

PHOTOMETRIC RESULTS

| | | | |
|-------------------|--------------------------------------|----------------------|------------------|
| Name: | CONCEPT O 65 D0900 LIGHT+ 840 | | |
| Number: | 90635L900 | Diameter: | 900 mm |
| Report: | 01-06-2021 | Length: | 0 mm |
| Meas.-no.: | 01 | Width: | 0 mm |
| Lamp type: | LED 840 - 01 | Height: | 85 mm |
| Number: | 1 | Power: | 53,44 W |
| Lamp flux: | 9100,00 lm | Operator: | INDEL AGUE GROUP |
| Date: | 01-06-2021 9:27:05 | Output ratio: | 59,6 % |

Protocol

LiTG-class: A40
UTE-class: 0,60 E
IES-class: 49 - 80 - 95 - 100 - 60
TM5-class: BZ4

Divergences in the plane through maximum intensity:

| | Horizontal | Vertical |
|-------------------------------|------------|----------|
| One half peak divergence | 102,4° | 102,6° |
| Half peak side angle (left) | -51,2° | -51,3° |
| Half peak side angle (right) | 51,2° | 51,3° |
| One tenth peak divergence | 160,4° | 160,7° |
| Tenth peak side angle (left) | -80,2° | -80,4° |
| Tenth peak side angle (right) | 80,2° | 80,4° |

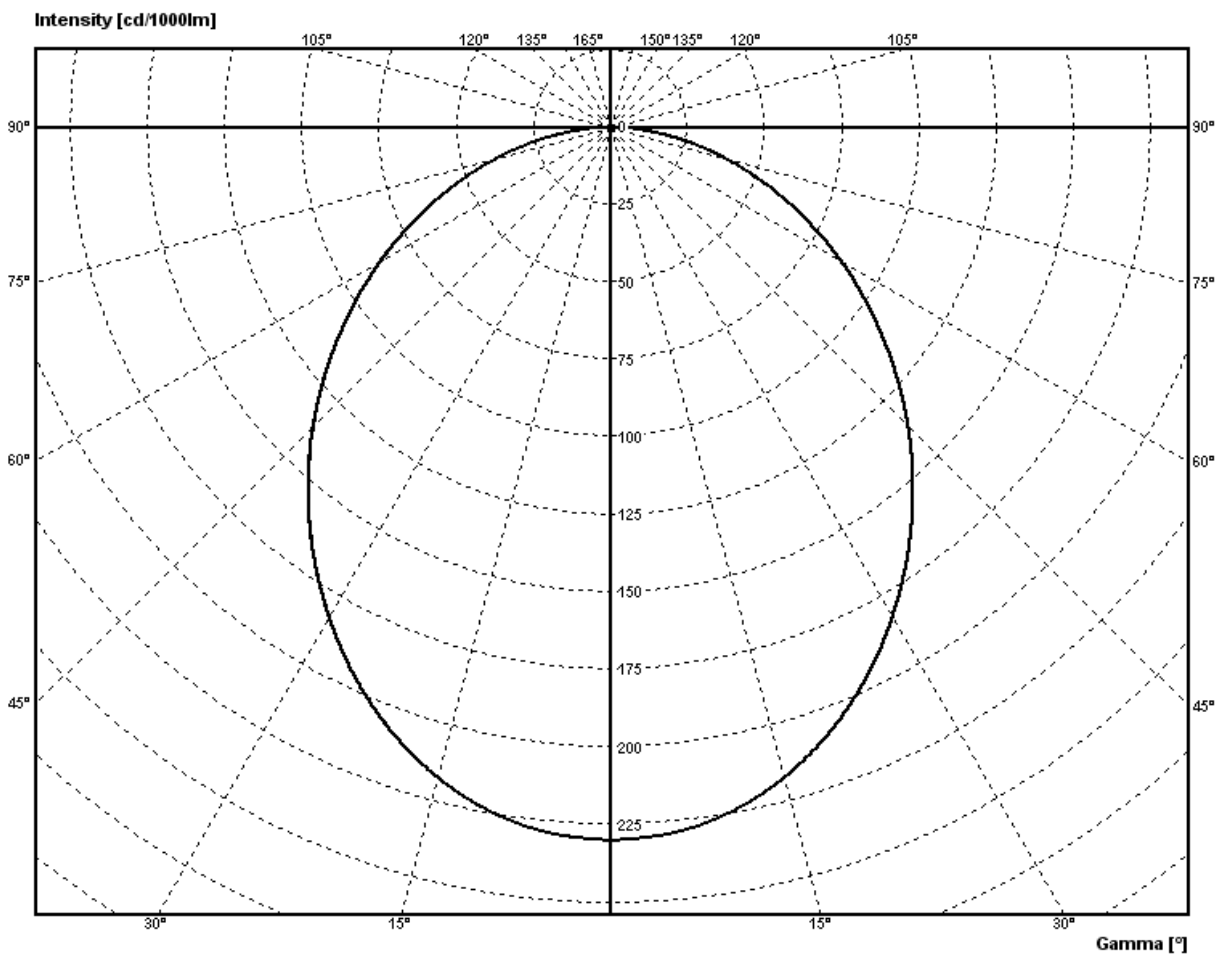
| | | | | | | | | | | |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| C-planes: | 0,0° | 15,0° | 30,0° | 45,0° | 60,0° | 75,0° | 90,0° | 105,0° | 120,0° | 135,0° |
| | 150,0° | 165,0° | 180,0° | 195,0° | 210,0° | 225,0° | 240,0° | 255,0°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

