

PHOTOMETRIC RESULTS

| | | | |
|-------------------|---|----------------------|------------------|
| Name: | REBA 35 D/I LED Line L1682 bLINE HF 840 Z SRT | | |
| Number: | 01 | Diameter: | 0 mm |
| Report: | 14-03-2019 | Length: | 1682 mm |
| Meas.-no.: | 01 | Width: | 35 mm |
| Lamp type: | LED 840 - 01 | Height: | 100 mm |
| Number: | 1 | Power: | 86,69 W |
| Lamp flux: | 13717,00 lm | Operator: | INDEL AGUE GROUP |
| Date: | 14-03-2019 11:24:43 | Output ratio: | 63,4 % |

Protocol

LiTG-class: C43
UTE-class: 0,32 D + 0,31 T
IES-class: 50 - 81 - 96 - 51 - 63
TM5-class: BZ4

Divergences in the plane through maximum intensity:

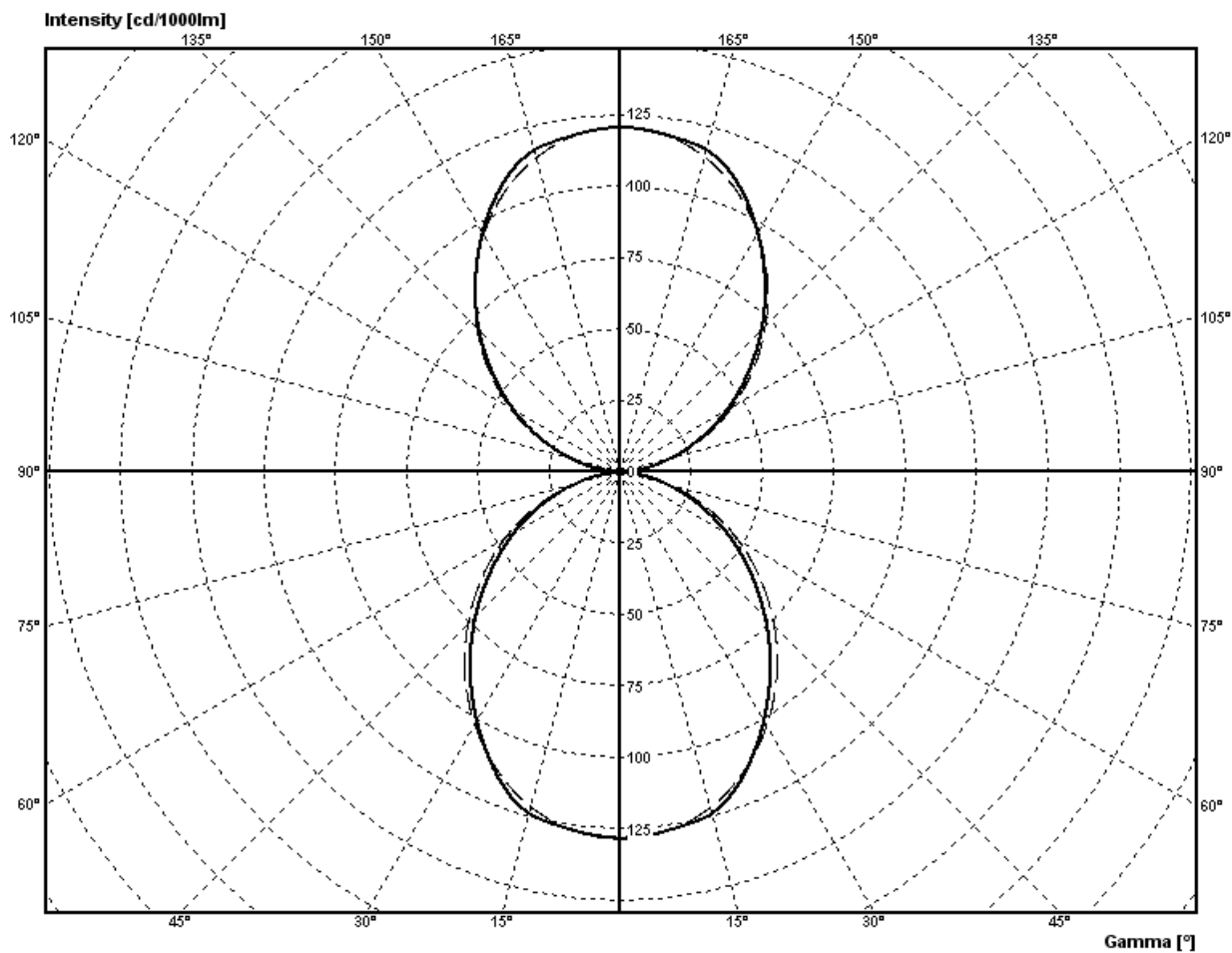
| | Horizontal | Vertical |
|-------------------------------|------------|----------|
| One half peak divergence | 102,5° | 98,1° |
| Half peak side angle (left) | -51,3° | -49,1° |
| Half peak side angle (right) | 51,3° | 49,1° |
| One tenth peak divergence | 157,6° | 156,6° |
| Tenth peak side angle (left) | -78,8° | -78,3° |
| Tenth peak side angle (right) | 78,8° | 78,3° |

