

PHOTOMETRIC RESULTS

| | | | |
|-------------------|---|----------------------|------------------|
| Name: | REBA _E LED Line 30W bLINE [842mm] | | |
| Number: | 01 | Diameter: | 0 mm |
| Report: | 06-02-2017 | Length: | 842 mm |
| Meas.-no.: | 01 | Width: | 62 mm |
| Lamp type: | LED 840 - 01 | Height: | 85 mm |
| Number: | 1 | Power: | 30,27 W |
| Lamp flux: | 3870,00 lm | Operator: | INDEL AGUE GROUP |
| Date: | 06-02-2017 16:17:42 | Output ratio: | 57,7 % |

Protocol

LiTG-class: A40
UTE-class: 0,58 D
IES-class: 50 - 81 - 96 - 100 - 58
TM5-class: BZ4

Divergences in the plane through maximum intensity:

| | Horizontal | Vertical |
|--------------------------------------|------------|----------|
| One half peak divergence | 101,6° | 97,4° |
| Half peak side angle (left) | -50,8° | -48,7° |
| Half peak side angle (right) | 50,8° | 48,7° |
| One tenth peak divergence | 157,8° | 157,0° |
| Tenth peak side angle (left) | -78,9° | -78,5° |
| Tenth peak side angle (right) | 78,9° | 78,5° |

