

## PHOTOMETRIC RESULTS

|                   |   |                      |                  |
|-------------------|---|----------------------|------------------|
| <b>Name:</b>      | <b>REBA 65 EXT LINE L2244 MID+INT SYM BGLARE 830 HO</b> |                      |                  |
| <b>Number:</b>    | 90509+90502L008   | <b>Diameter:</b>     | 0 mm             |
| <b>Report:</b>    | 21-01-2020  | <b>Length:</b>       | 2244 mm          |
| <b>Meas.-no.:</b> | 01  | <b>Width:</b>        | 65 mm            |
| <b>Lamp type:</b> | LED 830 - 01  | <b>Height:</b>       | 82 mm            |
| <b>Number:</b>    | 01  | <b>Power:</b>        | 57,62 W          |
| <b>Lamp flux:</b> | 8640,00 lm  | <b>Operator:</b>     | INDEL AGUE GROUP |
| <b>Date:</b>      | 21-01-2020 17:58:47                                     | <b>Output ratio:</b> | 62,6 %           |

## Protocol

**LiTG-class:** A50  
**UTE-class:** 0,63 C  
**IES-class:** 64 - 89 - 97 - 100 - 63  
**TM5-class:** BZ2/2.50/BZ3

## Divergences in the plane through maximum intensity:

|                               | Horizontal | Vertical |
|-------------------------------|------------|----------|
| One half peak divergence      | 79,8°      | 75,1°    |
| Half peak side angle (left)   | -39,9°     | -37,6°   |
| Half peak side angle (right)  | 39,9°      | 37,6°    |
| One tenth peak divergence     | 131,2°     | 136,3°   |
| Tenth peak side angle (left)  | -65,6°     | -68,2°   |
| Tenth peak side angle (right) | 65,6°      | 68,2°    |

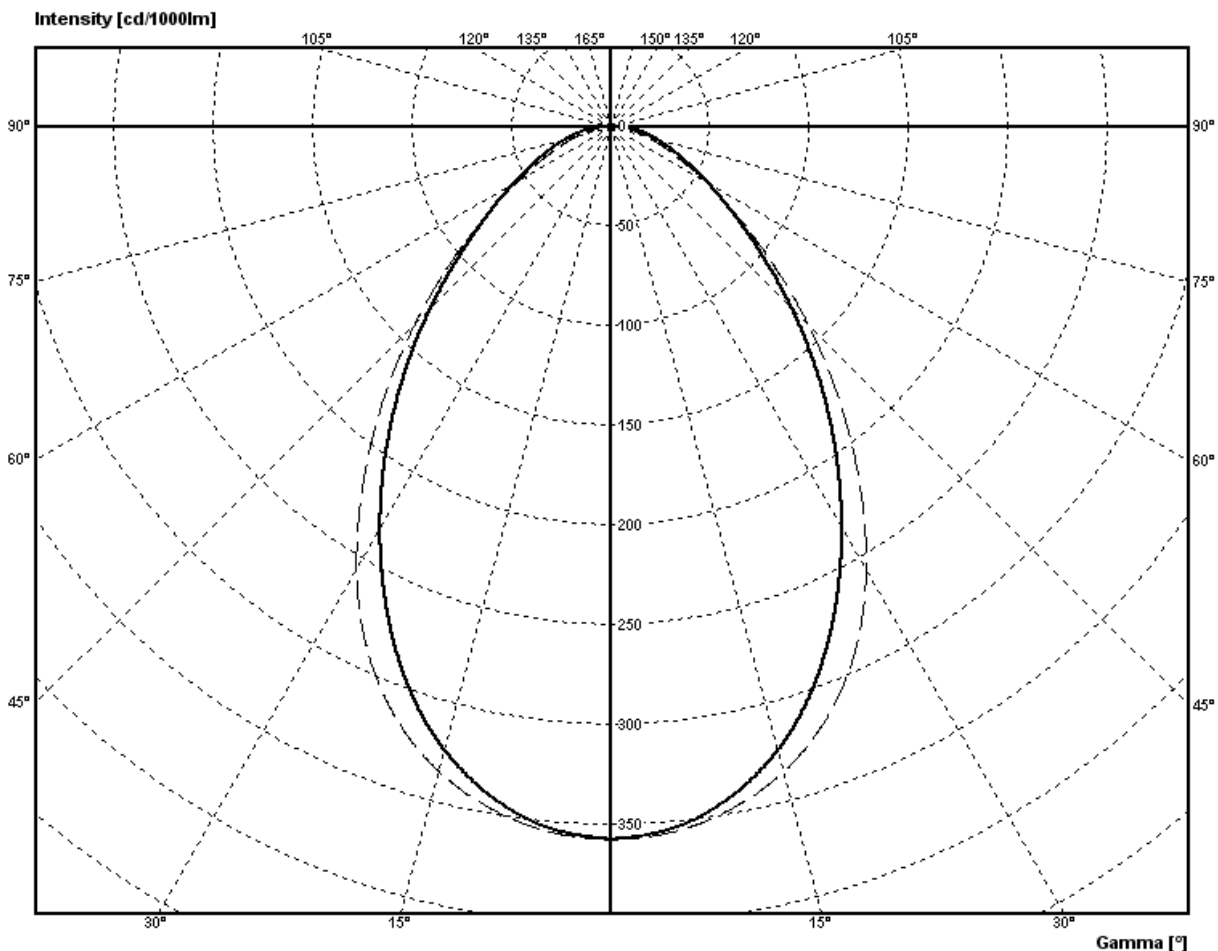
|                  |        |        |        |        |        |        |        |        |        |        |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>C-planes:</b> | 0,0°   | 15,0°  | 30,0°  | 45,0°  | 60,0°  | 75,0°  | 90,0°  | 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° |        |        |        |        |        |        |