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Polar diagram CONCEPT O 65 D0900 LIGHT+ 840 / Direct 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 | 15,7 | 17,3 | 16,1 | 17,7 | 18,0 | 15,7 | 17,3 | 16,1 | 17,6 | 18,0 |
| 2H | 3H | 17,3 | 18,8 | 17,7 | 19,1 | 19,4 | 17,2 | 18,7 | 17,6 | 19,1 | 19,4 |
| 2H | 4H | 17,9 | 19,3 | 18,3 | 19,7 | 20,0 | 17,9 | 19,3 | 18,3 | 19,6 | 20,0 |
| 2H | 6H | 18,5 | 19,8 | 18,9 | 20,1 | 20,5 | 18,4 | 19,7 | 18,8 | 20,1 | 20,5 |
| 2H | 8H | 18,6 | 19,9 | 19,0 | 20,2 | 20,6 | 18,6 | 19,8 | 19,0 | 20,2 | 20,6 |
| 2H | 12H | 18,7 | 19,9 | 19,1 | 20,3 | 20,7 | 18,7 | 19,9 | 19,1 | 20,2 | 20,6 |
| 4H | 2H | 16,4 | 17,8 | 16,8 | 18,2 | 18,5 | 16,4 | 17,8 | 16,8 | 18,2 | 18,5 |
| 4H | 3H | 18,2 | 19,4 | 18,6 | 19,7 | 20,1 | 18,1 | 19,3 | 18,5 | 19,7 | 20,1 |
| 4H | 4H | 19,0 | 20,0 | 19,4 | 20,5 | 20,9 | 19,0 | 20,0 | 19,4 | 20,4 | 20,9 |
| 4H | 6H | 19,6 | 20,5 | 20,1 | 21,0 | 21,4 | 19,6 | 20,5 | 20,0 | 20,9 | 21,4 |
| 4H | 8H | 19,8 | 20,7 | 20,3 | 21,2 | 21,6 | 19,8 | 20,7 | 20,2 | 21,1 | 21,6 |
| 4H | 12H | 20,0 | 20,8 | 20,5 | 21,3 | 21,8 | 20,0 | 20,8 | 20,4 | 21,2 | 21,7 |
| 8H | 4H | 19,3 | 20,2 | 19,8 | 20,6 | 21,1 | 19,3 | 20,1 | 19,7 | 20,6 | 21,0 |
| 8H | 6H | 20,0 | 20,8 | 20,5 | 21,2 | 21,7 | 20,0 | 20,7 | 20,5 | 21,2 | 21,7 |
| 8H | 8H | 20,4 | 21,1 | 20,9 | 21,6 | 22,0 | 20,4 | 21,0 | 20,9 | 21,5 | 22,0 |
| 8H | 12H | 20,6 | 21,2 | 21,2 | 21,7 | 22,2 | 20,6 | 21,1 | 21,1 | 21,6 | 22,1 |
| 12H | 4H | 19,3 | 20,1 | 19,8 | 20,6 | 21,1 | 19,3 | 20,1 | 19,8 | 20,5 | 21,0 |
| 12H | 6H | 20,2 | 20,8 | 20,7 | 21,3 | 21,8 | 20,1 | 20,8 | 20,6 | 21,3 | 21,8 |
| 12H | 8H | 20,5 | 21,1 | 21,0 | 21,6 | 22,1 | 20,5 | 21,0 | 21,0 | 21,5 | 22,0 |

UGR values are corrected for lamp flux of 9100 lm by 7,7

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| Lamp flux: | 9100,00 lm | Operator: | INDEL AGUE GROUP |
| Date: | 01-06-2021 9:27:05 | Output ratio: | 59,6 % |

