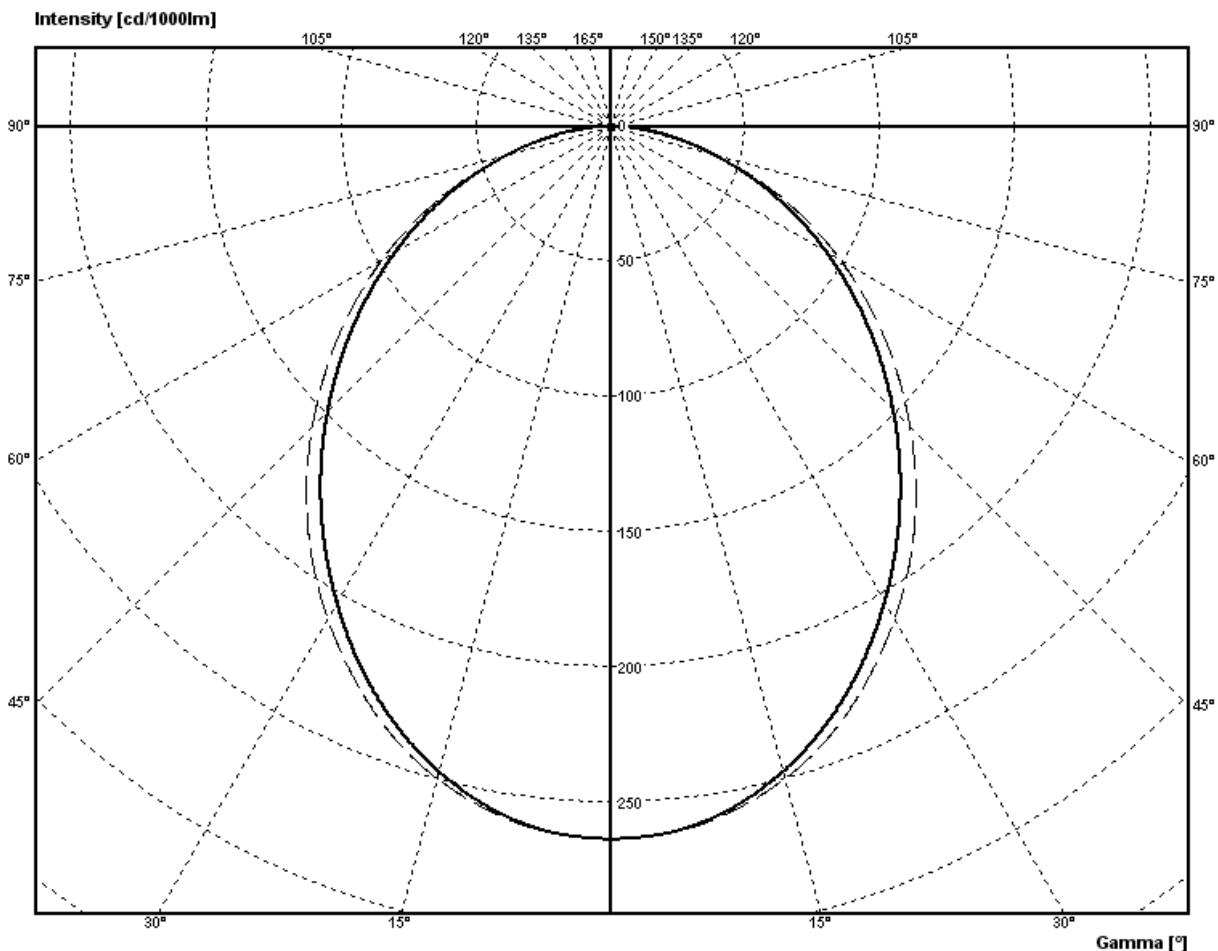
| | | | | | | | | | | |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| C-planes: | 0,0° | 15,0° | 30,0° | 45,0° | 60,0° | 75,0° | 90,0° | 105,0° | 120,0° | 135,0° |
| | 150,0° | 165,0° | 180,0° | 195,0° | 210,0° | 225,0° | 240,0° | 255,0° | 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 65 EXT LINE L1687 SRT/END+INT SYM BLINE K3 830 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 | 19,0 | 17,8 | 19,4 | 19,7 | 19,6 | 21,2 | 20,0 | 21,5 | 21,8 |
| 2H | 3H | 18,4 | 19,9 | 18,8 | 20,2 | 20,5 | 21,0 | 22,5 | 21,4 | 22,8 | 23,1 |
| 2H | 4H | 18,7 | 20,1 | 19,1 | 20,4 | 20,8 | 21,5 | 22,9 | 21,9 | 23,2 | 23,6 |
| 2H | 6H | 18,9 | 20,2 | 19,3 | 20,6 | 21,0 | 21,9 | 23,2 | 22,3 | 23,5 | 23,9 |
| 2H | 8H | 18,9 | 20,2 | 19,3 | 20,5 | 20,9 | 21,9 | 23,2 | 22,4 | 23,5 | 23,9 |
| 2H | 12H | 18,9 | 20,1 | 19,3 | 20,5 | 20,9 | 22,0 | 23,1 | 22,4 | 23,5 | 23,9 |
| 4H | 2H | 18,1 | 19,5 | 18,5 | 19,8 | 20,2 | 19,9 | 21,3 | 20,3 | 21,6 | 22,0 |