| | | | | | | | | | | |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 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° | 95,0° |
| | 100,0° | 105,0° | 110,0° | 115,0° | 120,0° | 125,0° | 130,0° | 135,0° | 140,0° | 145,0° |
| | 150,0° | 155,0° | 160,0° | 165,0° | 170,0° | 175,0° | 180,0° | | | |

PHOTOMETRIC RESULTS

| | | | |
|------------|---|---------------|-----------------|
| Name: | REBA 35 D/I LED Line L1682 bLINE HF 840 Z SRT | | |
| Number: | 01 | Diameter: | 0 mm |
| Report: | 14-03-2019 | Length: | 1682 mm |
| Meas.-no.: | 01 | Width: | 35 mm |
| Lamp type: | LED 840 - 01 | Height: | 100 mm |
| Number: | 1 | Power: | 86,69 W |
| Lamp flux: | 13717,00 lm | Operator: | INDELAGUE GROUP |
| Date: | 14-03-2019 11:24:43 | Output ratio: | 63,4 % |

Polar diagram REBA 35 D/I LED Line L1682 bLINE HF 840 Z SRT / Total in 15° C / 5° 

PHOTOMETRIC RESULTS

| | | | |
|-------------------|---|----------------------|------------------|
| Name: | REBA 35 D/I LED Line L1682 bLINE HF 840 Z SRT | | |
| Number: | 01 | Diameter: | 0 mm |
| Report: | 14-03-2019 | Length: | 1682 mm |
| Meas.-no.: | 01 | Width: | 35 mm |
| Lamp type: | LED 840 - 01 | Height: | 100 mm |
| Number: | 1 | Power: | 86,69 W |
| Lamp flux: | 13717,00 lm | Operator: | INDEL AGUE GROUP |
| Date: | 14-03-2019 11:24:43 | Output ratio: | 63,4 % |

