

PHOTOMETRIC RESULTS

| | | | |
|-------------------|--|----------------------|------------------|
| Name: | REBA 50 /T EXT LINE L1420 SRT/END+INT SYM BFLEX K3 830 HO | | |
| Number: | 90507-83+90499L005 | Diameter: | 0 mm |
| Report: | 24-01-2020 | Length: | 1420 mm |
| Meas.-no.: | 01 | Width: | 70 mm |
| Lamp type: | LED 830 - 01 | Height: | 114 mm |
| Number: | 01 | Power: | 36,8 W |
| Lamp flux: | 5400,00 lm | Operator: | INDEL AGUE GROUP |
| Date: | 24-01-2020 16:10:00 | Output ratio: | 64,1 % |

Protocol

LiTG-class: A40
UTE-class: 0,64 E
IES-class: 46 - 76 - 93 - 100 - 64
TM5-class: BZ4/0.75/BZ5

Divergences in the plane through maximum intensity:

| | Horizontal | Vertical |
|-------------------------------|------------|----------|
| One half peak divergence | 109,5° | 113,4° |
| Half peak side angle (left) | -54,7° | -56,7° |
| Half peak side angle (right) | 54,7° | 56,7° |
| One tenth peak divergence | 163,4° | 175,4° |
| Tenth peak side angle (left) | -81,7° | -87,7° |
| Tenth peak side angle (right) | 81,7° | 87,7° |

