

## PHOTOMETRIC RESULTS

|                   |                                   |                      |                 |
|-------------------|-----------------------------------|----------------------|-----------------|
| <b>Name:</b>      | WEBB SPOT /E 1 D080 PB 940 60° LO |                      |                 |
| <b>Number:</b>    | 90647L001                         | <b>Diameter:</b>     | 95 mm           |
| <b>Report:</b>    | 13-10-2021                        | <b>Length:</b>       | 0 mm            |
| <b>Meas.-no.:</b> | 01                                | <b>Width:</b>        | 0 mm            |
| <b>Lamp type:</b> | LED 940 - 01                      | <b>Height:</b>       | 150 mm          |
| <b>Number:</b>    | 1                                 | <b>Power:</b>        | 10,03 W         |
| <b>Lamp flux:</b> | 1350,00 lm                        | <b>Operator:</b>     | INDELAGUE GROUP |
| <b>Date:</b>      | 03/11/2021 14:53:34               | <b>Output ratio:</b> | 85,7 %          |

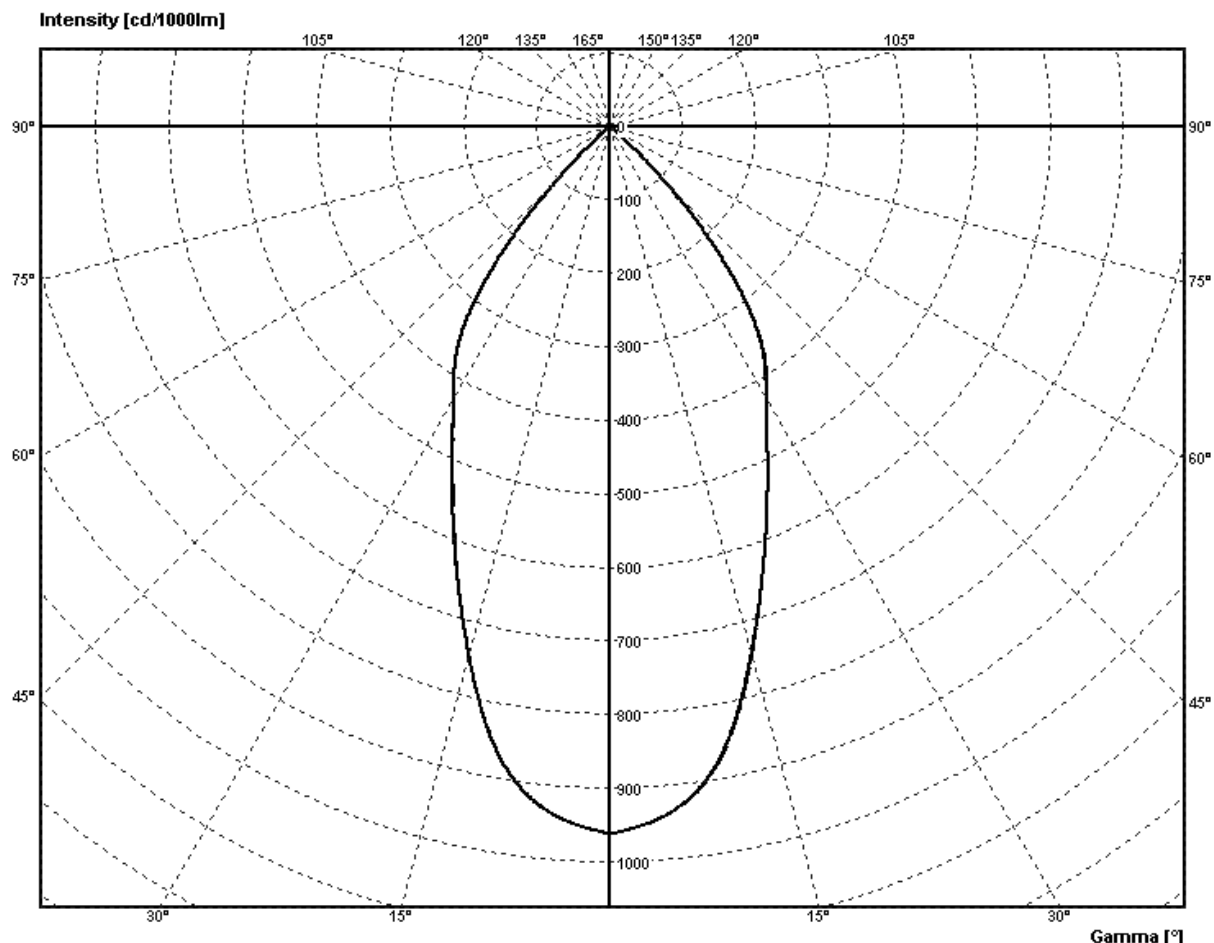
## Info

|   |                           |        |        |        |        |            |        |          |        |        |
|---|---------------------------|--------|--------|--------|--------|------------|--------|----------|--------|--------|
| LiTG-class:   | A60                       |        |        |        |        |            |        |          |        |        |
| UTE-class:  | 0,86 A                    |        |        |        |        |            |        |          |        |        |
| IES-class:  | 89 - 100 - 100 - 100 - 86 |        |        |        |        |            |        |          |        |        |
| TM5-class:  | BZ1                       |        |        |        |        |            |        |          |        |        |
|   |                           |        |        |        |        |            |        |          |        |        |
