

PHOTOMETRIC RESULTS

| | | | |
|------------|--------------------------------------------------------|---------------|------------------|
| Name: | REBA 50 /T EXT LINE L0860 SRT/END+INT SYM BFLEX 840 HO | | |
| Number: | 90507-83+90499L003 | Diameter: | 0 mm |
| Report: | 21-01-2020 | Length: | 860 mm |
| Meas.-no.: | 01 | Width: | 70 mm |
| Lamp type: | LED 840 - 01 | Height: | 114 mm |
| Number: | 01 | Power: | 21,79 W |
| Lamp flux: | 3540,00 lm | Operator: | INDEL AGUE GROUP |
| Date: | 24-01-2020 10:36:51 | Output ratio: | 63,7 % |

Protocol

LiTG-class: A40
UTE-class: 0,64 E
IES-class: 46 - 76 - 94 - 100 - 64
TM5-class: BZ4/0.75/BZ5

Divergences in the plane through maximum intensity:

| | Horizontal | Vertical |
|-------------------------------|------------|----------|
| One half peak divergence | 108,5° | 113,1° |
| Half peak side angle (left) | -54,3° | -56,5° |
| Half peak side angle (right) | 54,3° | 56,5° |
| One tenth peak divergence | 162,6° | 173,4° |
| Tenth peak side angle (left) | -81,3° | -86,7° |
| Tenth peak side angle (right) | 81,3° | 86,7° |

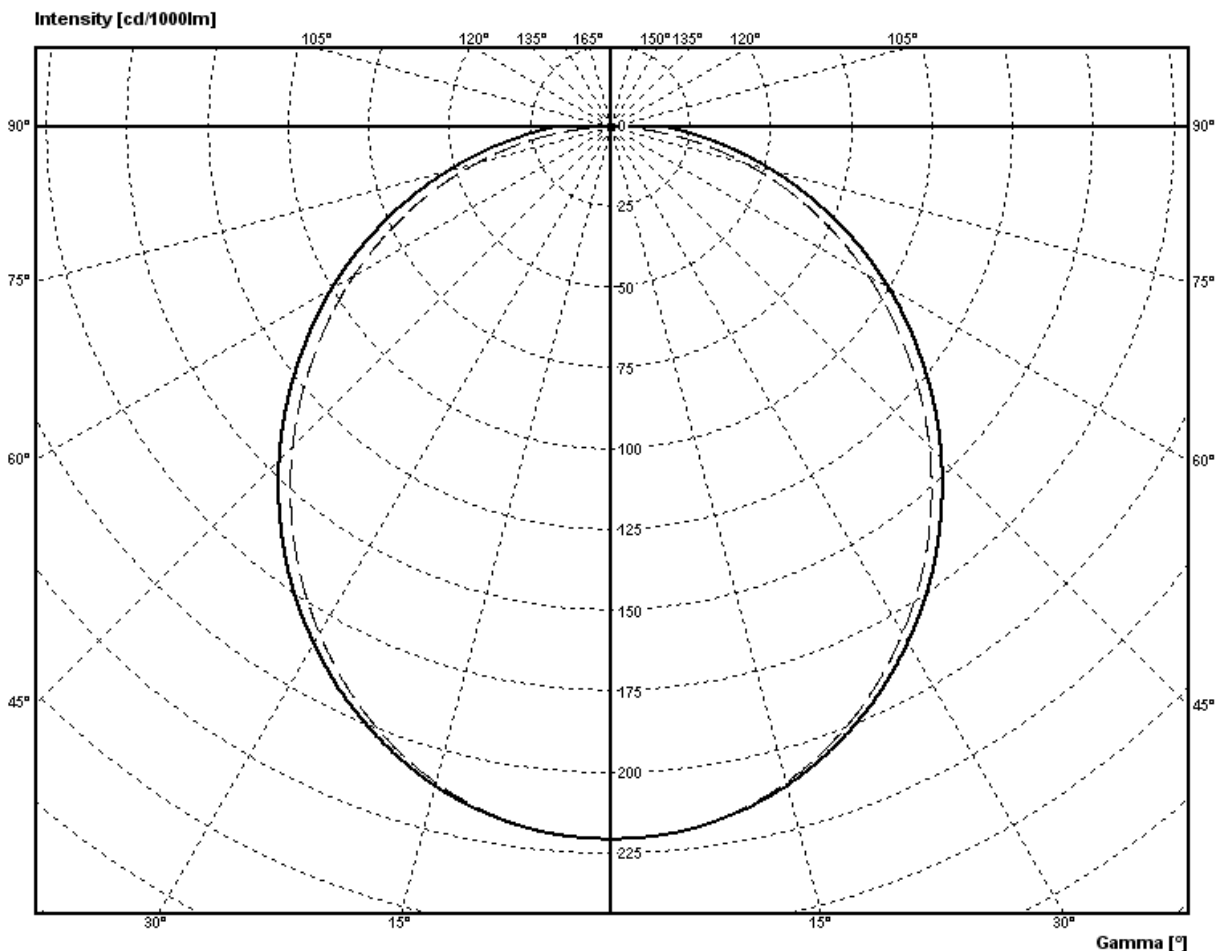
| | | | | | | | | | | |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| C-planes: | 0,0° | 15,0° | 30,0° | 45,0° | 60,0° | 75,0° | 90,0° | 105,0° | 120,0° | 135,0° |
| | 150,0° | 165,0° | 180,0° | 195,0° | 210,0° | 225,0° | 240,0° | 255,0° | 270,0° | 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° | |