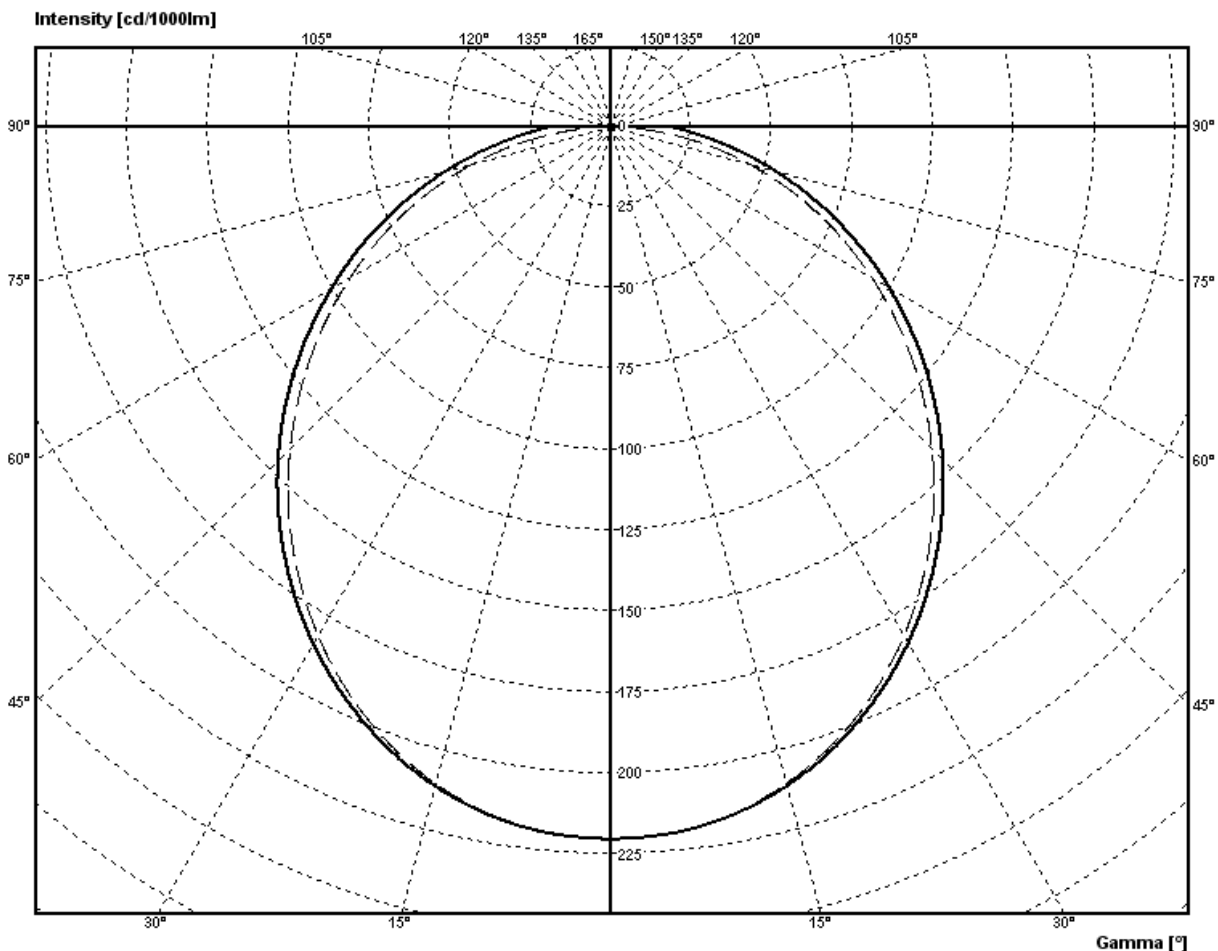
| | | | | | | | | | | |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| C-planes: | 0,0° | 15,0° | 30,0° | 45,0° | 60,0° | 75,0° | 90,0° | 105,0° | 120,0° | 135,0° |
| | 150,0° | 165,0° | 180,0° | 195,0° | 210,0° | 225,0° | 240,0° | 255,0° | 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 L1420 SRT/END+INT SYM BFLEX 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 | 17,1 | 18,8 | 17,5 | 19,1 | 19,4 | 19,4 | 21,1 | 19,7 | 21,4 | 21,7 |
| 2H | 3H | 18,3 | 19,8 | 18,7 | 20,2 | 20,5 | 21,0 | 22,5 | 21,3 | 22,8 | 23,2 |
| 2H | 4H | 18,8 | 20,2 | 19,2 | 20,6 | 20,9 | 21,6 | 23,1 | 22,0 | 23,4 | 23,8 |
| 2H | 6H | 19,1 | 20,5 | 19,5 | 20,8 | 21,2 | 22,2 | 23,5 | 22,6 | 23,9 | 24,2 |
| 2H | 8H | 19,2 | 20,5 | 19,6 | 20,9 | 21,3 | 22,3 | 23,6 | 22,7 | 23,9 | 24,3 |
| 2H | 12H | 19,3 | 20,6 | 19,7 | 20,9 | 21,4 | 22,3 | 23,6 | 22,8 | 24,0 | 24,4 |
| 4H | 2H | 17,8 | 19,3 | 18,2 | 19,6 | 20,0 | 19,7 | 21,1 | 20,1 | 21,5 | 21,8 |
| 4H | 3H | 19,2 | 20,4 | 19,6 | 20,8 | 21,2 | 21,4 | 22,6 | 21,8 | 23,0 | 23,4 |
| 4H | 4H | 19,8 | 20,9 | 20,2 | 21,3 | 21,7 | 22,2 | 23,3 | 22,6 | 23,7 | 24,1 |
| 4H | 6H | 20,2 | 21,2 | 20,6 | 21,6 | 22,1 | 22,7 | 23,7 | 23,2 | 24,1 | 24,6 |
| 4H | 8H | 20,4 | 21,3 | 20,8 | 21,7 | 22,2 | 22,9 | 23,8 | 23,4 | 24,3 | 24,7 |
| 4H | 12H | 20,5 | 21,4 | 21,0 | 21,8 | 22,3 | 23,0 | 23,9 | 23,5 | 24,3 | 24,8 |
| 8H | 4H | 20,0 | 21,0 | 20,5 | 21,4 | 21,9 | 22,2 | 23,2 | 22,7 | 23,6 | 24,1 |
| 8H | 6H | 20,6 | 21,3 | 21,0 | 21,8 | 22,3 | 22,8 | 23,6 | 23,3 | 24,1 | 24,6 |
| 8H | 8H | 20,9 | 21,5 | 21,4 | 22,0 | 22,5 | 23,1 | 23,8 | 23,6 | 24,3 | 24,8 |
| 8H | 12H | 21,1 | 21,7 | 21,6 | 22,2 | 22,7 | 23,3 | 23,9 | 23,8 | 24,4 | 24,9 |
| 12H | 4H | 20,1 | 20,9 | 20,5 | 21,4 | 21,9 | 22,2 | 23,1 | 22,7 | 23,5 | 24,0 |
| 12H | 6H | 20,7 | 21,4 | 21,2 | 21,9 | 22,3 | 22,9 | 23,6 | 23,4 | 24,1 | 24,6 |
| 12H | 8H | 20,9 | 21,5 | 21,5 | 22,0 | 22,5 | 23,2 | 23,8 | 23,7 | 24,3 | 24,8 |

