

PHOTOMETRIC RESULTS

| | | | |
|-------------------|---|----------------------|------------------|
| Name: | TTP 50 LINE L1460 TUP 830 END HO | | |
| Number: | 90483L150-50 | Diameter: | 0 mm |
| Report: | 07-01-2020 | Length: | 1460 mm |
| Meas.-no.: | 01 | Width: | 50 mm |
| Lamp type: | LED 830 - 01 | Height: | 50 mm |
| Number: | 1 | Power: | 66,91 W |
| Lamp flux: | 9250,00 lm | Operator: | INDEL AGUE GROUP |
| Date: | 07-01-2020 16:52:54 | Output ratio: | 93,2 % |

Protocol

LiTG-class: A42
UTE-class: 0,91 E + 0,02 T
IES-class: 48 - 80 - 96 - 98 - 93
TM5-class: BZ4

| | | |
|--|------------|----------|
| Divergences in the plane through maximum intensity: | Horizontal | Vertical |
| One half peak divergence | 114,9° | 113,2° |
| Half peak side angle (left) | -57,5° | -56,6° |
| Half peak side angle (right) | 57,5° | 56,6° |
| One tenth peak divergence | 157,1° | 160,0° |
| Tenth peak side angle (left) | -78,6° | -80,0° |
| Tenth peak side angle (right) | 78,6° | 80,0° |

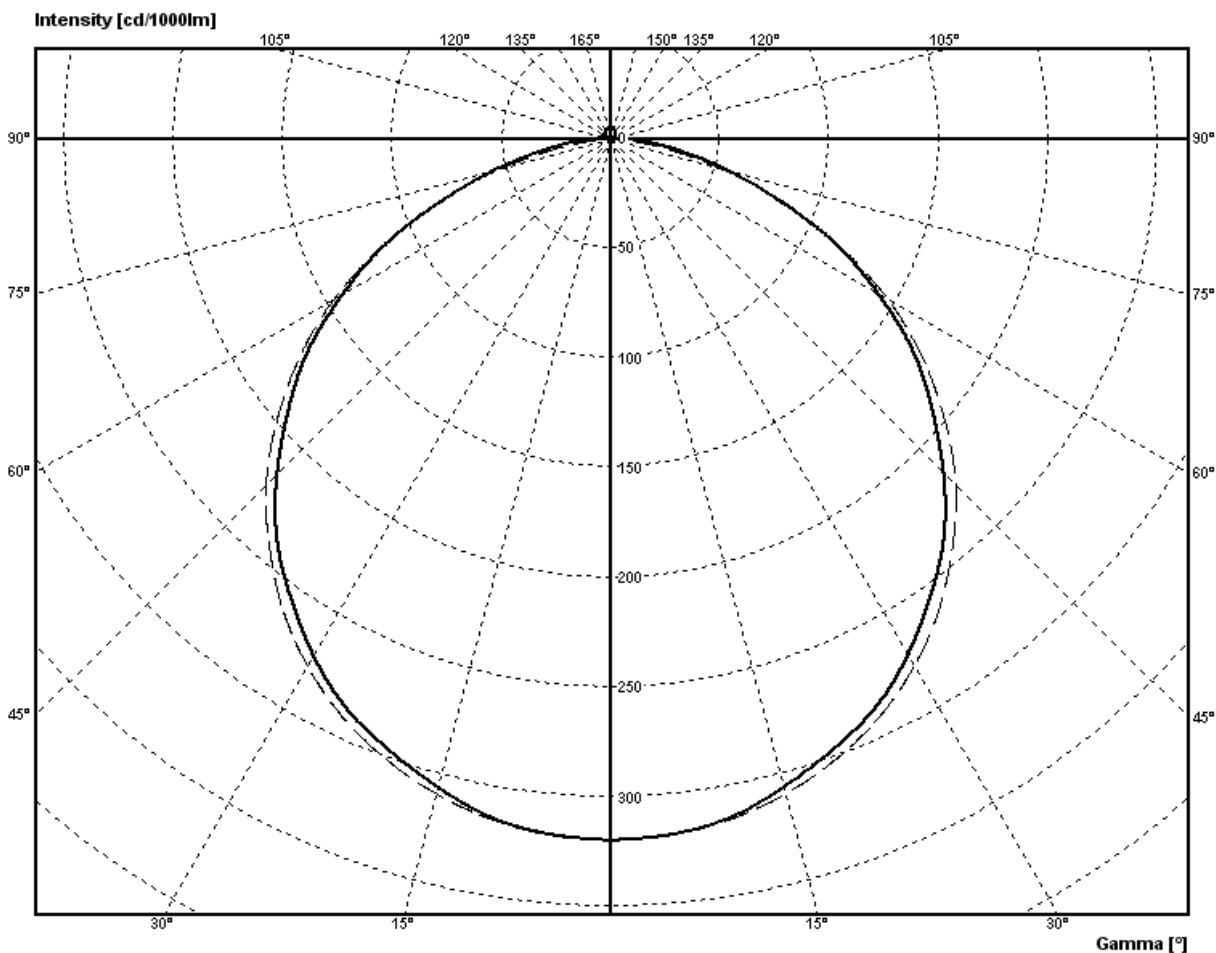
| | | | | | | | | | | |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| C-planes: | 0,0° | 15,0° | 30,0° | 45,0° | 60,0° | 75,0° | 90,0° | 105,0° | 120,0° | 135,0° |
| | 150,0° | 165,0° | 180,0° | 195,0° | 210,0° | 225,0° | 240,0° | 255,0°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