PHOTOMETRIC RESULTS

| | | | |
|------------|--------------------------------------------------------|---------------|-----------------|
| Name: | REBA 50 /T EXT LINE L0860 SRT/END+INT SYM BFLEX 840 HO | | |
| Number: | 90507-83+90499L003 | Diameter: | 0 mm |
| Report: | 21-01-2020 | Length: | 860 mm |
| Meas.-no.: | 01 | Width: | 70 mm |
| Lamp type: | LED 840 - 01 | Height: | 114 mm |
| Number: | 01 | Power: | 21,79 W |
| Lamp flux: | 3540,00 lm | Operator: | INDELAGUE GROUP |
| Date: | 24-01-2020 10:36:51 | Output ratio: | 63,7 % |

Polar diagram REBA 50 /T EXT LINE L0860 SRT/END+INT SYM BFLEX 840 HO / Direct
in 15° C / 5° G



PHOTOMETRIC RESULTS

| | | | |
|-------------------|---------------------------------------------------------------|----------------------|------------------|
| Name: | REBA 50 /T EXT LINE L0860 SRT/END+INT SYM BFLEX 840 HO | | |
| Number: | 90507-83+90499L003 | Diameter: | 0 mm |
| Report: | 21-01-2020 | Length: | 860 mm |
| Meas.-no.: | 01 | Width: | 70 mm |
| Lamp type: | LED 840 - 01 | Height: | 114 mm |
| Number: | 01 | Power: | 21,79 W |
| Lamp flux: | 3540,00 lm | Operator: | INDEL AGUE GROUP |
| Date: | 24-01-2020 10:36:51 | Output ratio: | 63,7 % |