| 4H | 3H | 19,2 | 20,4 | 19,6 | 20,8 | 21,2 | 21,4 | 22,6 | 21,8 | 23,0 | 23,4 |
| 4H | 4H | 19,7 | 20,7 | 20,1 | 21,1 | 21,5 | 22,0 | 23,1 | 22,5 | 23,5 | 23,9 |
| 4H | 6H | 19,9 | 20,8 | 20,3 | 21,2 | 21,7 | 22,4 | 23,3 | 22,9 | 23,8 | 24,2 |
| 4H | 8H | 19,9 | 20,8 | 20,4 | 21,2 | 21,7 | 22,5 | 23,4 | 23,0 | 23,8 | 24,3 |
| 4H | 12H | 20,0 | 20,8 | 20,5 | 21,2 | 21,7 | 22,6 | 23,4 | 23,1 | 23,9 | 24,4 |
| 8H | 4H | 19,8 | 20,7 | 20,3 | 21,2 | 21,6 | 22,1 | 22,9 | 22,5 | 23,4 | 23,8 |
| 8H | 6H | 20,1 | 20,9 | 20,6 | 21,3 | 21,8 | 22,5 | 23,2 | 23,0 | 23,7 | 24,2 |
| 8H | 8H | 20,3 | 20,9 | 20,8 | 21,4 | 21,9 | 22,7 | 23,3 | 23,2 | 23,8 | 24,3 |
| 8H | 12H | 20,3 | 20,9 | 20,9 | 21,4 | 21,9 | 22,8 | 23,3 | 23,3 | 23,8 | 24,3 |
| 12H | 4H | 19,9 | 20,7 | 20,3 | 21,1 | 21,6 | 22,1 | 22,9 | 22,5 | 23,3 | 23,8 |
| 12H | 6H | 20,2 | 20,8 | 20,7 | 21,4 | 21,8 | 22,5 | 23,2 | 23,1 | 23,7 | 24,2 |
| 12H | 8H | 20,3 | 20,9 | 20,9 | 21,4 | 21,9 | 22,7 | 23,2 | 23,2 | 23,7 | 24,3 |

