

PHOTOMETRIC RESULTS

| | | | |
|-------------------|---|----------------------|------------------|
| Name: | TTP 50 LINE L0620 TOP 840 SRT/MID HO | | |
| Number: | 90482L060-58 | Diameter: | 0 mm |
| Report: | 13-01-2020 | Length: | 620 mm |
| Meas.-no.: | 01 | Width: | 50 mm |
| Lamp type: | LED 840 - 01 | Height: | 50 mm |
| Number: | 1 | Power: | 27,79 W |
| Lamp flux: | 4100,00 lm | Operator: | INDEL AGUE GROUP |
| Date: | 13-01-2020 12:03:15 | Output ratio: | 76,5 % |

Protocol

LiTG-class: A31
UTE-class: 0,72 G + 0,04 T
IES-class: 43 - 73 - 91 - 94 - 77
TM5-class: BZ5

| | | |
|--|------------|----------|
| Divergences in the plane through maximum intensity: | Horizontal | Vertical |
| One half peak divergence | 111,7° | 124,6° |
| Half peak side angle (left) | -55,8° | -62,3° |
| Half peak side angle (right) | 55,8° | 62,3° |
| One tenth peak divergence | 160,1° | 203,2° |
| Tenth peak side angle (left) | -80,0° | -101,6° |
| Tenth peak side angle (right) | 80,0° | 101,6° |