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| Number: | 1 | Power: | 66,91 W |
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Polar diagram TTP 50 LINE L1460 TUP 830 END HO / Total 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 | 22,0 | 23,5 | 22,4 | 23,9 | 24,3 | 23,6 | 25,2 | 24,0 | 25,6 | 25,9 |
| 2H | 3H | 23,0 | 24,4 | 23,4 | 24,8 | 25,2 | 25,0 | 26,4 | 25,4 | 26,8 | 27,2 |
| 2H | 4H | 23,3 | 24,6 | 23,7 | 25,0 | 25,5 | 25,4 | 26,8 | 25,8 | 27,2 | 27,6 |
| 2H | 6H | 23,5 | 24,7 | 23,9 | 25,1 | 25,6 | 25,7 | 26,9 | 26,1 | 27,3 | 27,8 |
| 2H | 8H | 23,5 | 24,7 | 23,9 | 25,1 | 25,5 | 25,7 | 26,9 | 26,1 | 27,3 | 27,8 |
| 2H | 12H | 23,5 | 24,6 | 23,9 | 25,0 | 25,5 | 25,7 | 26,8 | 26,1 | 27,3 | 27,7 |
| 4H | 2H | 22,6 | 24,0 | 23,1 | 24,4 | 24,8 | 24,0 | 25,4 | 24,4 | 25,7 | 26,2 |
| 4H | 3H | 23,8 | 25,0 | 24,2 | 25,4 | 25,8 | 25,4 | 26,6 | 25,9 | 27,0 | 27,5 |
| 4H | 4H | 24,2 | 25,2 | 24,7 | 25,7 | 26,2 | 26,0 | 27,0 | 26,5 | 27,5 | 28,0 |
| 4H | 6H | 24,4 | 25,3 | 24,9 | 25,8 | 26,3 | 26,3 | 27,2 | 26,7 | 27,6 | 28,1 |
| 4H | 8H | 24,5 | 25,3 | 25,0 | 25,8 | 26,3 | 26,3 | 27,2 | 26,8 | 27,6 | 28,2 |
| 4H | 12H | 24,5 | 25,3 | 25,0 | 25,7 | 26,3 | 26,4 | 27,1 | 26,9 | 27,6 | 28,2 |
| 8H | 4H | 24,4 | 25,2 | 24,9 | 25,7 | 26,2 | 26,0 | 26,9 | 26,5 | 27,4 | 27,9 |
| 8H | 6H | 24,6 | 25,3 | 25,2 | 25,8 | 26,4 | 26,3 | 27,0 | 26,9 | 27,5 | 28,1 |
| 8H | 8H | 24,8 | 25,4 | 25,3 | 25,9 | 26,5 | 26,5 | 27,1 | 27,0 | 27,6 | 28,2 |
| 8H | 12H | 24,8 | 25,3 | 25,3 | 25,9 | 26,4 | 26,5 | 27,0 | 27,1 | 27,6 | 28,1 |
| 12H | 4H | 24,4 | 25,2 | 24,9 | 25,7 | 26,2 | 26,0 | 26,8 | 26,6 | 27,3 | 27,8 |
| 12H | 6H | 24,7 | 25,3 | 25,2 | 25,9 | 26,4 | 26,4 | 27,0 | 26,9 | 27,5 | 28,1 |
| 12H | 8H | 24,8 | 25,3 | 25,3 | 25,8 | 26,4 | 26,5 | 27,0 | 27,0 | 27,5 | 28,1 |

UGR values are corrected for lamp flux of 9250 lm by 7,7

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| Lamp type: | LED 830 - 01 | Height: | 50 mm |
| Number: | 1 | Power: | 66,91 W |
| Lamp flux: | 9250,00 lm | Operator: | INDEL AGUE GROUP |
| Date: | 07-01-2020 16:52:54 | Output ratio: | 93,2 % |