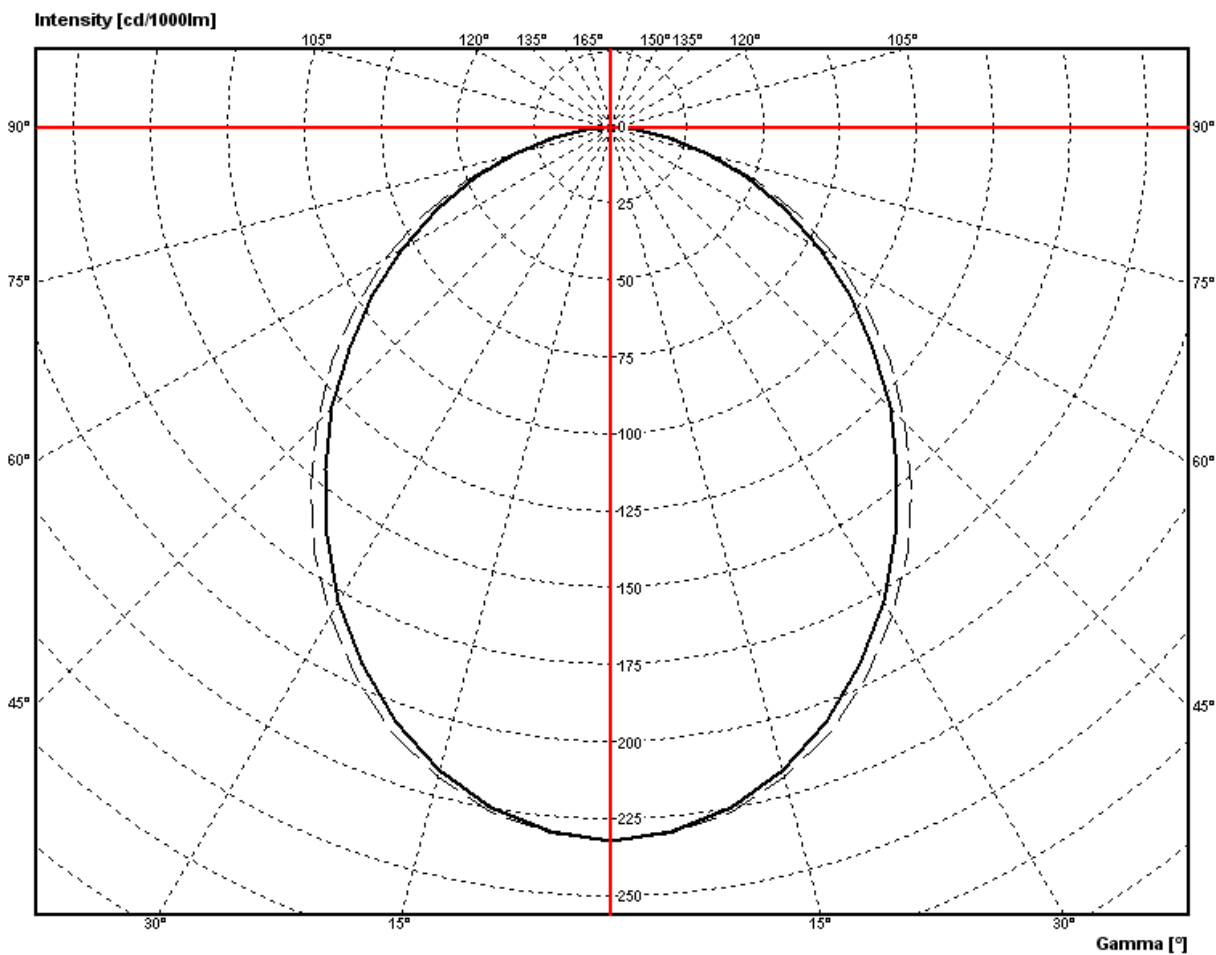
| | | | | | | | | | | |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| C-planes: | 0,0° | 15,0° | 30,0° | 45,0° | 60,0° | 75,0° | 90,0° | 105,0° | 120,0° | 135,0° |
| | 150,0° | 165,0° | 180,0° | 195,0° | 210,0° | 225,0° | 240,0° | 255,0° | 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 _E LED Line 30W bLINE [842mm] / 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 | 17,8 | 19,4 | 18,1 | 19,7 | 20,0 | 20,2 | 21,8 | 20,6 | 22,1 | 22,4 |
| 2H | 3H | 18,6 | 20,1 | 19,0 | 20,4 | 20,8 | 21,6 | 23,0 | 22,0 | 23,4 | 23,7 |
| 2H | 4H | 18,9 | 20,3 | 19,3 | 20,7 | 21,0 | 22,1 | 23,5 | 22,5 | 23,8 | 24,2 |
| 2H | 6H | 19,1 | 20,4 | 19,5 | 20,7 | 21,1 | 22,5 | 23,7 | 22,9 | 24,1 | 24,5 |
| 2H | 8H | 19,1 | 20,3 | 19,5 | 20,7 | 21,1 | 22,5 | 23,7 | 22,9 | 24,1 | 24,5 |
| 2H | 12H | 19,1 | 20,3 | 19,5 | 20,6 | 21,0 | 22,5 | 23,7 | 23,0 | 24,1 | 24,5 |
| 4H | 2H | 18,4 | 19,8 | 18,8 | 20,1 | 20,5 | 20,5 | 21,8 | 20,8 | 22,2 | 22,5 |
| 4H | 3H | 19,4 | 20,6 | 19,8 | 21,0 | 21,4 | 21,9 | 23,1 | 22,3 | 23,5 | 23,9 |
| 4H | 4H | 19,8 | 20,9 | 20,3 | 21,3 | 21,7 | 22,6 | 23,6 | 23,0 | 24,0 | 24,4 |
| 4H | 6H | 20,0 | 20,9 | 20,5 | 21,4 | 21,8 | 22,9 | 23,9 | 23,4 | 24,3 | 24,7 |
| 4H | 8H | 20,1 | 20,9 | 20,5 | 21,4 | 21,8 | 23,1 | 23,9 | 23,5 | 24,4 | 24,8 |
| 4H | 12H | 20,1 | 20,9 | 20,6 | 21,3 | 21,8 | 23,1 | 23,9 | 23,6 | 24,4 | 24,9 |
| 8H | 4H | 20,0 | 20,9 | 20,5 | 21,3 | 21,8 | 22,6 | 23,4 | 23,0 | 23,9 | 24,3 |
| 8H | 6H | 20,3 | 21,0 | 20,8 | 21,5 | 22,0 | 23,0 | 23,7 | 23,5 | 24,2 | 24,7 |
| 8H | 8H | 20,4 | 21,0 | 20,9 | 21,5 | 22,0 | 23,2 | 23,8 | 23,7 | 24,3 | 24,8 |
| 8H | 12H | 20,4 | 21,0 | 20,9 | 21,5 | 22,0 | 23,3 | 23,8 | 23,8 | 24,3 | 24,8 |
| 12H | 4H | 20,1 | 20,8 | 20,5 | 21,3 | 21,8 | 22,6 | 23,4 | 23,0 | 23,8 | 24,3 |
| 12H | 6H | 20,4 | 21,0 | 20,9 | 21,5 | 22,0 | 23,0 | 23,7 | 23,5 | 24,2 | 24,7 |
| 12H | 8H | 20,4 | 21,0 | 21,0 | 21,5 | 22,0 | 23,2 | 23,7 | 23,7 | 24,2 | 24,7 |