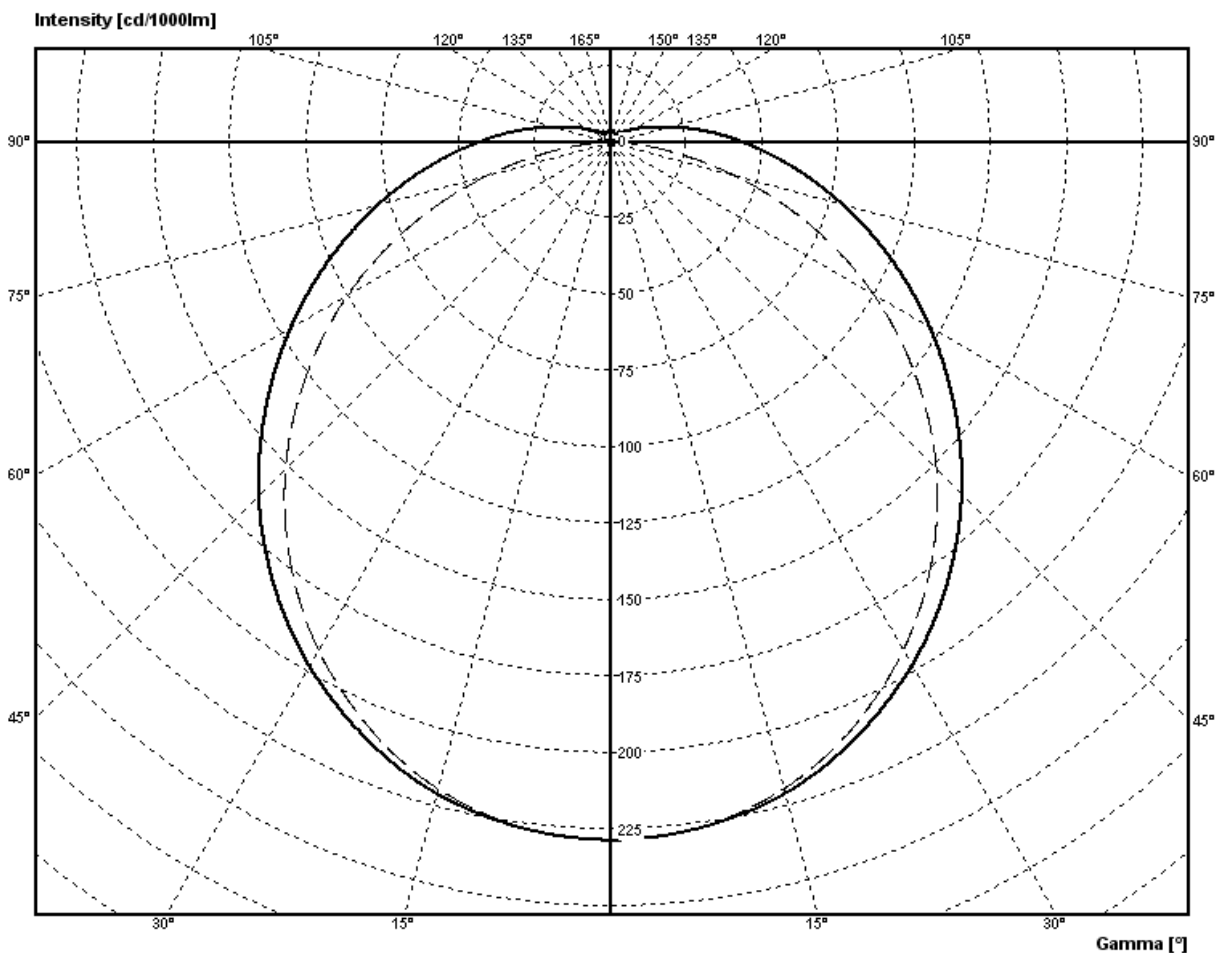
| | | | | | | | | | | |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| C-planes: | 0,0° | 15,0° | 30,0° | 45,0° | 60,0° | 75,0° | 90,0° | 105,0° | 120,0° | 135,0° |
| | 150,0° | 165,0° | 180,0° | 195,0° | 210,0° | 225,0° | 240,0° | 255,0° | 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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Polar diagram TTP 50 LINE L0620 TOP 840 SRT/MID 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 | 21,0 | 22,6 | 21,5 | 23,0 | 23,5 | 21,7 | 23,3 | 22,2 | 23,7 | 24,2 |
| 2H | 3H | 22,6 | 24,1 | 23,1 | 24,5 | 25,0 | 23,2 | 24,6 | 23,7 | 25,1 | 25,6 |
| 2H | 4H | 23,4 | 24,7 | 23,9 | 25,2 | 25,7 | 23,8 | 25,1 | 24,2 | 25,6 | 26,1 |
| 2H | 6H | 24,1 | 25,3 | 24,6 | 25,8 | 26,3 | 24,1 | 25,4 | 24,6 | 25,9 | 26,4 |
| 2H | 8H | 24,3 | 25,6 | 24,8 | 26,0 | 26,6 | 24,2 | 25,4 | 24,7 | 25,9 | 26,4 |
| 2H | 12H | 24,6 | 25,8 | 25,1 | 26,3 | 26,8 | 24,2 | 25,4 | 24,7 | 25,9 | 26,4 |
| 4H | 2H | 21,7 | 23,0 | 22,2 | 23,5 | 24,0 | 22,2 | 23,6 | 22,7 | 24,1 | 24,6 |
| 4H | 3H | 23,5 | 24,7 | 24,0 | 25,1 | 25,7 | 23,9 | 25,0 | 24,4 | 25,5 | 26,1 |
| 4H | 4H | 24,4 | 25,5 | 24,9 | 26,0 | 26,5 | 24,6 | 25,6 | 25,1 | 26,1 | 26,7 |
| 4H | 6H | 25,2 | 26,2 | 25,7 | 26,7 | 27,3 | 25,0 | 25,9 | 25,5 | 26,5 | 27,0 |
| 4H | 8H | 25,6 | 26,5 | 26,1 | 27,0 | 27,6 | 25,1 | 26,0 | 25,7 | 26,6 | 27,1 |
| 4H | 12H | 26,0 | 26,8 | 26,5 | 27,3 | 27,9 | 25,2 | 26,0 | 25,8 | 26,6 | 27,2 |
| 8H | 4H | 24,7 | 25,6 | 25,2 | 26,1 | 26,7 | 24,8 | 25,7 | 25,4 | 26,2 | 26,8 |
| 8H | 6H | 25,6 | 26,4 | 26,2 | 27,0 | 27,6 | 25,3 | 26,1 | 25,9 | 26,7 | 27,3 |
| 8H | 8H | 26,2 | 26,9 | 26,8 | 27,5 | 28,1 | 25,6 | 26,3 | 26,2 | 26,9 | 27,5 |
| 8H | 12H | 26,7 | 27,3 | 27,3 | 27,9 | 28,5 | 25,7 | 26,3 | 26,3 | 26,9 | 27,5 |
| 12H | 4H | 24,7 | 25,5 | 25,3 | 26,1 | 26,7 | 24,9 | 25,7 | 25,4 | 26,2 | 26,8 |
| 12H | 6H | 25,8 | 26,4 | 26,4 | 27,0 | 27,6 | 25,5 | 26,2 | 26,1 | 26,8 | 27,4 |
| 12H | 8H | 26,3 | 26,9 | 26,9 | 27,5 | 28,1 | 25,7 | 26,3 | 26,3 | 26,9 | 27,6 |

