

PHOTOMETRIC RESULTS

| | | | |
|------------|----------------------------------------------------|---------------|------------------|
| Name: | REBA 50 /E EXT LINE L0842 MID+INT SYM BLINE 840 HO | | |
| Number: | 90506+90497L003 | Diameter: | 0 mm |
| Report: | 21-01-2020 | Length: | 842 mm |
| Meas.-no.: | 01 | Width: | 62 mm |
| Lamp type: | LED 840 - 01 | Height: | 72 mm |
| Number: | 1 | Power: | 21,79 W |
| Lamp flux: | 3540,00 lm | Operator: | INDEL AGUE GROUP |
| Date: | 24-01-2020 10:17:57 | Output ratio: | 63,5 % |

Protocol

LiTG-class: A40
UTE-class: 0,63 E
IES-class: 50 - 80 - 95 - 100 - 63
TM5-class: BZ5/0.75/BZ4

| Divergences in the plane through maximum intensity: | Horizontal | Vertical |
|-----------------------------------------------------|------------|----------|
| One half peak divergence | 101,5° | 99,9° |
| Half peak side angle (left) | -50,7° | -50,0° |
| Half peak side angle (right) | 50,7° | 50,0° |
| One tenth peak divergence | 157,0° | 160,5° |
| Tenth peak side angle (left) | -78,5° | -80,3° |
| Tenth peak side angle (right) | 78,5° | 80,3° |

