

PHOTOMETRIC RESULTS

| | | | |
|-------------------|---|----------------------|------------------|
| Name: | TTP 70 LINE L0900 TOP 830 SRT/MID HO | | |
| Number: | 90486L090-58 | Diameter: | 0 mm |
| Report: | 14-01-2020 | Length: | 900 mm |
| Meas.-no.: | 01 | Width: | 70 mm |
| Lamp type: | LED 830 - 01 | Height: | 70 mm |
| Number: | 1 | Power: | 40,67 W |
| Lamp flux: | 5550,00 lm | Operator: | INDEL AGUE GROUP |
| Date: | 14-01-2020 10:47:12 | Output ratio: | 80,4 % |

Protocol

LiTG-class: A31
UTE-class: 0,73 G + 0,08 T
IES-class: 42 - 71 - 90 - 90 - 80
TM5-class: BZ5

| | | |
|--|------------|----------|
| Divergences in the plane through maximum intensity: | Horizontal | Vertical |
| One half peak divergence | 102,2° | 130,3° |
| Half peak side angle (left) | -51,1° | -65,1° |
| Half peak side angle (right) | 51,1° | 65,1° |
| One tenth peak divergence | 156,4° | 226,5° |
| Tenth peak side angle (left) | -78,2° | -113,3° |
| Tenth peak side angle (right) | 78,2° | 113,3° |

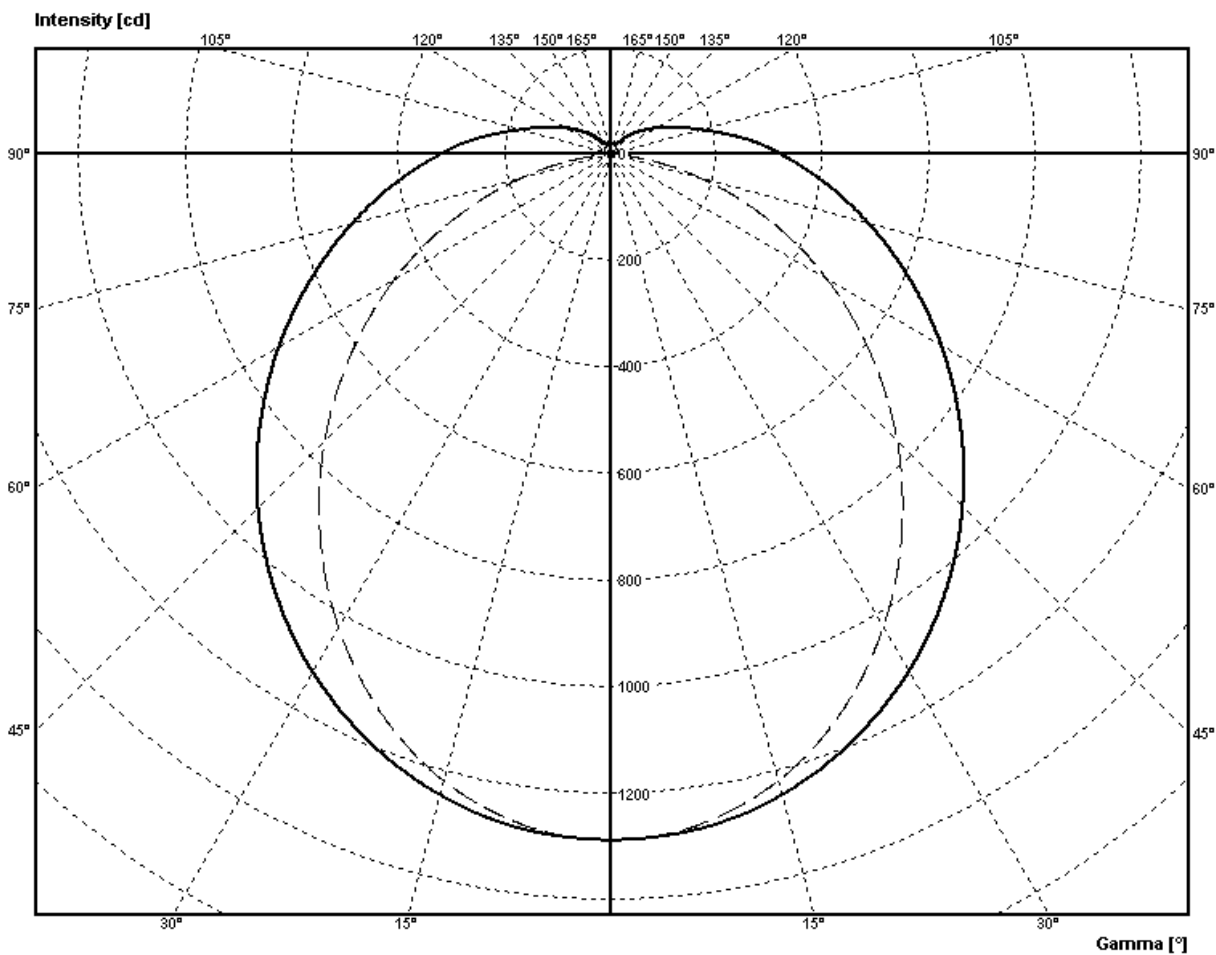
| | | | | | | | | | | |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| C-planes: | 0,0° | 15,0° | 30,0° | 45,0° | 60,0° | 75,0° | 90,0° | 105,0° | 120,0° | 135,0° |
| | 150,0° | 165,0° | 180,0° | 195,0° | 210,0° | 225,0° | 240,0° | 255,0°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