Luminance [cd/m²] CONCEPT O 65 D0900 LIGHT+ 840 / 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 | 2876,19 | 2873,64 | 2873,86 | 2872,11 | 2871,13 | 2870,65 | 2871,31 | 2870,65 | 2871,13 |
| 50,00 | 2775,54 | 2777,45 | 2774,41 | 2771,73 | 2772,66 | 2771,77 | 2770,41 | 2771,77 | 2772,66 |
| 55,00 | 2671,18 | 2676,13 | 2673,00 | 2671,13 | 2669,98 | 2671,03 | 2666,68 | 2671,03 | 2669,98 |
| 60,00 | 2571,66 | 2573,21 | 2573,91 | 2553,22 | 2566,40 | 2563,70 | 2560,02 | 2563,70 | 2566,40 |
| 65,00 | 2457,07 | 2460,04 | 2460,59 | 2457,77 | 2449,59 | 2447,84 | 2443,68 | 2447,84 | 2449,59 |
| 70,00 | 2342,45 | 2343,44 | 2339,63 | 2333,88 | 2330,89 | 2328,02 | 2324,76 | 2328,02 | 2330,89 |
| 75,00 | 2213,86 | 2219,34 | 2212,76 | 2196,70 | 2198,88 | 2185,37 | 2186,84 | 2185,37 | 2198,88 |
| 80,00 | 2063,95 | 2060,48 | 2059,87 | 2034,70 | 2038,97 | 2023,93 | 2021,63 | 2023,93 | 2038,97 |
| 85,00 | 1786,50 | 1831,44 | 1812,82 | 1773,18 | 1770,80 | 1767,25 | 1769,93 | 1767,25 | 1770,80 |

| G/C [cd/ | 135,00 | 150,00 | 165,00 | 180,00 | 195,00 | 210,00 | 225,00 | 240,00 | 255,00 |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 45,00 | 2872,11 | 2873,86 | 2873,64 | 2876,19 | 2873,64 | 2873,86 | 2872,11 | 2871,13 | 2870,65 |
| 50,00 | 2771,73 | 2774,41 | 2777,45 | 2775,54 | 2777,45 | 2774,41 | 2771,73 | 2772,66 | 2771,77 |
| 55,00 | 2671,13 | 2673,00 | 2676,13 | 2671,18 | 2676,13 | 2673,00 | 2671,13 | 2669,98 | 2671,03 |
| 60,00 | 2553,22 | 2573,91 | 2573,21 | 2571,66 | 2573,21 | 2573,91 | 2553,22 | 2566,40 | 2563,70 |
| 65,00 | 2457,77 | 2460,59 | 2460,04 | 2457,07 | 2460,04 | 2460,59 | 2457,77 | 2449,59 | 2447,84 |
| 70,00 | 2333,88 | 2339,63 | 2343,44 | 2342,45 | 2343,44 | 2339,63 | 2333,88 | 2330,89 | 2328,02 |
| 75,00 | 2196,70 | 2212,76 | 2219,34 | 2213,86 | 2219,34 | 2212,76 | 2196,70 | 2198,88 | 2185,37 |
| 80,00 | 2034,70 | 2059,87 | 2060,48 | 2063,95 | 2060,48 | 2059,87 | 2034,70 | 2038,97 | 2023,93 |
| 85,00 | 1773,18 | 1812,82 | 1831,44 | 1786,50 | 1831,44 | 1812,82 | 1773,18 | 1770,80 | 1767,25 |

| G/C [cd/ | 270,00 | 285,00 | 300,00 | 315,00 | 330,00 | 345,00 |
|----------|---------|---------|---------|---------|---------|---------|
| 45,00 | 2871,31 | 2870,65 | 2871,13 | 2872,11 | 2873,86 | 2873,64 |
| 50,00 | 2770,41 | 2771,77 | 2772,66 | 2771,73 | 2774,41 | 2777,45 |
| 55,00 | 2666,68 | 2671,03 | 2669,98 | 2671,13 | 2673,00 | 2676,13 |
| 60,00 | 2560,02 | 2563,70 | 2566,40 | 2553,22 | 2573,91 | 2573,21 |
| 65,00 | 2443,68 | 2447,84 | 2449,59 | 2457,77 | 2460,59 | 2460,04 |
| 70,00 | 2324,76 | 2328,02 | 2330,89 | 2333,88 | 2339,63 | 2343,44 |
| 75,00 | 2186,84 | 2185,37 | 2198,88 | 2196,70 | 2212,76 | 2219,34 |
| 80,00 | 2021,63 | 2023,93 | 2038,97 | 2034,70 | 2059,87 | 2060,48 |
| 85,00 | 1769,93 | 1767,25 | 1770,80 | 1773,18 | 1812,82 | 1831,44 |

HEADQUARTERS

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