UGR values are corrected for lamp flux of 6480 lm by 6,5

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Luminance [cd/m²] REBA 65 EXT LINE L1687 SRT/END+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 | 5636,94 | 5742,36 | 6120,03 | 6840,28 | 8042,03 | 9981,62 | 13315,3 | 9981,62 | 8042,03 |
| 50,00 | 4872,31 | 4970,60 | 5323,05 | 6011,17 | 7164,96 | 9117,06 | 12720,2 | 9117,06 | 7164,96 |
| 55,00 | 4160,52 | 4252,13 | 4567,65 | 5208,35 | 6296,11 | 8224,55 | 12075,2 | 8224,55 | 6296,11 |
| 60,00 | 3485,08 | 3563,18 | 3846,61 | 4418,44 | 5436,57 | 7277,22 | 11363,9 | 7277,22 | 5436,57 |
| 65,00 | 2834,90 | 2899,67 | 3136,03 | 3634,27 | 4531,67 | 6265,50 | 10522,3 | 6265,50 | 4531,67 |
| 70,00 | 2195,44 | 2250,00 | 2442,27 | 2845,94 | 3600,76 | 5137,36 | 9468,18 | 5137,36 | 3600,76 |
| 75,00 | 1581,96 | 1615,78 | 1757,94 | 2048,10 | 2622,91 | 3842,59 | 8083,48 | 3842,59 | 2622,91 |
| 80,00 | 1008,59 | 1017,28 | 1110,77 | 1282,09 | 1649,61 | 2465,61 | 6187,58 | 2465,61 | 1649,61 |
| 85,00 | 536,52 | 527,51 | 566,69 | 628,57 | 794,75 | 1169,23 | 3858,00 | 1169,23 | 794,75 |

| G/C [cd/ | 135,00 | 150,00 | 165,00 | 180,00 | 195,00 | 210,00 | 225,00 | 240,00 | 255,00 |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 45,00 | 6840,28 | 6120,03 | 5742,36 | 5636,94 | 5742,36 | 6120,03 | 6840,28 | 8042,03 | 9981,62 |
| 50,00 | 6011,17 | 5323,05 | 4970,60 | 4872,31 | 4970,60 | 5323,05 | 6011,17 | 7164,96 | 9117,06 |
| 55,00 | 5208,35 | 4567,65 | 4252,13 | 4160,52 | 4252,13 | 4567,65 | 5208,35 | 6296,11 | 8224,55 |
| 60,00 | 4418,44 | 3846,61 | 3563,18 | 3485,08 | 3563,18 | 3846,61 | 4418,44 | 5436,57 | 7277,22 |
| 65,00 | 3634,27 | 3136,03 | 2899,67 | 2834,90 | 2899,67 | 3136,03 | 3634,27 | 4531,67 | 6265,50 |
| 70,00 | 2845,94 | 2442,27 | 2250,00 | 2195,44 | 2250,00 | 2442,27 | 2845,94 | 3600,76 | 5137,36 |
| 75,00 | 2048,10 | 1757,94 | 1615,78 | 1581,96 | 1615,78 | 1757,94 | 2048,10 | 2622,91 | 3842,59 |
| 80,00 | 1282,09 | 1110,77 | 1017,28 | 1008,59 | 1017,28 | 1110,77 | 1282,09 | 1649,61 | 2465,61 |
| 85,00 | 628,57 | 566,69 | 527,51 | 536,52 | 527,51 | 566,69 | 628,57 | 794,75 | 1169,23 |

| G/C [cd/ | 270,00 | 285,00 | 300,00 | 315,00 | 330,00 | 345,00 |
|----------|---------|---------|---------|---------|---------|---------|
| 45,00 | 13315,3 | 9981,62 | 8042,03 | 6840,28 | 6120,03 | 5742,36 |
| 50,00 | 12720,2 | 9117,06 | 7164,96 | 6011,17 | 5323,05 | 4970,60 |
| 55,00 | 12075,2 | 8224,55 | 6296,11 | 5208,35 | 4567,65 | 4252,13 |
| 60,00 | 11363,9 | 7277,22 | 5436,57 | 4418,44 | 3846,61 | 3563,18 |
| 65,00 | 10522,3 | 6265,50 | 4531,67 | 3634,27 | 3136,03 | 2899,67 |
| 70,00 | 9468,18 | 5137,36 | 3600,76 | 2845,94 | 2442,27 | 2250,00 |
| 75,00 | 8083,48 | 3842,59 | 2622,91 | 2048,10 | 1757,94 | 1615,78 |
| 80,00 | 6187,58 | 2465,61 | 1649,61 | 1282,09 | 1110,77 | 1017,28 |
| 85,00 | 3858,00 | 1169,23 | 794,75 | 628,57 | 566,69 | 527,51 |

HEADQUARTERS

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