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 | 14,0 | 14,9 | 14,9 | 15,8 | 17,1 | 17,3 | 18,2 | 18,3 | 19,2 | 20,4 |
| 2H | 3H | 14,8 | 15,6 | 15,7 | 16,5 | 17,8 | 18,7 | 19,4 | 19,6 | 20,4 | 21,7 |
| 2H | 4H | 15,0 | 15,7 | 16,0 | 16,7 | 18,0 | 19,2 | 19,9 | 20,1 | 20,9 | 22,1 |
| 2H | 6H | 15,1 | 15,8 | 16,1 | 16,8 | 18,1 | 19,5 | 20,2 | 20,5 | 21,1 | 22,4 |
| 2H | 8H | 15,1 | 15,7 | 16,1 | 16,7 | 18,0 | 19,5 | 20,2 | 20,5 | 21,2 | 22,5 |
| 2H | 12H | 15,0 | 15,7 | 16,0 | 16,7 | 18,0 | 19,5 | 20,2 | 20,5 | 21,2 | 22,5 |
| 4H | 2H | 14,6 | 15,3 | 15,6 | 16,3 | 17,6 | 17,4 | 18,2 | 18,4 | 19,1 | 20,4 |
| 4H | 3H | 15,5 | 16,1 | 16,5 | 17,1 | 18,4 | 18,8 | 19,4 | 19,8 | 20,4 | 21,7 |
| 4H | 4H | 15,8 | 16,4 | 16,8 | 17,4 | 18,7 | 19,4 | 20,0 | 20,4 | 21,0 | 22,3 |
| 4H | 6H | 15,9 | 16,4 | 16,9 | 17,4 | 18,8 | 19,7 | 20,2 | 20,7 | 21,2 | 22,6 |
| 4H | 8H | 15,9 | 16,4 | 17,0 | 17,4 | 18,7 | 19,8 | 20,3 | 20,9 | 21,3 | 22,6 |
| 4H | 12H | 15,9 | 16,4 | 17,0 | 17,4 | 18,7 | 19,9 | 20,3 | 20,9 | 21,3 | 22,7 |
| 8H | 4H | 15,9 | 16,4 | 17,0 | 17,4 | 18,7 | 19,3 | 19,8 | 20,3 | 20,8 | 22,1 |
| 8H | 6H | 16,1 | 16,5 | 17,1 | 17,5 | 18,9 | 19,7 | 20,1 | 20,7 | 21,1 | 22,5 |
| 8H | 8H | 16,2 | 16,5 | 17,2 | 17,6 | 18,9 | 19,9 | 20,2 | 20,9 | 21,2 | 22,6 |
| 8H | 12H | 16,2 | 16,5 | 17,2 | 17,5 | 18,9 | 19,9 | 20,2 | 21,0 | 21,2 | 22,6 |
| 12H | 4H | 15,9 | 16,4 | 17,0 | 17,4 | 18,7 | 19,3 | 19,7 | 20,3 | 20,7 | 22,1 |
| 12H | 6H | 16,2 | 16,5 | 17,2 | 17,5 | 18,9 | 19,7 | 20,0 | 20,7 | 21,1 | 22,4 |
| 12H | 8H | 16,2 | 16,5 | 17,2 | 17,5 | 18,9 | 19,8 | 20,1 | 20,9 | 21,2 | 22,5 |

UGR values are corrected for lamp flux of 13717 lm by 9,1

PHOTOMETRIC RESULTS

| | | | |
|-------------------|---|----------------------|------------------|
| Name: | REBA 35 D/I LED Line L1682 bLINE HF 840 Z SRT | | |
| Number: | 01 | Diameter: | 0 mm |
| Report: | 14-03-2019 | Length: | 1682 mm |
| Meas.-no.: | 01 | Width: | 35 mm |
| Lamp type: | LED 840 - 01 | Height: | 100 mm |
| Number: | 1 | Power: | 86,69 W |
| Lamp flux: | 13717,00 lm | Operator: | INDEL AGUE GROUP |
| Date: | 14-03-2019 11:24:43 | Output ratio: | 63,4 % |