Luminance [cd/m²] TTP 50 LINE L1460 TUP 830 END HO / 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 | 19373,0 | 19655,4 | 20691,9 | 22639,4 | 25828,5 | 30598,7 | 38759,8 | 30598,7 | 25828,5 |
| 50,00 | 17342,7 | 17708,1 | 18662,9 | 20560,4 | 23653,1 | 28654,8 | 37842,4 | 28654,8 | 23653,1 |
| 55,00 | 15428,2 | 15625,5 | 16533,6 | 18331,4 | 21379,7 | 26441,4 | 36730,5 | 26441,4 | 21379,7 |
| 60,00 | 13146,4 | 13426,0 | 14257,3 | 15946,0 | 18739,1 | 23687,3 | 35040,7 | 23687,3 | 18739,1 |
| 65,00 | 10872,1 | 11036,8 | 11856,3 | 13311,6 | 15750,9 | 20260,4 | 32134,0 | 20260,4 | 15750,9 |
| 70,00 | 8101,03 | 8367,03 | 9255,73 | 10487,5 | 12493,9 | 16049,8 | 28304,2 | 16049,8 | 12493,9 |
| 75,00 | 5743,55 | 5814,11 | 6385,95 | 7066,70 | 8818,83 | 11332,2 | 22188,8 | 11332,2 | 8818,83 |
| 80,00 | 3509,02 | 3432,64 | 3763,90 | 4245,23 | 5118,85 | 6647,16 | 14888,4 | 6647,16 | 5118,85 |
| 85,00 | 1891,47 | 1318,57 | 1507,96 | 1822,87 | 2323,18 | 2873,18 | 7460,01 | 2873,18 | 2323,18 |

| G/C [cd/ | 135,00 | 150,00 | 165,00 | 180,00 | 195,00 | 210,00 | 225,00 | 240,00 | 255,00 |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 45,00 | 22639,4 | 20691,9 | 19655,4 | 19373,0 | 19655,4 | 20691,9 | 22639,4 | 25828,5 | 30598,7 |
| 50,00 | 20560,4 | 18662,9 | 17708,1 | 17342,7 | 17708,1 | 18662,9 | 20560,4 | 23653,1 | 28654,8 |
| 55,00 | 18331,4 | 16533,6 | 15625,5 | 15428,2 | 15625,5 | 16533,6 | 18331,4 | 21379,7 | 26441,4 |
| 60,00 | 15946,0 | 14257,3 | 13426,0 | 13146,4 | 13426,0 | 14257,3 | 15946,0 | 18739,1 | 23687,3 |
| 65,00 | 13311,6 | 11856,3 | 11036,8 | 10872,1 | 11036,8 | 11856,3 | 13311,6 | 15750,9 | 20260,4 |
| 70,00 | 10487,5 | 9255,73 | 8367,03 | 8101,03 | 8367,03 | 9255,73 | 10487,5 | 12493,9 | 16049,8 |
| 75,00 | 7066,70 | 6385,95 | 5814,11 | 5743,55 | 5814,11 | 6385,95 | 7066,70 | 8818,83 | 11332,2 |
| 80,00 | 4245,23 | 3763,90 | 3432,64 | 3509,02 | 3432,64 | 3763,90 | 4245,23 | 5118,85 | 6647,16 |
| 85,00 | 1822,87 | 1507,96 | 1318,57 | 1891,47 | 1318,57 | 1507,96 | 1822,87 | 2323,18 | 2873,18 |

| G/C [cd/ | 270,00 | 285,00 | 300,00 | 315,00 | 330,00 | 345,00 |
|----------|---------|---------|---------|---------|---------|---------|
| 45,00 | 38759,8 | 30598,7 | 25828,5 | 22639,4 | 20691,9 | 19655,4 |
| 50,00 | 37842,4 | 28654,8 | 23653,1 | 20560,4 | 18662,9 | 17708,1 |
| 55,00 | 36730,5 | 26441,4 | 21379,7 | 18331,4 | 16533,6 | 15625,5 |
| 60,00 | 35040,7 | 23687,3 | 18739,1 | 15946,0 | 14257,3 | 13426,0 |
| 65,00 | 32134,0 | 20260,4 | 15750,9 | 13311,6 | 11856,3 | 11036,8 |
| 70,00 | 28304,2 | 16049,8 | 12493,9 | 10487,5 | 9255,73 | 8367,03 |
| 75,00 | 22188,8 | 11332,2 | 8818,83 | 7066,70 | 6385,95 | 5814,11 |
| 80,00 | 14888,4 | 6647,16 | 5118,85 | 4245,23 | 3763,90 | 3432,64 |
| 85,00 | 7460,01 | 2873,18 | 2323,18 | 1822,87 | 1507,96 | 1318,57 |

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