|               |       |       |       |       |       |       |       |       |       |       |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Gamma:</b> | 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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|            |  |               |                 |
|------------|--|---------------|-----------------|
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| Number:    | 90509+90502L008                                  | Diameter:     | 0 mm            |
| Report:    | 21-01-2020                                       | Length:       | 2244 mm         |
| Meas.-no.: | 01   | Width:        | 65 mm           |
| Lamp type: | LED 830 - 01                                     | Height:       | 82 mm           |
| Number:    | 01   | Power:        | 57,62 W         |
| Lamp flux: | 8640,00 lm                                       | Operator:     | INDELAGUE GROUP |
| Date:      | 21-01-2020 17:58:47                              | Output ratio: | 62,6 %          |

Polar diagram REBA 65 EXT LINE L2244 MID+INT SYM BGLARE 830 HO / Direct in 115°  
C / 5° G



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| <b>Number:</b>    | 90509+90502L008   | <b>Diameter:</b>     | 0 mm             |
| <b>Report:</b>    | 21-01-2020  | <b>Length:</b>       | 2244 mm          |
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| <b>Number:</b>    | 01  | <b>Power:</b>        | 57,62 W          |
| <b>Lamp flux:</b> | 8640,00 lm  | <b>Operator:</b>     | INDEL AGUE GROUP |
| <b>Date:</b>      | 21-01-2020 17:58:47                                     | <b>Output ratio:</b> | 62,6 %           |