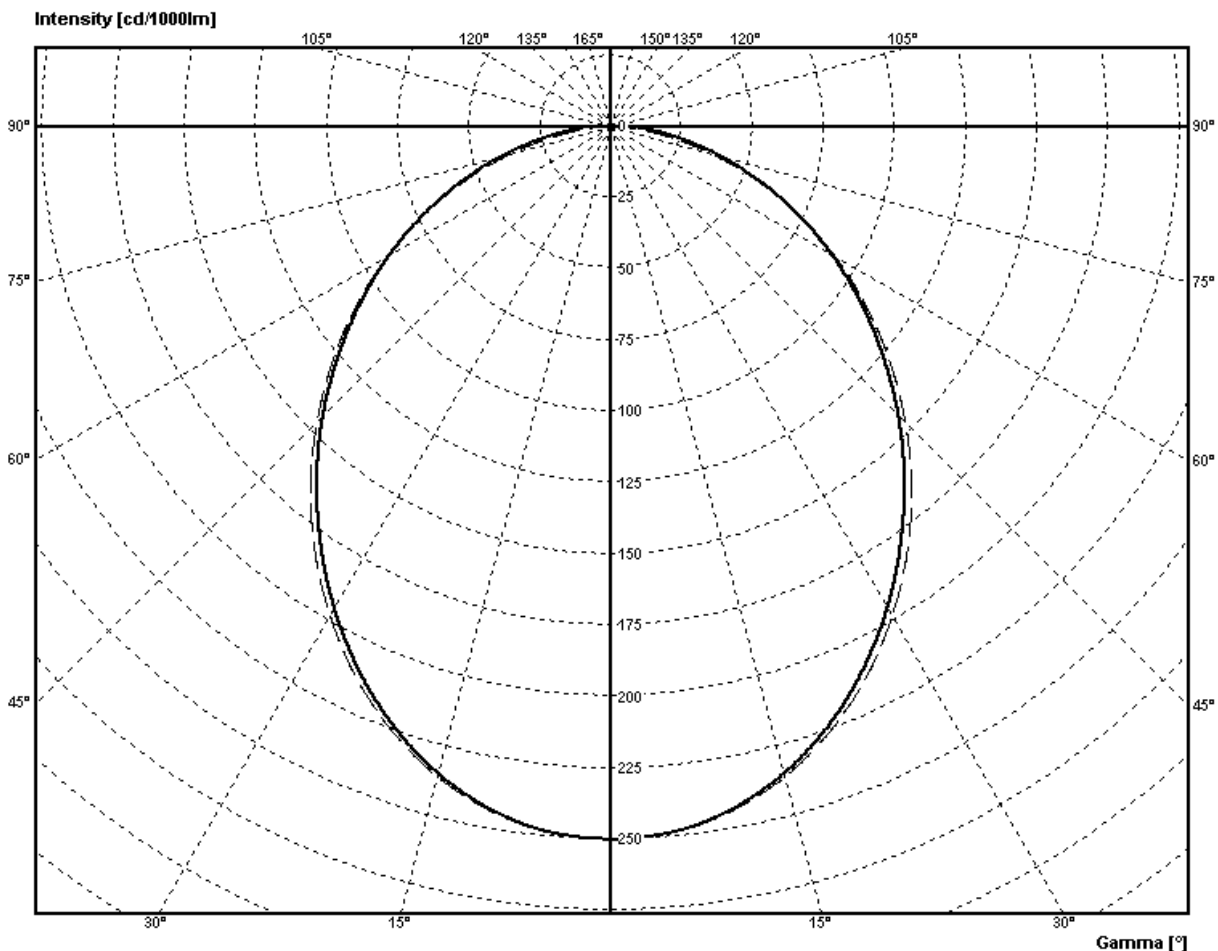
| | | | | | | | | | | |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| C-planes: | 0,0° | 15,0° | 30,0° | 45,0° | 60,0° | 75,0° | 90,0° | 105,0° | 120,0° | 135,0° |
| | 150,0° | 165,0° | 180,0° | 195,0° | 210,0° | 225,0° | 240,0° | 255,0° | 270,0° | 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 L0842 MID+INT SYM BLINE 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 | 18,3 | 19,9 | 18,6 | 20,2 | 20,5 | 20,3 | 21,9 | 20,7 | 22,2 | 22,6 |
| 2H | 3H | 19,3 | 20,7 | 19,6 | 21,1 | 21,4 | 21,7 | 23,1 | 22,0 | 23,5 | 23,8 |
| 2H | 4H | 19,6 | 21,0 | 20,0 | 21,3 | 21,7 | 22,2 | 23,6 | 22,6 | 23,9 | 24,3 |
| 2H | 6H | 19,8 | 21,1 | 20,2 | 21,5 | 21,9 | 22,5 | 23,8 | 22,9 | 24,2 | 24,5 |
| 2H | 8H | 19,9 | 21,1 | 20,3 | 21,5 | 21,9 | 22,6 | 23,8 | 23,0 | 24,2 | 24,6 |
| 2H | 12H | 19,9 | 21,1 | 20,3 | 21,4 | 21,8 | 22,6 | 23,8 | 23,0 | 24,2 | 24,6 |
| 4H | 2H | 18,9 | 20,3 | 19,3 | 20,7 | 21,0 | 20,6 | 22,0 | 21,0 | 22,3 | 22,7 |
| 4H | 3H | 20,0 | 21,2 | 20,5 | 21,6 | 22,0 | 22,1 | 23,3 | 22,5 | 23,6 | 24,0 |
| 4H | 4H | 20,5 | 21,6 | 21,0 | 22,0 | 22,4 | 22,7 | 23,7 | 23,1 | 24,2 | 24,6 |
| 4H | 6H | 20,8 | 21,7 | 21,2 | 22,2 | 22,6 | 23,1 | 24,0 | 23,5 | 24,4 | 24,9 |
| 4H | 8H | 20,9 | 21,7 | 21,3 | 22,2 | 22,6 | 23,2 | 24,0 | 23,6 | 24,5 | 24,9 |
| 4H | 12H | 20,9 | 21,7 | 21,4 | 22,2 | 22,7 | 23,2 | 24,0 | 23,7 | 24,5 | 25,0 |
| 8H | 4H | 20,7 | 21,6 | 21,2 | 22,0 | 22,5 | 22,7 | 23,6 | 23,2 | 24,0 | 24,5 |
| 8H | 6H | 21,0 | 21,8 | 21,5 | 22,3 | 22,7 | 23,1 | 23,9 | 23,6 | 24,4 | 24,8 |
| 8H | 8H | 21,2 | 21,9 | 21,7 | 22,4 | 22,9 | 23,4 | 24,0 | 23,9 | 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 | 20,7 | 21,5 | 21,2 | 22,0 | 22,5 | 22,7 | 23,5 | 23,2 | 24,0 | 24,5 |
| 12H | 6H | 21,1 | 21,8 | 21,6 | 22,3 | 22,8 | 23,2 | 23,8 | 23,7 | 24,3 | 24,8 |
| 12H | 8H | 21,3 | 21,8 | 21,8 | 22,3 | 22,8 | 23,4 | 23,9 | 23,9 | 24,4 | 24,9 |