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Polar diagram TTP 70 LINE L0900 TOP 830 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 | 19,6 | 21,0 | 20,1 | 21,5 | 22,1 | 19,3 | 20,8 | 19,8 | 21,3 | 21,9 |
| 2H | 3H | 21,3 | 22,7 | 21,9 | 23,2 | 23,8 | 20,7 | 22,0 | 21,2 | 22,5 | 23,1 |
| 2H | 4H | 22,2 | 23,5 | 22,7 | 24,0 | 24,6 | 21,2 | 22,4 | 21,7 | 23,0 | 23,6 |
| 2H | 6H | 23,0 | 24,2 | 23,6 | 24,8 | 25,4 | 21,5 | 22,7 | 22,0 | 23,2 | 23,9 |
| 2H | 8H | 23,4 | 24,5 | 23,9 | 25,1 | 25,7 | 21,5 | 22,7 | 22,1 | 23,3 | 23,9 |
| 2H | 12H | 23,7 | 24,8 | 24,2 | 25,4 | 26,0 | 21,6 | 22,7 | 22,1 | 23,2 | 23,9 |
| 4H | 2H | 20,2 | 21,5 | 20,7 | 22,0 | 22,6 | 20,0 | 21,3 | 20,5 | 21,8 | 22,4 |
| 4H | 3H | 22,1 | 23,3 | 22,7 | 23,8 | 24,4 | 21,5 | 22,6 | 22,0 | 23,2 | 23,8 |
| 4H | 4H | 23,2 | 24,2 | 23,8 | 24,8 | 25,4 | 22,1 | 23,1 | 22,7 | 23,7 | 24,4 |
| 4H | 6H | 24,2 | 25,1 | 24,8 | 25,7 | 26,3 | 22,5 | 23,5 | 23,1 | 24,1 | 24,7 |
| 4H | 8H | 24,6 | 25,5 | 25,2 | 26,1 | 26,8 | 22,7 | 23,5 | 23,3 | 24,1 | 24,8 |
| 4H | 12H | 25,1 | 25,9 | 25,7 | 26,5 | 27,2 | 22,8 | 23,6 | 23,4 | 24,1 | 24,9 |
| 8H | 4H | 23,5 | 24,3 | 24,1 | 24,9 | 25,6 | 22,5 | 23,4 | 23,1 | 24,0 | 24,7 |
| 8H | 6H | 24,6 | 25,4 | 25,2 | 26,0 | 26,7 | 23,1 | 23,8 | 23,7 | 24,5 | 25,2 |
| 8H | 8H | 25,3 | 25,9 | 25,9 | 26,6 | 27,3 | 23,4 | 24,0 | 24,0 | 24,7 | 25,4 |
| 8H | 12H | 25,9 | 26,5 | 26,5 | 27,1 | 27,8 | 23,5 | 24,1 | 24,2 | 24,8 | 25,5 |
| 12H | 4H | 23,5 | 24,3 | 24,1 | 24,9 | 25,6 | 22,6 | 23,4 | 23,2 | 24,0 | 24,7 |
| 12H | 6H | 24,8 | 25,4 | 25,4 | 26,1 | 26,7 | 23,3 | 24,0 | 24,0 | 24,6 | 25,3 |
| 12H | 8H | 25,4 | 26,0 | 26,1 | 26,6 | 27,3 | 23,6 | 24,2 | 24,3 | 24,8 | 25,6 |

UGR values are corrected for lamp flux of 5550 lm by 6,0

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| Date: | 14-01-2020 10:47:12 | Output ratio: | 80,4 % |