UGR values are corrected for lamp flux of 3870 lm by 4,7

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Luminance [cd/m²] REBA _E LED Line 30W bLINE [842mm] / 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 | 6371,18 | 6473,05 | 6955,78 | 7853,16 | 9433,31 | 12132,1 | 17411,2 | 12132,1 | 9433,31 |
| 50,00 | 5408,12 | 5505,04 | 5938,46 | 6768,76 | 8260,77 | 10910,7 | 16458,8 | 10910,7 | 8260,77 |
| 55,00 | 4545,13 | 4624,00 | 5009,27 | 5769,96 | 7138,06 | 9677,61 | 15453,0 | 9677,61 | 7138,06 |
| 60,00 | 3737,99 | 3809,32 | 4151,93 | 4812,35 | 6052,90 | 8438,69 | 14381,6 | 8438,69 | 6052,90 |
| 65,00 | 2980,18 | 3041,49 | 3323,20 | 3890,14 | 4960,84 | 7126,04 | 13104,4 | 7126,04 | 4960,84 |
| 70,00 | 2258,68 | 2309,58 | 2530,08 | 2979,94 | 3858,05 | 5734,91 | 11626,9 | 5734,91 | 3858,05 |
| 75,00 | 1583,58 | 1612,88 | 1779,13 | 2102,35 | 2762,11 | 4235,65 | 9728,62 | 4235,65 | 2762,11 |
| 80,00 | 963,41 | 972,93 | 1082,18 | 1276,42 | 1706,70 | 2694,10 | 7310,31 | 2694,10 | 1706,70 |
| 85,00 | 433,49 | 423,43 | 478,61 | 557,89 | 761,19 | 1233,63 | 4367,44 | 1233,63 | 761,19 |

| G/C [cd/ | 135,00 | 150,00 | 165,00 | 180,00 | 195,00 | 210,00 | 225,00 | 240,00 | 255,00 |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 45,00 | 7853,16 | 6955,78 | 6473,05 | 6371,18 | 6473,05 | 6955,78 | 7853,16 | 9433,31 | 12132,1 |
| 50,00 | 6768,76 | 5938,46 | 5505,04 | 5408,12 | 5505,04 | 5938,46 | 6768,76 | 8260,77 | 10910,7 |
| 55,00 | 5769,96 | 5009,27 | 4624,00 | 4545,13 | 4624,00 | 5009,27 | 5769,96 | 7138,06 | 9677,61 |
| 60,00 | 4812,35 | 4151,93 | 3809,32 | 3737,99 | 3809,32 | 4151,93 | 4812,35 | 6052,90 | 8438,69 |
| 65,00 | 3890,14 | 3323,20 | 3041,49 | 2980,18 | 3041,49 | 3323,20 | 3890,14 | 4960,84 | 7126,04 |
| 70,00 | 2979,94 | 2530,08 | 2309,58 | 2258,68 | 2309,58 | 2530,08 | 2979,94 | 3858,05 | 5734,91 |
| 75,00 | 2102,35 | 1779,13 | 1612,88 | 1583,58 | 1612,88 | 1779,13 | 2102,35 | 2762,11 | 4235,65 |
| 80,00 | 1276,42 | 1082,18 | 972,93 | 963,41 | 972,93 | 1082,18 | 1276,42 | 1706,70 | 2694,10 |
| 85,00 | 557,89 | 478,61 | 423,43 | 433,49 | 423,43 | 478,61 | 557,89 | 761,19 | 1233,63 |

| G/C [cd/ | 270,00 | 285,00 | 300,00 | 315,00 | 330,00 | 345,00 |
|----------|---------|---------|---------|---------|---------|---------|
| 45,00 | 17411,2 | 12132,1 | 9433,31 | 7853,16 | 6955,78 | 6473,05 |
| 50,00 | 16458,8 | 10910,7 | 8260,77 | 6768,76 | 5938,46 | 5505,04 |
| 55,00 | 15453,0 | 9677,61 | 7138,06 | 5769,96 | 5009,27 | 4624,00 |
| 60,00 | 14381,6 | 8438,69 | 6052,90 | 4812,35 | 4151,93 | 3809,32 |
| 65,00 | 13104,4 | 7126,04 | 4960,84 | 3890,14 | 3323,20 | 3041,49 |
| 70,00 | 11626,9 | 5734,91 | 3858,05 | 2979,94 | 2530,08 | 2309,58 |
| 75,00 | 9728,62 | 4235,65 | 2762,11 | 2102,35 | 1779,13 | 1612,88 |
| 80,00 | 7310,31 | 2694,10 | 1706,70 | 1276,42 | 1082,18 | 972,93 |
| 85,00 | 4367,44 | 1233,63 | 761,19 | 557,89 | 478,61 | 423,43 |

HEADQUARTERS

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