| Divergences in the plane through maximum intensity: |                           |        |        |        |        | Horizontal |        | Vertical |        |        |
| One half peak divergence:                           |                           |        |        |        |        | 53,2°      |        | 53,2°    |        |        |
| Half peak side angle (left):                        |                           |        |        |        |        | -26,7°     |        | -26,0°   |        |        |
| Half peak side angle (right):                       |                           |        |        |        |        | 26,5°      |        | 27,2°    |        |        |
| One tenth peak divergence:                          |                           |        |        |        |        | 92,3°      |        | 91,6°    |        |        |
| Tenth peak side angle (left):                       |                           |        |        |        |        | -46,1°     |        | -44,7°   |        |        |
| Tenth peak side angle (right):                      |                           |        |        |        |        | 46,2°      |        | 46,9°    |        |        |
|   |                           |        |        |        |        |            |        |          |        |        |
| 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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| <b>Report:</b>    | 13-10-2021                        | <b>Length:</b>       | 0 mm            |
| <b>Meas.-no.:</b> | 01                                | <b>Width:</b>        | 0 mm            |
| <b>Lamp type:</b> | LED 940 - 01                      | <b>Height:</b>       | 150 mm          |
| <b>Number:</b>    | 1                                 | <b>Power:</b>        | 10,03 W         |
| <b>Lamp flux:</b> | 1350,00 lm                        | <b>Operator:</b>     | INDELAGUE GROUP |
| <b>Date:</b>      | 03/11/2021 14:53:34               | <b>Output ratio:</b> | 85,7 %          |