## UGR Unified Glare Ratios

|                                 |            |                         |            |            |            |            |                       |            |            |            |            |
|---------------------------------|------------|-------------------------|------------|------------|------------|------------|-----------------------|------------|------------|------------|------------|
| <b>Ceiling reflectance</b>      |            | <b>0,7</b>              | <b>0,7</b> | <b>0,5</b> | <b>0,5</b> | <b>0,3</b> | <b>0,7</b>            | <b>0,7</b> | <b>0,5</b> | <b>0,5</b> | <b>0,3</b> |
| <b>Wall reflectance</b>         |            | <b>0,5</b>              | <b>0,3</b> | <b>0,5</b> | <b>0,3</b> | <b>0,3</b> | <b>0,5</b>            | <b>0,3</b> | <b>0,5</b> | <b>0,3</b> | <b>0,3</b> |
| <b>Floor cavity reflectance</b> |            | <b>0,2</b>              | <b>0,2</b> | <b>0,2</b> | <b>0,2</b> | <b>0,2</b> | <b>0,2</b>            | <b>0,2</b> | <b>0,2</b> | <b>0,2</b> | <b>0,2</b> |
| <b>Room dimension</b>           |            | <b>Viewed crosswise</b> |            |            |            |            | <b>Viewed endwise</b> |            |            |            |            |
| <b>2H</b>                       | <b>2H</b>  | 15,8                    | 17,2       | 16,2       | 17,5       | 17,9       | 17,7                  | 19,1       | 18,1       | 19,5       | 19,8       |
| <b>2H</b>                       | <b>3H</b>  | 16,3                    | 17,6       | 16,7       | 18,0       | 18,3       | 18,3                  | 19,6       | 18,7       | 19,9       | 20,3       |
| <b>2H</b>                       | <b>4H</b>  | 16,5                    | 17,8       | 16,9       | 18,1       | 18,5       | 18,5                  | 19,7       | 18,9       | 20,1       | 20,5       |
| <b>2H</b>                       | <b>6H</b>  | 16,7                    | 17,8       | 17,1       | 18,2       | 18,6       | 18,7                  | 19,8       | 19,1       | 20,2       | 20,6       |
| <b>2H</b>                       | <b>8H</b>  | 16,7                    | 17,8       | 17,1       | 18,2       | 18,6       | 18,8                  | 19,8       | 19,2       | 20,2       | 20,6       |
| <b>2H</b>                       | <b>12H</b> | 16,7                    | 17,7       | 17,1       | 18,1       | 18,5       | 18,8                  | 19,8       | 19,2       | 20,2       | 20,6       |
| <b>4H</b>                       | <b>2H</b>  | 16,1                    | 17,3       | 16,5       | 17,7       | 18,0       | 17,8                  | 19,0       | 18,2       | 19,4       | 19,7       |
| <b>4H</b>                       | <b>3H</b>  | 16,8                    | 17,8       | 17,2       | 18,2       | 18,6       | 18,5                  | 19,5       | 18,9       | 19,9       | 20,3       |
| <b>4H</b>                       | <b>4H</b>  | 17,1                    | 18,0       | 17,6       | 18,4       | 18,9       | 18,8                  | 19,7       | 19,2       | 20,1       | 20,6       |
| <b>4H</b>                       | <b>6H</b>  | 17,3                    | 18,1       | 17,8       | 18,6       | 19,0       | 19,0                  | 19,8       | 19,5       | 20,3       | 20,7       |
| <b>4H</b>                       | <b>8H</b>  | 17,4                    | 18,1       | 17,9       | 18,6       | 19,0       | 19,1                  | 19,8       | 19,6       | 20,3       | 20,8       |
| <b>4H</b>                       | <b>12H</b> | 17,4                    | 18,1       | 17,9       | 18,6       | 19,1       | 19,2                  | 19,9       | 19,7       | 20,3       | 20,8       |
| <b>8H</b>                       | <b>4H</b>  | 17,2                    | 17,9       | 17,6       | 18,4       | 18,8       | 18,8                  | 19,5       | 19,3       | 20,0       | 20,4       |
| <b>8H</b>                       | <b>6H</b>  | 17,4                    | 18,1       | 17,9       | 18,5       | 19,0       | 19,0                  | 19,7       | 19,5       | 20,1       | 20,6       |
| <b>8H</b>                       | <b>8H</b>  | 17,6                    | 18,1       | 18,1       | 18,7       | 19,1       | 19,2                  | 19,7       | 19,7       | 20,2       | 20,7       |
| <b>8H</b>                       | <b>12H</b> | 17,7                    | 18,1       | 18,2       | 18,7       | 19,2       | 19,3                  | 19,7       | 19,8       | 20,2       | 20,7       |
| <b>12H</b>                      | <b>4H</b>  | 17,2                    | 17,9       | 17,7       | 18,3       | 18,8       | 18,8                  | 19,5       | 19,3       | 19,9       | 20,4       |
| <b>12H</b>                      | <b>6H</b>  | 17,5                    | 18,0       | 18,0       | 18,5       | 19,0       | 19,1                  | 19,6       | 19,6       | 20,1       | 20,6       |
| <b>12H</b>                      | <b>8H</b>  | 17,6                    | 18,1       | 18,2       | 18,6       | 19,1       | 19,2                  | 19,6       | 19,7       | 20,2       | 20,7       |