UGR values are corrected for lamp flux of 5400 lm by 5,9

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Luminance [cd/m²] REBA 50 /T EXT LINE L1420 SRT/END+INT SYM BFLEX 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 | 4954,32 | 5035,20 | 5361,36 | 6028,23 | 7264,75 | 9686,25 | 15385,5 | 9686,25 | 7264,75 |
| 50,00 | 4307,48 | 4379,14 | 4674,67 | 5282,01 | 6437,78 | 8811,56 | 14862,7 | 8811,56 | 6437,78 |
| 55,00 | 3712,03 | 3778,31 | 4036,01 | 4582,40 | 5638,81 | 7885,53 | 14295,9 | 7885,53 | 5638,81 |
| 60,00 | 3153,89 | 3211,14 | 3436,77 | 3920,05 | 4877,28 | 6984,70 | 13680,0 | 6984,70 | 4877,28 |
| 65,00 | 2633,14 | 2676,03 | 2864,56 | 3269,04 | 4104,44 | 6010,80 | 12972,7 | 6010,80 | 4104,44 |
| 70,00 | 2133,22 | 2165,36 | 2319,42 | 2648,39 | 3343,55 | 5000,60 | 12087,4 | 5000,60 | 3343,55 |
| 75,00 | 1662,72 | 1682,87 | 1790,08 | 2028,30 | 2571,38 | 3908,65 | 10914,8 | 3908,65 | 2571,38 |
| 80,00 | 1235,73 | 1239,84 | 1303,56 | 1438,93 | 1791,16 | 2726,20 | 9070,42 | 2726,20 | 1791,16 |
| 85,00 | 869,06 | 863,98 | 881,26 | 924,84 | 1053,10 | 1472,51 | 5601,65 | 1472,51 | 1053,10 |

| G/C [cd/ | 135,00 | 150,00 | 165,00 | 180,00 | 195,00 | 210,00 | 225,00 | 240,00 | 255,00 |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 45,00 | 6028,23 | 5361,36 | 5035,20 | 4954,32 | 5035,20 | 5361,36 | 6028,23 | 7264,75 | 9686,25 |
| 50,00 | 5282,01 | 4674,67 | 4379,14 | 4307,48 | 4379,14 | 4674,67 | 5282,01 | 6437,78 | 8811,56 |
| 55,00 | 4582,40 | 4036,01 | 3778,31 | 3712,03 | 3778,31 | 4036,01 | 4582,40 | 5638,81 | 7885,53 |
| 60,00 | 3920,05 | 3436,77 | 3211,14 | 3153,89 | 3211,14 | 3436,77 | 3920,05 | 4877,28 | 6984,70 |
| 65,00 | 3269,04 | 2864,56 | 2676,03 | 2633,14 | 2676,03 | 2864,56 | 3269,04 | 4104,44 | 6010,80 |
| 70,00 | 2648,39 | 2319,42 | 2165,36 | 2133,22 | 2165,36 | 2319,42 | 2648,39 | 3343,55 | 5000,60 |
| 75,00 | 2028,30 | 1790,08 | 1682,87 | 1662,72 | 1682,87 | 1790,08 | 2028,30 | 2571,38 | 3908,65 |
| 80,00 | 1438,93 | 1303,56 | 1239,84 | 1235,73 | 1239,84 | 1303,56 | 1438,93 | 1791,16 | 2726,20 |
| 85,00 | 924,84 | 881,26 | 863,98 | 869,06 | 863,98 | 881,26 | 924,84 | 1053,10 | 1472,51 |

| G/C [cd/ | 270,00 | 285,00 | 300,00 | 315,00 | 330,00 | 345,00 |
|----------|---------|---------|---------|---------|---------|---------|
| 45,00 | 15385,5 | 9686,25 | 7264,75 | 6028,23 | 5361,36 | 5035,20 |
| 50,00 | 14862,7 | 8811,56 | 6437,78 | 5282,01 | 4674,67 | 4379,14 |
| 55,00 | 14295,9 | 7885,53 | 5638,81 | 4582,40 | 4036,01 | 3778,31 |
| 60,00 | 13680,0 | 6984,70 | 4877,28 | 3920,05 | 3436,77 | 3211,14 |
| 65,00 | 12972,7 | 6010,80 | 4104,44 | 3269,04 | 2864,56 | 2676,03 |
| 70,00 | 12087,4 | 5000,60 | 3343,55 | 2648,39 | 2319,42 | 2165,36 |
| 75,00 | 10914,8 | 3908,65 | 2571,38 | 2028,30 | 1790,08 | 1682,87 |
| 80,00 | 9070,42 | 2726,20 | 1791,16 | 1438,93 | 1303,56 | 1239,84 |
| 85,00 | 5601,65 | 1472,51 | 1053,10 | 924,84 | 881,26 | 863,98 |

HEADQUARTERS

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