

PHOTOMETRIC RESULTS

| | | | |
|-------------------|--|----------------------|------------------|
| Name: | REBA 50 /T EXT L2280+INT SYM BLINE K3 840 HO | | |
| Number: | 90519+90497L008 | Diameter: | 0 mm |
| Report: | 24-01-2020 | Length: | 2280 mm |
| Meas.-no.: | 01 | Width: | 70 mm |
| Lamp type: | LED 840 - 01 | Height: | 114 mm |
| Number: | 01 | Power: | 57,62 W |
| Lamp flux: | 9440,00 lm | Operator: | INDEL AGUE GROUP |
| Date: | 24-01-2020 12:31:16 | Output ratio: | 62,6 % |

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 | 102,2° | 100,4° |
| Half peak side angle (left) | -51,1° | -50,2° |
| Half peak side angle (right) | 51,1° | 50,2° |
| One tenth peak divergence | 157,2° | 160,5° |
| Tenth peak side angle (left) | -78,6° | -80,3° |
| Tenth peak side angle (right) | 78,6° | 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° | |

PHOTOMETRIC RESULTS

| | | | |
|------------|--|---------------|-----------------|
| Name: | REBA 50 /T EXT L2280+INT SYM BLINE K3 840 HO | | |
| Number: | 90519+90497L008 | Diameter: | 0 mm |
| Report: | 24-01-2020 | Length: | 2280 mm |
| Meas.-no.: | 01 | Width: | 70 mm |
| Lamp type: | LED 840 - 01 | Height: | 114 mm |
| Number: | 01 | Power: | 57,62 W |
| Lamp flux: | 9440,00 lm | Operator: | INDELAGUE GROUP |
| Date: | 24-01-2020 12:31:16 | Output ratio: | 62,6 % |

Polar diagram REBA 50 /T EXT L2280+INT SYM BLINE K3 840 HO / Direct in 15° C / 5° G



PHOTOMETRIC RESULTS

| | | | |
|-------------------|---|----------------------|------------------|
| Name: | REBA 50 /T EXT L2280+INT SYM BLINE K3 840 HO | | |
| Number: | 90519+90497L008 | Diameter: | 0 mm |
| Report: | 24-01-2020 | Length: | 2280 mm |
| Meas.-no.: | 01 | Width: | 70 mm |
| Lamp type: | LED 840 - 01 | Height: | 114 mm |
| Number: | 01 | Power: | 57,62 W |
| Lamp flux: | 9440,00 lm | Operator: | INDEL AGUE GROUP |
| Date: | 24-01-2020 12:31:16 | Output ratio: | 62,6 % |

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

UGR values are corrected for lamp flux of 9440 lm by 7,8

PHOTOMETRIC RESULTS

| | | | |
|-------------------|---|----------------------|------------------|
| Name: | REBA 50 /T EXT L2280+INT SYM BLINE K3 840 HO | | |
| Number: | 90519+90497L008 | Diameter: | 0 mm |
| Report: | 24-01-2020 | Length: | 2280 mm |
| Meas.-no.: | 01 | Width: | 70 mm |
| Lamp type: | LED 840 - 01 | Height: | 114 mm |
| Number: | 01 | Power: | 57,62 W |
| Lamp flux: | 9440,00 lm | Operator: | INDEL AGUE GROUP |
| Date: | 24-01-2020 12:31:16 | Output ratio: | 62,6 % |