UGR values are corrected for lamp flux of 4100 lm by 4,9

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Luminance [cd/m²] TTP 50 LINE L0620 TOP 840 SRT/MID 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 | 15437,8 | 15454,5 | 15862,0 | 16782,6 | 18511,9 | 21420,7 | 26419,7 | 21420,7 | 18511,9 |
| 50,00 | 14194,7 | 14200,7 | 14557,9 | 15427,0 | 17105,8 | 20101,6 | 25548,7 | 20101,6 | 17105,8 |
| 55,00 | 13001,4 | 12986,4 | 13261,9 | 14034,4 | 15605,4 | 18637,2 | 24529,1 | 18637,2 | 15605,4 |
| 60,00 | 11855,0 | 11800,2 | 12008,0 | 12624,1 | 14043,2 | 16945,8 | 23300,9 | 16945,8 | 14043,2 |
| 65,00 | 10746,3 | 10647,9 | 10776,0 | 11212,4 | 12353,9 | 15050,8 | 21625,7 | 15050,8 | 12353,9 |
| 70,00 | 9649,56 | 9520,06 | 9526,03 | 9781,79 | 10561,5 | 12771,7 | 19403,3 | 12771,7 | 10561,5 |
| 75,00 | 8609,83 | 8426,23 | 8345,69 | 8339,87 | 8729,22 | 10196,6 | 16318,2 | 10196,6 | 8729,22 |
| 80,00 | 7606,46 | 7390,26 | 7208,14 | 6982,88 | 6883,14 | 7366,16 | 12108,4 | 7366,16 | 6883,14 |
| 85,00 | 6637,93 | 6408,93 | 6123,39 | 5705,29 | 5185,81 | 4561,24 | 6620,05 | 4561,24 | 5185,81 |

| G/C [cd/ | 135,00 | 150,00 | 165,00 | 180,00 | 195,00 | 210,00 | 225,00 | 240,00 | 255,00 |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 45,00 | 16782,6 | 15862,0 | 15454,5 | 15437,8 | 15454,5 | 15862,0 | 16782,6 | 18511,9 | 21420,7 |
| 50,00 | 15427,0 | 14557,9 | 14200,7 | 14194,7 | 14200,7 | 14557,9 | 15427,0 | 17105,8 | 20101,6 |
| 55,00 | 14034,4 | 13261,9 | 12986,4 | 13001,4 | 12986,4 | 13261,9 | 14034,4 | 15605,4 | 18637,2 |
| 60,00 | 12624,1 | 12008,0 | 11800,2 | 11855,0 | 11800,2 | 12008,0 | 12624,1 | 14043,2 | 16945,8 |
| 65,00 | 11212,4 | 10776,0 | 10647,9 | 10746,3 | 10647,9 | 10776,0 | 11212,4 | 12353,9 | 15050,8 |
| 70,00 | 9781,79 | 9526,03 | 9520,06 | 9649,56 | 9520,06 | 9526,03 | 9781,79 | 10561,5 | 12771,7 |
| 75,00 | 8339,87 | 8345,69 | 8426,23 | 8609,83 | 8426,23 | 8345,69 | 8339,87 | 8729,22 | 10196,6 |
| 80,00 | 6982,88 | 7208,14 | 7390,26 | 7606,46 | 7390,26 | 7208,14 | 6982,88 | 6883,14 | 7366,16 |
| 85,00 | 5705,29 | 6123,39 | 6408,93 | 6637,93 | 6408,93 | 6123,39 | 5705,29 | 5185,81 | 4561,24 |

| G/C [cd/ | 270,00 | 285,00 | 300,00 | 315,00 | 330,00 | 345,00 |
|----------|---------|---------|---------|---------|---------|---------|
| 45,00 | 26419,7 | 21420,7 | 18511,9 | 16782,6 | 15862,0 | 15454,5 |
| 50,00 | 25548,7 | 20101,6 | 17105,8 | 15427,0 | 14557,9 | 14200,7 |
| 55,00 | 24529,1 | 18637,2 | 15605,4 | 14034,4 | 13261,9 | 12986,4 |
| 60,00 | 23300,9 | 16945,8 | 14043,2 | 12624,1 | 12008,0 | 11800,2 |
| 65,00 | 21625,7 | 15050,8 | 12353,9 | 11212,4 | 10776,0 | 10647,9 |
| 70,00 | 19403,3 | 12771,7 | 10561,5 | 9781,79 | 9526,03 | 9520,06 |
| 75,00 | 16318,2 | 10196,6 | 8729,22 | 8339,87 | 8345,69 | 8426,23 |
| 80,00 | 12108,4 | 7366,16 | 6883,14 | 6982,88 | 7208,14 | 7390,26 |
| 85,00 | 6620,05 | 4561,24 | 5185,81 | 5705,29 | 6123,39 | 6408,93 |

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