

PHOTOMETRIC RESULTS

| | | | |
|-------------------|---|----------------------|------------------|
| Name: | REBA 65 EXT LINE L2244 MID+INT ASYM 840 HO | | |
| Number: | 90509+90504L008 | Diameter: | 0 mm |
| Report: | 22-01-2020 | Length: | 2244 mm |
| Meas.-no.: | 01 | Width: | 65 mm |
| Lamp type: | LED 840 - 01 | Height: | 82 mm |
| Number: | 01 | Power: | 64,23 W |
| Lamp flux: | 9976,00 lm | Operator: | INDEL AGUE GROUP |
| Date: | 22-01-2020 16:55:34 | Output ratio: | 58,7 % |

Protocol

LiTG-class: A50
UTE-class: 0,59 D
IES-class: 59 - 87 - 97 - 100 - 59
TM5-class: BZ3

| | | |
|--|------------|----------|
| Divergences in the plane through maximum intensity: | Horizontal | Vertical |
| One half peak divergence | 97,2° | 54,9° |
| Half peak side angle (left) | -48,6° | -39,7° |
| Half peak side angle (right) | 48,6° | 15,2° |
| One tenth peak divergence | 144,6° | 131,2° |
| Tenth peak side angle (left) | -72,3° | -64,7° |
| Tenth peak side angle (right) | 72,3° | 66,6° |