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 | 17,4 | 19,1 | 17,8 | 19,4 | 19,7 | 19,5 | 21,2 | 19,9 | 21,5 | 21,8 |
| 2H | 3H | 18,6 | 20,1 | 19,0 | 20,5 | 20,8 | 21,0 | 22,6 | 21,4 | 22,9 | 23,2 |
| 2H | 4H | 19,0 | 20,5 | 19,4 | 20,8 | 21,2 | 21,7 | 23,1 | 22,1 | 23,4 | 23,8 |
| 2H | 6H | 19,4 | 20,7 | 19,8 | 21,1 | 21,5 | 22,1 | 23,5 | 22,5 | 23,8 | 24,2 |
| 2H | 8H | 19,5 | 20,8 | 19,9 | 21,2 | 21,5 | 22,2 | 23,5 | 22,6 | 23,9 | 24,3 |
| 2H | 12H | 19,6 | 20,8 | 20,0 | 21,2 | 21,6 | 22,3 | 23,5 | 22,7 | 23,9 | 24,3 |
| 4H | 2H | 18,1 | 19,5 | 18,5 | 19,9 | 20,3 | 19,8 | 21,3 | 20,2 | 21,6 | 22,0 |
| 4H | 3H | 19,4 | 20,7 | 19,8 | 21,0 | 21,5 | 21,4 | 22,7 | 21,9 | 23,1 | 23,5 |
| 4H | 4H | 20,0 | 21,1 | 20,5 | 21,5 | 22,0 | 22,2 | 23,3 | 22,6 | 23,7 | 24,1 |
| 4H | 6H | 20,4 | 21,4 | 20,9 | 21,9 | 22,3 | 22,7 | 23,7 | 23,2 | 24,1 | 24,6 |
| 4H | 8H | 20,6 | 21,5 | 21,1 | 22,0 | 22,4 | 22,9 | 23,8 | 23,3 | 24,2 | 24,7 |
| 4H | 12H | 20,7 | 21,6 | 21,2 | 22,0 | 22,5 | 23,0 | 23,8 | 23,5 | 24,3 | 24,8 |
| 8H | 4H | 20,3 | 21,2 | 20,7 | 21,6 | 22,1 | 22,3 | 23,2 | 22,7 | 23,6 | 24,1 |
| 8H | 6H | 20,8 | 21,6 | 21,3 | 22,0 | 22,5 | 22,8 | 23,6 | 23,3 | 24,1 | 24,6 |
| 8H | 8H | 21,1 | 21,8 | 21,6 | 22,3 | 22,7 | 23,1 | 23,8 | 23,6 | 24,3 | 24,8 |
| 8H | 12H | 21,3 | 21,8 | 21,8 | 22,3 | 22,9 | 23,3 | 23,8 | 23,8 | 24,3 | 24,9 |
| 12H | 4H | 20,3 | 21,2 | 20,8 | 21,6 | 22,1 | 22,3 | 23,1 | 22,8 | 23,6 | 24,1 |
| 12H | 6H | 20,9 | 21,6 | 21,4 | 22,1 | 22,6 | 22,9 | 23,6 | 23,4 | 24,1 | 24,6 |
| 12H | 8H | 21,1 | 21,7 | 21,7 | 22,2 | 22,7 | 23,1 | 23,7 | 23,7 | 24,2 | 24,7 |

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

PHOTOMETRIC RESULTS

| | | | |
|-------------------|---------------------------------------------------------------|----------------------|------------------|
| Name: | REBA 50 /T EXT LINE L0860 SRT/END+INT SYM BFLEX 840 HO | | |
| Number: | 90507-83+90499L003 | Diameter: | 0 mm |
| Report: | 21-01-2020 | Length: | 860 mm |
| Meas.-no.: | 01 | Width: | 70 mm |
| Lamp type: | LED 840 - 01 | Height: | 114 mm |
| Number: | 01 | Power: | 21,79 W |
| Lamp flux: | 3540,00 lm | Operator: | INDEL AGUE GROUP |
| Date: | 24-01-2020 10:36:51 | Output ratio: | 63,7 % |

Luminance [cd/m²] REBA 50 /T EXT LINE L0860 SRT/END+INT SYM BFLEX 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 | 5393,53 | 5469,99 | 5787,46 | 6463,85 | 7738,78 | 10204,5 | 15880,7 | 10204,5 | 7738,78 |
| 50,00 | 4688,24 | 4755,89 | 5035,86 | 5654,03 | 6828,24 | 9210,13 | 15173,6 | 9210,13 | 6828,24 |
| 55,00 | 4036,33 | 4089,72 | 4344,83 | 4906,66 | 5966,35 | 8222,86 | 14405,2 | 8222,86 | 5966,35 |
| 60,00 | 3437,15 | 3472,97 | 3701,54 | 4171,10 | 5127,85 | 7210,50 | 13597,5 | 7210,50 | 5127,85 |
| 65,00 | 2858,52 | 2888,24 | 3073,60 | 3485,73 | 4320,37 | 6187,76 | 12619,3 | 6187,76 | 4320,37 |
| 70,00 | 2306,96 | 2331,86 | 2479,63 | 2811,37 | 3495,47 | 5113,53 | 11482,1 | 5113,53 | 3495,47 |
| 75,00 | 1786,49 | 1796,12 | 1906,12 | 2149,78 | 2679,90 | 3954,73 | 9927,15 | 3954,73 | 2679,90 |
| 80,00 | 1305,97 | 1305,32 | 1368,51 | 1510,23 | 1851,20 | 2734,11 | 7790,93 | 2734,11 | 1851,20 |
| 85,00 | 890,50 | 880,00 | 898,56 | 934,12 | 1064,12 | 1459,91 | 4244,64 | 1459,91 | 1064,12 |