Luminance [cd/m²] TTP 70 LINE L0900 TOP 830 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 | 10599,6 | 10535,8 | 10592,0 | 10877,3 | 11596,1 | 13101,8 | 15987,2 | 13101,8 | 11596,1 |
| 50,00 | 9841,58 | 9759,74 | 9771,46 | 9975,65 | 10610,7 | 12088,2 | 15148,8 | 12088,2 | 10610,7 |
| 55,00 | 9111,90 | 9024,89 | 8987,44 | 9112,07 | 9630,92 | 11023,0 | 14247,4 | 11023,0 | 9630,92 |
| 60,00 | 8436,11 | 8320,80 | 8251,25 | 8281,33 | 8663,80 | 9889,84 | 13282,8 | 9889,84 | 8663,80 |
| 65,00 | 7775,20 | 7662,85 | 7550,61 | 7494,26 | 7714,92 | 8705,69 | 12085,8 | 8705,69 | 7714,92 |
| 70,00 | 7164,44 | 7047,35 | 6891,06 | 6750,38 | 6778,89 | 7404,92 | 10579,8 | 7404,92 | 6778,89 |
| 75,00 | 6585,81 | 6475,81 | 6281,42 | 6056,18 | 5907,57 | 6031,82 | 8705,67 | 6031,82 | 5907,57 |
| 80,00 | 6062,87 | 5941,74 | 5727,64 | 5427,85 | 5074,67 | 4656,87 | 6284,15 | 4656,87 | 5074,67 |
| 85,00 | 5574,47 | 5451,27 | 5224,00 | 4857,03 | 4336,04 | 3408,73 | 3313,09 | 3408,73 | 4336,04 |

| G/C [cd/ | 135,00 | 150,00 | 165,00 | 180,00 | 195,00 | 210,00 | 225,00 | 240,00 | 255,00 |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 45,00 | 10877,3 | 10592,0 | 10535,8 | 10599,6 | 10535,8 | 10592,0 | 10877,3 | 11596,1 | 13101,8 |
| 50,00 | 9975,65 | 9771,46 | 9759,74 | 9841,58 | 9759,74 | 9771,46 | 9975,65 | 10610,7 | 12088,2 |
| 55,00 | 9112,07 | 8987,44 | 9024,89 | 9111,90 | 9024,89 | 8987,44 | 9112,07 | 9630,92 | 11023,0 |
| 60,00 | 8281,33 | 8251,25 | 8320,80 | 8436,11 | 8320,80 | 8251,25 | 8281,33 | 8663,80 | 9889,84 |
| 65,00 | 7494,26 | 7550,61 | 7662,85 | 7775,20 | 7662,85 | 7550,61 | 7494,26 | 7714,92 | 8705,69 |
| 70,00 | 6750,38 | 6891,06 | 7047,35 | 7164,44 | 7047,35 | 6891,06 | 6750,38 | 6778,89 | 7404,92 |
| 75,00 | 6056,18 | 6281,42 | 6475,81 | 6585,81 | 6475,81 | 6281,42 | 6056,18 | 5907,57 | 6031,82 |
| 80,00 | 5427,85 | 5727,64 | 5941,74 | 6062,87 | 5941,74 | 5727,64 | 5427,85 | 5074,67 | 4656,87 |
| 85,00 | 4857,03 | 5224,00 | 5451,27 | 5574,47 | 5451,27 | 5224,00 | 4857,03 | 4336,04 | 3408,73 |

| G/C [cd/ | 270,00 | 285,00 | 300,00 | 315,00 | 330,00 | 345,00 |
|----------|---------|---------|---------|---------|---------|---------|
| 45,00 | 15987,2 | 13101,8 | 11596,1 | 10877,3 | 10592,0 | 10535,8 |
| 50,00 | 15148,8 | 12088,2 | 10610,7 | 9975,65 | 9771,46 | 9759,74 |
| 55,00 | 14247,4 | 11023,0 | 9630,92 | 9112,07 | 8987,44 | 9024,89 |
| 60,00 | 13282,8 | 9889,84 | 8663,80 | 8281,33 | 8251,25 | 8320,80 |
| 65,00 | 12085,8 | 8705,69 | 7714,92 | 7494,26 | 7550,61 | 7662,85 |
| 70,00 | 10579,8 | 7404,92 | 6778,89 | 6750,38 | 6891,06 | 7047,35 |
| 75,00 | 8705,67 | 6031,82 | 5907,57 | 6056,18 | 6281,42 | 6475,81 |
| 80,00 | 6284,15 | 4656,87 | 5074,67 | 5427,85 | 5727,64 | 5941,74 |
| 85,00 | 3313,09 | 3408,73 | 4336,04 | 4857,03 | 5224,00 | 5451,27 |

HEADQUARTERS

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