UGR values are corrected for lamp flux of 8640 lm by 7,5

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| <b>Number:</b>    | 01  | <b>Power:</b>        | 57,62 W          |
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Luminance [cd/m<sup>2</sup>] REBA 65 EXT LINE L2244 MID+INT SYM BGLARE 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    | 4874,13 | 4973,11 | 5381,65 | 6151,19 | 7252,98 | 8955,59 | 11993,9 | 8955,59 | 7252,98 |
| 50,00    | 3698,30 | 3736,83 | 4029,96 | 4632,70 | 5546,46 | 6941,49 | 9810,36 | 6941,49 | 5546,46 |
| 55,00    | 2803,20 | 2791,11 | 3041,16 | 3449,29 | 4156,79 | 5287,88 | 7925,54 | 5287,88 | 4156,79 |
| 60,00    | 2133,91 | 2089,42 | 2317,54 | 2610,05 | 3088,13 | 4029,13 | 6383,03 | 4029,13 | 3088,13 |
| 65,00    | 1623,86 | 1602,08 | 1748,75 | 1920,23 | 2281,34 | 3049,27 | 5137,23 | 3049,27 | 2281,34 |
| 70,00    | 1255,19 | 1269,84 | 1337,42 | 1440,13 | 1688,58 | 2318,75 | 4307,69 | 2318,75 | 1688,58 |
| 75,00    | 950,97  | 986,69  | 1006,28 | 1065,39 | 1255,21 | 1780,29 | 3697,65 | 1780,29 | 1255,21 |
| 80,00    | 682,84  | 697,06  | 714,90  | 740,20  | 891,69  | 1292,31 | 3146,28 | 1292,31 | 891,69  |
| 85,00    | 430,86  | 432,54  | 435,79  | 434,40  | 507,80  | 745,91  | 2444,94 | 745,91  | 507,80  |

| G/C [cd/ | 135,00  | 150,00  | 165,00  | 180,00  | 195,00  | 210,00  | 225,00  | 240,00  | 255,00  |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 45,00    | 6151,19 | 5381,65 | 4973,11 | 4874,13 | 4973,11 | 5381,65 | 6151,19 | 7252,98 | 8955,59 |
| 50,00    | 4632,70 | 4029,96 | 3736,83 | 3698,30 | 3736,83 | 4029,96 | 4632,70 | 5546,46 | 6941,49 |
| 55,00    | 3449,29 | 3041,16 | 2791,11 | 2803,20 | 2791,11 | 3041,16 | 3449,29 | 4156,79 | 5287,88 |
| 60,00    | 2610,05 | 2317,54 | 2089,42 | 2133,91 | 2089,42 | 2317,54 | 2610,05 | 3088,13 | 4029,13 |
| 65,00    | 1920,23 | 1748,75 | 1602,08 | 1623,86 | 1602,08 | 1748,75 | 1920,23 | 2281,34 | 3049,27 |
| 70,00    | 1440,13 | 1337,42 | 1269,84 | 1255,19 | 1269,84 | 1337,42 | 1440,13 | 1688,58 | 2318,75 |
| 75,00    | 1065,39 | 1006,28 | 986,69  | 950,97  | 986,69  | 1006,28 | 1065,39 | 1255,21 | 1780,29 |
| 80,00    | 740,20  | 714,90  | 697,06  | 682,84  | 697,06  | 714,90  | 740,20  | 891,69  | 1292,31 |
| 85,00    | 434,40  | 435,79  | 432,54  | 430,86  | 432,54  | 435,79  | 434,40  | 507,80  | 745,91  |

| G/C [cd/ | 270,00  | 285,00  | 300,00  | 315,00  | 330,00  | 345,00  |
|----------|---------|---------|---------|---------|---------|---------|
| 45,00    | 11993,9 | 8955,59 | 7252,98 | 6151,19 | 5381,65 | 4973,11 |
| 50,00    | 9810,36 | 6941,49 | 5546,46 | 4632,70 | 4029,96 | 3736,83 |
| 55,00    | 7925,54 | 5287,88 | 4156,79 | 3449,29 | 3041,16 | 2791,11 |
| 60,00    | 6383,03 | 4029,13 | 3088,13 | 2610,05 | 2317,54 | 2089,42 |
| 65,00    | 5137,23 | 3049,27 | 2281,34 | 1920,23 | 1748,75 | 1602,08 |
| 70,00    | 4307,69 | 2318,75 | 1688,58 | 1440,13 | 1337,42 | 1269,84 |
| 75,00    | 3697,65 | 1780,29 | 1255,21 | 1065,39 | 1006,28 | 986,69  |
| 80,00    | 3146,28 | 1292,31 | 891,69  | 740,20  | 714,90  | 697,06  |
| 85,00    | 2444,94 | 745,91  | 507,80  | 434,40  | 435,79  | 432,54  |

## HEADQUARTERS

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