UGR values are corrected for lamp flux of 3540 lm by 4,4

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Luminance [cd/m²] REBA 50 /E EXT LINE L0842 MID+INT SYM BLINE 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 | 7203,33 | 7284,23 | 7741,47 | 8624,31 | 10138,6 | 12682,6 | 17393,3 | 12682,6 | 10138,6 |
| 50,00 | 6195,86 | 6279,77 | 6707,47 | 7526,10 | 8959,33 | 11485,7 | 16475,6 | 11485,7 | 8959,33 |
| 55,00 | 5281,88 | 5353,55 | 5735,71 | 6480,57 | 7818,25 | 10260,2 | 15491,5 | 10260,2 | 7818,25 |
| 60,00 | 4419,64 | 4480,77 | 4813,90 | 5469,87 | 6689,35 | 8987,40 | 14409,5 | 8987,40 | 6689,35 |
| 65,00 | 3594,15 | 3643,88 | 3921,21 | 4489,06 | 5545,06 | 7638,13 | 13142,9 | 7638,13 | 5545,06 |
| 70,00 | 2806,45 | 2846,49 | 3061,57 | 3509,77 | 4373,50 | 6190,36 | 11603,1 | 6190,36 | 4373,50 |
| 75,00 | 2059,49 | 2081,56 | 2240,96 | 2546,18 | 3197,39 | 4606,23 | 9665,20 | 4606,23 | 3197,39 |
| 80,00 | 1363,93 | 1369,79 | 1465,51 | 1653,01 | 2067,78 | 2978,68 | 7140,15 | 2978,68 | 2067,78 |
| 85,00 | 761,73 | 762,32 | 799,24 | 867,79 | 1035,50 | 1435,83 | 4025,56 | 1435,83 | 1035,50 |

| G/C [cd/ | 135,00 | 150,00 | 165,00 | 180,00 | 195,00 | 210,00 | 225,00 | 240,00 | 255,00 |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 45,00 | 8624,31 | 7741,47 | 7284,23 | 7203,33 | 7284,23 | 7741,47 | 8624,31 | 10138,6 | 12682,6 |
| 50,00 | 7526,10 | 6707,47 | 6279,77 | 6195,86 | 6279,77 | 6707,47 | 7526,10 | 8959,33 | 11485,7 |
| 55,00 | 6480,57 | 5735,71 | 5353,55 | 5281,88 | 5353,55 | 5735,71 | 6480,57 | 7818,25 | 10260,2 |
| 60,00 | 5469,87 | 4813,90 | 4480,77 | 4419,64 | 4480,77 | 4813,90 | 5469,87 | 6689,35 | 8987,40 |
| 65,00 | 4489,06 | 3921,21 | 3643,88 | 3594,15 | 3643,88 | 3921,21 | 4489,06 | 5545,06 | 7638,13 |
| 70,00 | 3509,77 | 3061,57 | 2846,49 | 2806,45 | 2846,49 | 3061,57 | 3509,77 | 4373,50 | 6190,36 |
| 75,00 | 2546,18 | 2240,96 | 2081,56 | 2059,49 | 2081,56 | 2240,96 | 2546,18 | 3197,39 | 4606,23 |
| 80,00 | 1653,01 | 1465,51 | 1369,79 | 1363,93 | 1369,79 | 1465,51 | 1653,01 | 2067,78 | 2978,68 |
| 85,00 | 867,79 | 799,24 | 762,32 | 761,73 | 762,32 | 799,24 | 867,79 | 1035,50 | 1435,83 |

| G/C [cd/ | 270,00 | 285,00 | 300,00 | 315,00 | 330,00 | 345,00 |
|----------|---------|---------|---------|---------|---------|---------|
| 45,00 | 17393,3 | 12682,6 | 10138,6 | 8624,31 | 7741,47 | 7284,23 |
| 50,00 | 16475,6 | 11485,7 | 8959,33 | 7526,10 | 6707,47 | 6279,77 |
| 55,00 | 15491,5 | 10260,2 | 7818,25 | 6480,57 | 5735,71 | 5353,55 |
| 60,00 | 14409,5 | 8987,40 | 6689,35 | 5469,87 | 4813,90 | 4480,77 |
| 65,00 | 13142,9 | 7638,13 | 5545,06 | 4489,06 | 3921,21 | 3643,88 |
| 70,00 | 11603,1 | 6190,36 | 4373,50 | 3509,77 | 3061,57 | 2846,49 |
| 75,00 | 9665,20 | 4606,23 | 3197,39 | 2546,18 | 2240,96 | 2081,56 |
| 80,00 | 7140,15 | 2978,68 | 2067,78 | 1653,01 | 1465,51 | 1369,79 |
| 85,00 | 4025,56 | 1435,83 | 1035,50 | 867,79 | 799,24 | 762,32 |

HEADQUARTERS

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