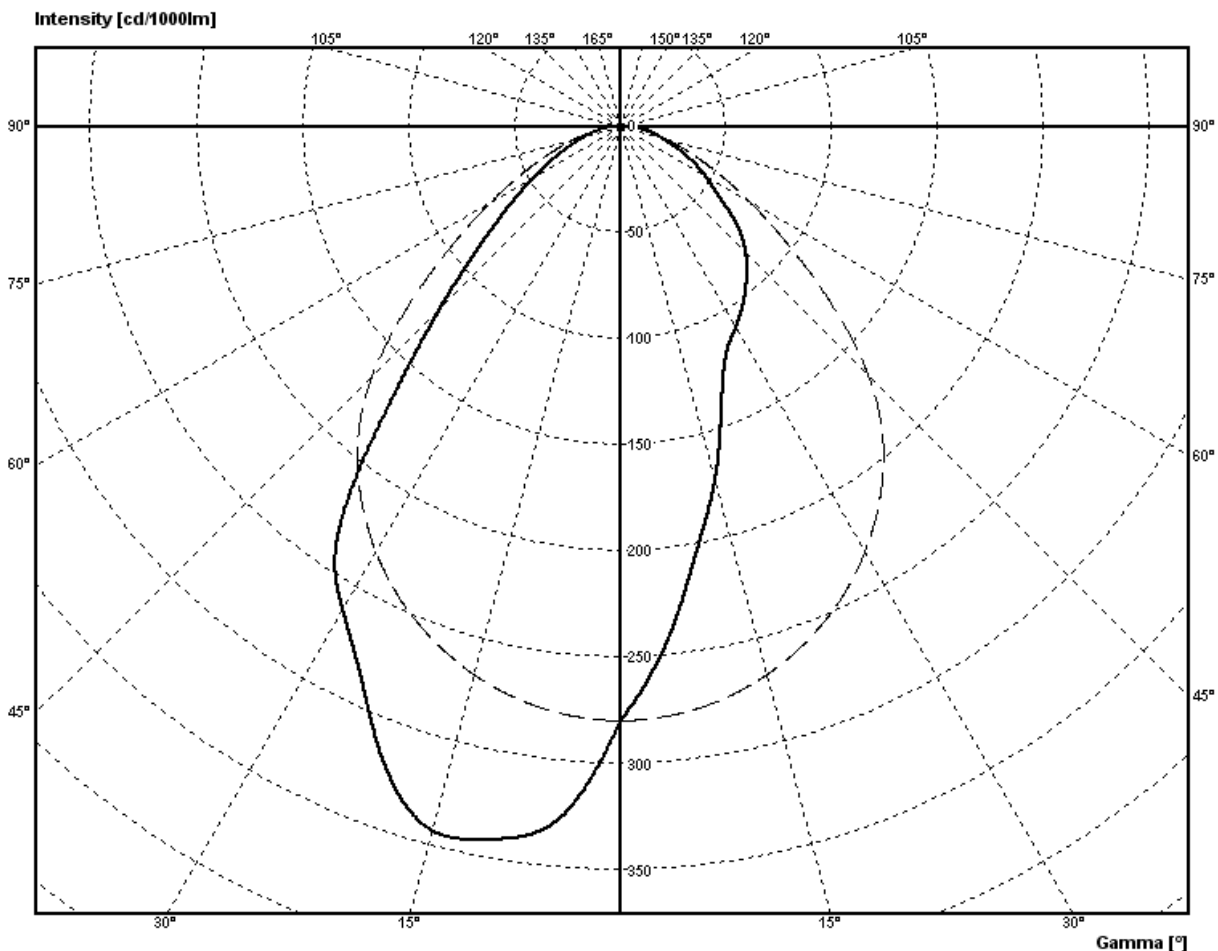
| | | | | | | | | | | |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| C-planes: | 0,0° | 15,0° | 30,0° | 45,0° | 60,0° | 75,0° | 90,0° | 105,0° | 120,0° | 135,0° |
| | 150,0° | 165,0° | 180,0° | 195,0° | 210,0° | 225,0° | 240,0° | 255,0° | 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 L2244 MID+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 | 15,9 | 17,4 | 16,3 | 17,7 | 18,0 | 19,5 | 21,0 | 19,9 | 21,3 | 21,6 |
| 2H | 3H | 16,4 | 17,7 | 16,8 | 18,1 | 18,4 | 20,2 | 21,6 | 20,6 | 21,9 | 22,3 |
| 2H | 4H | 16,6 | 17,8 | 17,0 | 18,2 | 18,5 | 20,5 | 21,7 | 20,9 | 22,1 | 22,5 |
| 2H | 6H | 16,7 | 17,8 | 17,1 | 18,2 | 18,6 | 20,7 | 21,8 | 21,1 | 22,2 | 22,6 |
| 2H | 8H | 16,7 | 17,8 | 17,1 | 18,2 | 18,6 | 20,7 | 21,8 | 21,1 | 22,2 | 22,6 |
| 2H | 12H | 16,7 | 17,7 | 17,1 | 18,1 | 18,5 | 20,7 | 21,8 | 21,1 | 22,2 | 22,6 |
| 4H | 2H | 16,4 | 17,7 | 16,8 | 18,1 | 18,4 | 19,6 | 20,8 | 19,9 | 21,2 | 21,5 |
| 4H | 3H | 17,0 | 18,1 | 17,5 | 18,5 | 18,9 | 20,4 | 21,4 | 20,8 | 21,8 | 22,2 |
| 4H | 4H | 17,3 | 18,3 | 17,8 | 18,7 | 19,1 | 20,7 | 21,7 | 21,2 | 22,1 | 22,5 |
| 4H | 6H | 17,5 | 18,3 | 17,9 | 18,7 | 19,2 | 20,9 | 21,8 | 21,4 | 22,2 | 22,7 |
| 4H | 8H | 17,5 | 18,3 | 18,0 | 18,7 | 19,2 | 21,0 | 21,8 | 21,5 | 22,2 | 22,7 |
| 4H | 12H | 17,5 | 18,3 | 18,0 | 18,7 | 19,2 | 21,1 | 21,8 | 21,6 | 22,2 | 22,7 |
| 8H | 4H | 17,4 | 18,2 | 17,9 | 18,7 | 19,1 | 20,7 | 21,4 | 21,1 | 21,9 | 22,4 |
| 8H | 6H | 17,6 | 18,3 | 18,1 | 18,8 | 19,3 | 20,9 | 21,6 | 21,4 | 22,0 | 22,5 |
| 8H | 8H | 17,8 | 18,3 | 18,3 | 18,9 | 19,3 | 21,1 | 21,6 | 21,6 | 22,2 | 22,6 |
| 8H | 12H | 17,8 | 18,3 | 18,4 | 18,8 | 19,3 | 21,2 | 21,6 | 21,7 | 22,1 | 22,6 |
| 12H | 4H | 17,5 | 18,2 | 17,9 | 18,6 | 19,1 | 20,7 | 21,4 | 21,1 | 21,8 | 22,3 |
| 12H | 6H | 17,7 | 18,3 | 18,2 | 18,8 | 19,3 | 21,0 | 21,5 | 21,5 | 22,0 | 22,5 |
| 12H | 8H | 17,8 | 18,3 | 18,3 | 18,8 | 19,3 | 21,1 | 21,5 | 21,6 | 22,1 | 22,6 |

UGR values are corrected for lamp flux of 9976 lm by 8,0

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| Lamp type: | LED 840 - 01 | Height: | 82 mm |
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| Date: | 22-01-2020 16:55:34 | Output ratio: | 58,7 % |