Luminance [cd/m²] REBA 35 D/I LED Line L1682 bLINE HF 840 Z SRT / Total 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 | 6414,80 | 6592,10 | 7219,69 | 8494,73 | 10943,6 | 15829,5 | 28463,4 | 15829,5 | 10943,6 |
| 50,00 | 5322,34 | 5491,79 | 6034,76 | 7142,42 | 9315,36 | 13995,7 | 27118,2 | 13995,7 | 9315,36 |
| 55,00 | 4369,01 | 4514,17 | 4980,91 | 5945,43 | 7830,67 | 12101,5 | 25705,2 | 12101,5 | 7830,67 |
| 60,00 | 3521,54 | 3633,56 | 4040,66 | 4840,56 | 6465,54 | 10211,3 | 24150,5 | 10211,3 | 6465,54 |
| 65,00 | 2738,14 | 2840,55 | 3166,29 | 3833,83 | 5141,79 | 8322,94 | 22244,4 | 8322,94 | 5141,79 |
| 70,00 | 2027,90 | 2105,32 | 2349,13 | 2860,31 | 3910,53 | 6440,56 | 19968,1 | 6440,56 | 3910,53 |
| 75,00 | 1382,63 | 1432,09 | 1607,63 | 1945,72 | 2709,51 | 4577,08 | 17047,4 | 4577,08 | 2709,51 |
| 80,00 | 814,86 | 837,80 | 943,03 | 1140,52 | 1596,77 | 2751,19 | 13050,8 | 2751,19 | 1596,77 |
| 85,00 | 372,81 | 378,31 | 429,00 | 497,14 | 698,35 | 1218,26 | 8133,64 | 1218,26 | 698,35 |

| G/C [cd/ | 135,00 | 150,00 | 165,00 | 180,00 | 195,00 | 210,00 | 225,00 | 240,00 | 255,00 |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 45,00 | 8494,73 | 7219,69 | 6592,10 | 6414,80 | 6592,10 | 7219,69 | 8494,73 | 10943,6 | 15829,5 |
| 50,00 | 7142,42 | 6034,76 | 5491,79 | 5322,34 | 5491,79 | 6034,76 | 7142,42 | 9315,36 | 13995,7 |
| 55,00 | 5945,43 | 4980,91 | 4514,17 | 4369,01 | 4514,17 | 4980,91 | 5945,43 | 7830,67 | 12101,5 |
| 60,00 | 4840,56 | 4040,66 | 3633,56 | 3521,54 | 3633,56 | 4040,66 | 4840,56 | 6465,54 | 10211,3 |
| 65,00 | 3833,83 | 3166,29 | 2840,55 | 2738,14 | 2840,55 | 3166,29 | 3833,83 | 5141,79 | 8322,94 |
| 70,00 | 2860,31 | 2349,13 | 2105,32 | 2027,90 | 2105,32 | 2349,13 | 2860,31 | 3910,53 | 6440,56 |
| 75,00 | 1945,72 | 1607,63 | 1432,09 | 1382,63 | 1432,09 | 1607,63 | 1945,72 | 2709,51 | 4577,08 |
| 80,00 | 1140,52 | 943,03 | 837,80 | 814,86 | 837,80 | 943,03 | 1140,52 | 1596,77 | 2751,19 |
| 85,00 | 497,14 | 429,00 | 378,31 | 372,81 | 378,31 | 429,00 | 497,14 | 698,35 | 1218,26 |

| G/C [cd/ | 270,00 | 285,00 | 300,00 | 315,00 | 330,00 | 345,00 |
|----------|---------|---------|---------|---------|---------|---------|
| 45,00 | 28463,4 | 15829,5 | 10943,6 | 8494,73 | 7219,69 | 6592,10 |
| 50,00 | 27118,2 | 13995,7 | 9315,36 | 7142,42 | 6034,76 | 5491,79 |
| 55,00 | 25705,2 | 12101,5 | 7830,67 | 5945,43 | 4980,91 | 4514,17 |
| 60,00 | 24150,5 | 10211,3 | 6465,54 | 4840,56 | 4040,66 | 3633,56 |
| 65,00 | 22244,4 | 8322,94 | 5141,79 | 3833,83 | 3166,29 | 2840,55 |
| 70,00 | 19968,1 | 6440,56 | 3910,53 | 2860,31 | 2349,13 | 2105,32 |
| 75,00 | 17047,4 | 4577,08 | 2709,51 | 1945,72 | 1607,63 | 1432,09 |
| 80,00 | 13050,8 | 2751,19 | 1596,77 | 1140,52 | 943,03 | 837,80 |
| 85,00 | 8133,64 | 1218,26 | 698,35 | 497,14 | 429,00 | 378,31 |

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