Luminance [cd/m²] REBA 50 /T EXT L2280+INT SYM BLINE K3 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 | 5238,90 | 5356,42 | 5784,07 | 6627,77 | 8150,82 | 11050,1 | 17801,1 | 11050,1 | 8150,82 |
| 50,00 | 4437,24 | 4544,07 | 4925,32 | 5683,62 | 7090,07 | 9871,27 | 16982,0 | 9871,27 | 7090,07 |
| 55,00 | 3715,49 | 3807,65 | 4143,40 | 4821,33 | 6079,73 | 8699,85 | 16092,6 | 8699,85 | 6079,73 |
| 60,00 | 3065,33 | 3135,40 | 3425,46 | 3999,31 | 5106,95 | 7494,12 | 15128,7 | 7494,12 | 5106,95 |
| 65,00 | 2451,65 | 2513,55 | 2747,79 | 3222,83 | 4164,40 | 6253,27 | 13982,9 | 6253,27 | 4164,40 |
| 70,00 | 1879,76 | 1932,10 | 2107,07 | 2479,21 | 3222,15 | 4965,70 | 12597,3 | 4965,70 | 3222,15 |
| 75,00 | 1351,53 | 1384,15 | 1511,49 | 1765,31 | 2308,25 | 3612,92 | 10674,7 | 3612,92 | 2308,25 |
| 80,00 | 878,49 | 893,02 | 968,68 | 1110,43 | 1444,60 | 2256,29 | 8212,90 | 2256,29 | 1444,60 |
| 85,00 | 475,38 | 479,28 | 513,20 | 558,80 | 691,87 | 1029,40 | 5091,43 | 1029,40 | 691,87 |

| G/C [cd/ | 135,00 | 150,00 | 165,00 | 180,00 | 195,00 | 210,00 | 225,00 | 240,00 | 255,00 |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 45,00 | 6627,77 | 5784,07 | 5356,42 | 5238,90 | 5356,42 | 5784,07 | 6627,77 | 8150,82 | 11050,1 |
| 50,00 | 5683,62 | 4925,32 | 4544,07 | 4437,24 | 4544,07 | 4925,32 | 5683,62 | 7090,07 | 9871,27 |
| 55,00 | 4821,33 | 4143,40 | 3807,65 | 3715,49 | 3807,65 | 4143,40 | 4821,33 | 6079,73 | 8699,85 |
| 60,00 | 3999,31 | 3425,46 | 3135,40 | 3065,33 | 3135,40 | 3425,46 | 3999,31 | 5106,95 | 7494,12 |
| 65,00 | 3222,83 | 2747,79 | 2513,55 | 2451,65 | 2513,55 | 2747,79 | 3222,83 | 4164,40 | 6253,27 |
| 70,00 | 2479,21 | 2107,07 | 1932,10 | 1879,76 | 1932,10 | 2107,07 | 2479,21 | 3222,15 | 4965,70 |
| 75,00 | 1765,31 | 1511,49 | 1384,15 | 1351,53 | 1384,15 | 1511,49 | 1765,31 | 2308,25 | 3612,92 |
| 80,00 | 1110,43 | 968,68 | 893,02 | 878,49 | 893,02 | 968,68 | 1110,43 | 1444,60 | 2256,29 |
| 85,00 | 558,80 | 513,20 | 479,28 | 475,38 | 479,28 | 513,20 | 558,80 | 691,87 | 1029,40 |

| G/C [cd/ | 270,00 | 285,00 | 300,00 | 315,00 | 330,00 | 345,00 |
|----------|---------|---------|---------|---------|---------|---------|
| 45,00 | 17801,1 | 11050,1 | 8150,82 | 6627,77 | 5784,07 | 5356,42 |
| 50,00 | 16982,0 | 9871,27 | 7090,07 | 5683,62 | 4925,32 | 4544,07 |
| 55,00 | 16092,6 | 8699,85 | 6079,73 | 4821,33 | 4143,40 | 3807,65 |
| 60,00 | 15128,7 | 7494,12 | 5106,95 | 3999,31 | 3425,46 | 3135,40 |
| 65,00 | 13982,9 | 6253,27 | 4164,40 | 3222,83 | 2747,79 | 2513,55 |
| 70,00 | 12597,3 | 4965,70 | 3222,15 | 2479,21 | 2107,07 | 1932,10 |
| 75,00 | 10674,7 | 3612,92 | 2308,25 | 1765,31 | 1511,49 | 1384,15 |
| 80,00 | 8212,90 | 2256,29 | 1444,60 | 1110,43 | 968,68 | 893,02 |
| 85,00 | 5091,43 | 1029,40 | 691,87 | 558,80 | 513,20 | 479,28 |

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