Luminance [cd/m²] REBA 65 EXT LINE L2244 MID+INT ASYM 840 HO / Direct in 15° ☉
/ 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 | 3690,98 | 3728,41 | 4003,39 | 4753,98 | 6136,64 | 9604,53 | 16426,6 | 14567,1 | 12617,4 |
| 50,00 | 3152,68 | 3061,85 | 3238,26 | 3917,25 | 5301,88 | 7835,31 | 14117,6 | 11934,6 | 10050,6 |
| 55,00 | 2475,60 | 2417,40 | 2683,37 | 3208,24 | 4339,51 | 6367,73 | 11610,6 | 9231,12 | 7380,39 |
| 60,00 | 2043,85 | 1956,28 | 2237,79 | 2630,70 | 3458,72 | 5157,39 | 9567,19 | 6991,55 | 5307,85 |
| 65,00 | 1655,78 | 1555,95 | 1773,97 | 2093,45 | 2711,48 | 4039,42 | 7887,87 | 5137,31 | 3688,81 |
| 70,00 | 1253,79 | 1213,03 | 1392,81 | 1611,99 | 2060,62 | 3059,01 | 6486,47 | 3717,76 | 2542,66 |
| 75,00 | 943,44 | 930,25 | 1057,92 | 1220,49 | 1551,55 | 2332,86 | 5308,52 | 2637,14 | 1749,74 |
| 80,00 | 705,59 | 637,33 | 738,40 | 847,44 | 1103,80 | 1659,42 | 4402,14 | 1775,20 | 1183,51 |
| 85,00 | 437,43 | 325,50 | 382,12 | 441,32 | 586,62 | 907,01 | 3169,92 | 975,03 | 674,27 |

| G/C [cd/ | 135,00 | 150,00 | 165,00 | 180,00 | 195,00 | 210,00 | 225,00 | 240,00 | 255,00 |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 45,00 | 10314,2 | 8134,16 | 6863,14 | 5245,07 | 6863,14 | 8134,16 | 10314,2 | 12617,4 | 14567,1 |
| 50,00 | 7463,79 | 5505,73 | 4780,50 | 3706,21 | 4780,50 | 5505,73 | 7463,79 | 10050,6 | 11934,6 |
| 55,00 | 5050,36 | 3909,66 | 3423,83 | 2727,97 | 3423,83 | 3909,66 | 5050,36 | 7380,39 | 9231,12 |
| 60,00 | 3626,10 | 2910,52 | 2517,07 | 1995,48 | 2517,07 | 2910,52 | 3626,10 | 5307,85 | 6991,55 |
| 65,00 | 2605,63 | 2150,81 | 1840,66 | 1484,07 | 1840,66 | 2150,81 | 2605,63 | 3688,81 | 5137,31 |
| 70,00 | 1852,52 | 1590,21 | 1392,62 | 1090,80 | 1392,62 | 1590,21 | 1852,52 | 2542,66 | 3717,76 |
| 75,00 | 1335,46 | 1164,09 | 1017,68 | 768,97 | 1017,68 | 1164,09 | 1335,46 | 1749,74 | 2637,14 |
| 80,00 | 884,90 | 805,89 | 677,39 | 537,60 | 677,39 | 805,89 | 884,90 | 1183,51 | 1775,20 |
| 85,00 | 531,59 | 491,29 | 448,05 | 366,88 | 448,05 | 491,29 | 531,59 | 674,27 | 975,03 |

| G/C [cd/ | 270,00 | 285,00 | 300,00 | 315,00 | 330,00 | 345,00 |
|----------|---------|---------|---------|---------|---------|---------|
| 45,00 | 16426,6 | 9604,53 | 6136,64 | 4753,98 | 4003,39 | 3728,41 |
| 50,00 | 14117,6 | 7835,31 | 5301,88 | 3917,25 | 3238,26 | 3061,85 |
| 55,00 | 11610,6 | 6367,73 | 4339,51 | 3208,24 | 2683,37 | 2417,40 |
| 60,00 | 9567,19 | 5157,39 | 3458,72 | 2630,70 | 2237,79 | 1956,28 |
| 65,00 | 7887,87 | 4039,42 | 2711,48 | 2093,45 | 1773,97 | 1555,95 |
| 70,00 | 6486,47 | 3059,01 | 2060,62 | 1611,99 | 1392,81 | 1213,03 |
| 75,00 | 5308,52 | 2332,86 | 1551,55 | 1220,49 | 1057,92 | 930,25 |
| 80,00 | 4402,14 | 1659,42 | 1103,80 | 847,44 | 738,40 | 637,33 |
| 85,00 | 3169,92 | 907,01 | 586,62 | 441,32 | 382,12 | 325,50 |

HEADQUARTERS

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