| G/C [cd/ | 135,00 | 150,00 | 165,00 | 180,00 | 195,00 | 210,00 | 225,00 | 240,00 | 255,00 |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 45,00 | 6463,85 | 5787,46 | 5469,99 | 5393,53 | 5469,99 | 5787,46 | 6463,85 | 7738,78 | 10204,5 |
| 50,00 | 5654,03 | 5035,86 | 4755,89 | 4688,24 | 4755,89 | 5035,86 | 5654,03 | 6828,24 | 9210,13 |
| 55,00 | 4906,66 | 4344,83 | 4089,72 | 4036,33 | 4089,72 | 4344,83 | 4906,66 | 5966,35 | 8222,86 |
| 60,00 | 4171,10 | 3701,54 | 3472,97 | 3437,15 | 3472,97 | 3701,54 | 4171,10 | 5127,85 | 7210,50 |
| 65,00 | 3485,73 | 3073,60 | 2888,24 | 2858,52 | 2888,24 | 3073,60 | 3485,73 | 4320,37 | 6187,76 |
| 70,00 | 2811,37 | 2479,63 | 2331,86 | 2306,96 | 2331,86 | 2479,63 | 2811,37 | 3495,47 | 5113,53 |
| 75,00 | 2149,78 | 1906,12 | 1796,12 | 1786,49 | 1796,12 | 1906,12 | 2149,78 | 2679,90 | 3954,73 |
| 80,00 | 1510,23 | 1368,51 | 1305,32 | 1305,97 | 1305,32 | 1368,51 | 1510,23 | 1851,20 | 2734,11 |
| 85,00 | 934,12 | 898,56 | 880,00 | 890,50 | 880,00 | 898,56 | 934,12 | 1064,12 | 1459,91 |

| G/C [cd/ | 270,00 | 285,00 | 300,00 | 315,00 | 330,00 | 345,00 |
|----------|---------|---------|---------|---------|---------|---------|
| 45,00 | 15880,7 | 10204,5 | 7738,78 | 6463,85 | 5787,46 | 5469,99 |
| 50,00 | 15173,6 | 9210,13 | 6828,24 | 5654,03 | 5035,86 | 4755,89 |
| 55,00 | 14405,2 | 8222,86 | 5966,35 | 4906,66 | 4344,83 | 4089,72 |
| 60,00 | 13597,5 | 7210,50 | 5127,85 | 4171,10 | 3701,54 | 3472,97 |
| 65,00 | 12619,3 | 6187,76 | 4320,37 | 3485,73 | 3073,60 | 2888,24 |
| 70,00 | 11482,1 | 5113,53 | 3495,47 | 2811,37 | 2479,63 | 2331,86 |
| 75,00 | 9927,15 | 3954,73 | 2679,90 | 2149,78 | 1906,12 | 1796,12 |
| 80,00 | 7790,93 | 2734,11 | 1851,20 | 1510,23 | 1368,51 | 1305,32 |
| 85,00 | 4244,64 | 1459,91 | 1064,12 | 934,12 | 898,56 | 880,00 |

HEADQUARTERS

INDÚSTRIA ELÉTRICA DE ÁGUEDA S.A.

Rua da Mina 465 | Covão | Zona industrial EN1 Norte

3750-792 Trofa ÁGUEDA | PORTUGAL

www.indelague.com | www.roxolighting.com

indelague@indelague.pt | roxo.london@roxolighting.com

Tel. (+351) 234 612 310

Fax (+351) 234 624 058