Polar diagram WEBB SPOT /E 1 D080 PB 940 60° LO / Direct in 15° C / 5° G



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| <b>Number:</b>    | 90647L001                         | <b>Diameter:</b>     | 95 mm           |  |
| <b>Report:</b>    | 13-10-2021                        | <b>Length:</b>       | 0 mm            |  |
| <b>Meas.-no.:</b> | 01                                | <b>Width:</b>        | 0 mm            |  |
| <b>Lamp type:</b> | LED 940 - 01                      | <b>Height:</b>       | 150 mm          |  |
| <b>Number:</b>    | 1                                 | <b>Power:</b>        | 10,03 W         |  |
| <b>Lamp flux:</b> | 1350,00 lm                        | <b>Operator:</b>     | INDELAGUE GROUP |  |
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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  | 22,2             | 23,2 | 22,5 | 23,5 | 23,9 | 22,2           | 23,3 | 22,6 | 23,6 | 23,9 |
| 2H                       | 3H  | 22,0             | 22,9 | 22,4 | 23,3 | 23,6 | 22,0           | 23,0 | 22,4 | 23,3 | 23,6 |
| 2H                       | 4H  | 21,9             | 22,8 | 22,3 | 23,1 | 23,5 | 21,9           | 22,8 | 22,3 | 23,1 | 23,5 |
| 2H                       | 6H  | 21,8             | 22,6 | 22,2 | 23,0 | 23,4 | 21,8           | 22,6 | 22,2 | 23,0 | 23,4 |
| 2H                       | 8H  | 21,7             | 22,5 | 22,1 | 22,9 | 23,3 | 21,8           | 22,5 | 22,2 | 22,9 | 23,3 |
| 2H                       | 12H | 21,7             | 22,4 | 22,1 | 22,8 | 23,2 | 21,7           | 22,4 | 22,1 | 22,8 | 23,2 |
| 4H                       | 2H  | 21,9             | 22,8 | 22,3 | 23,1 | 23,5 | 21,9           | 22,8 | 22,3 | 23,1 | 23,5 |
| 4H                       | 3H  | 21,7             | 22,4 | 22,1 | 22,8 | 23,2 | 21,7           | 22,4 | 22,1 | 22,8 | 23,2 |
| 4H                       | 4H  | 21,6             | 22,2 | 22,0 | 22,6 | 23,1 | 21,6           | 22,2 | 22,1 | 22,7 | 23,1 |
| 4H                       | 6H  | 21,4             | 22,0 | 21,9 | 22,4 | 22,9 | 21,5           | 22,0 | 22,0 | 22,5 | 22,9 |
| 4H                       | 8H  | 21,4             | 21,9 | 21,9 | 22,4 | 22,8 | 21,4           | 21,9 | 21,9 | 22,4 | 22,9 |
| 4H                       | 12H | 21,3             | 21,8 | 21,8 | 22,3 | 22,8 | 21,4           | 21,8 | 21,9 | 22,3 | 22,8 |
| 8H                       | 4H  | 21,4             | 21,9 | 21,9 | 22,4 | 22,8 | 21,4           | 21,9 | 21,9 | 22,4 | 22,9 |
| 8H                       | 6H  | 21,2             | 21,7 | 21,7 | 22,1 | 22,6 | 21,3           | 21,7 | 21,8 | 22,2 | 22,7 |
| 8H                       | 8H  | 21,2             | 21,6 | 21,7 | 22,1 | 22,6 | 21,2           | 21,6 | 21,8 | 22,1 | 22,6 |
| 8H                       | 12H | 21,1             | 21,4 | 21,7 | 22,0 | 22,5 | 21,2           | 21,5 | 21,7 | 22,0 | 22,5 |
| 12H                      | 4H  | 21,3             | 21,8 | 21,8 | 22,3 | 22,8 | 21,4           | 21,8 | 21,9 | 22,3 | 22,8 |
| 12H                      | 6H  | 21,2             | 21,6 | 21,7 | 22,1 | 22,6 | 21,2           | 21,6 | 21,8 | 22,1 | 22,6 |
| 12H                      | 8H  | 21,1             | 21,4 | 21,7 | 22,0 | 22,5 | 21,2           | 21,5 | 21,7 | 22,0 | 22,5 |

UGR values are corrected for lamp flux of 1350 lm by 1,0

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| <b>Lamp flux:</b> | 1350,00 lm                        | <b>Operator:</b>     | INDEL AGUE GROUP |
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Luminance [cd/m<sup>2</sup>] WEBB SPOT /E 1 D080 PB 940 60° LO / 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    | 45622,8 | 45684,1 | 46074,6 | 46405,0 | 46518,8 | 47242,7 | 47401,6 | 47242,7 | 46518,8 |
| 50,00    | 11856,3 | 12276,1 | 12974,3 | 13079,5 | 13269,6 | 13943,1 | 14388,7 | 13943,1 | 13269,6 |
| 55,00    | 6450,00 | 6330,16 | 6267,81 | 6004,68 | 6141,73 | 5746,51 | 5805,00 | 5746,51 | 6141,73 |
| 60,00    | 887,90  | 740,90  | 667,10  | 666,55  | 667,46  | 666,59  | 591,93  | 666,59  | 667,46  |
| 65,00    | 350,16  | 350,62  | 350,81  | 350,53  | 351,00  | 350,53  | 350,16  | 350,53  | 351,00  |
| 70,00    | 432,67  | 433,25  | 433,48  | 433,13  | 433,71  | 433,13  | 432,67  | 433,13  | 433,71  |
| 75,00    | 571,76  | 572,52  | 572,83  | 572,37  | 573,13  | 572,37  | 571,76  | 572,37  | 573,13  |
| 80,00    | 852,20  | 853,34  | 853,79  | 853,11  | 854,24  | 853,11  | 852,20  | 853,11  | 854,24  |
| 85,00    | 1697,91 | 1700,18 | 1701,08 | 1699,72 | 1701,98 | 1699,72 | 1697,91 | 1699,72 | 1701,98 |

| G/C [cd] | 135,00  | 150,00  | 165,00  | 180,00  | 195,00  | 210,00  | 225,00  | 240,00  | 255,00  |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 45,00    | 46405,0 | 46074,6 | 45684,1 | 45622,8 | 45684,1 | 46074,6 | 46405,0 | 46518,8 | 47242,7 |
| 50,00    | 13079,5 | 12974,3 | 12276,1 | 11856,3 | 12276,1 | 12974,3 | 13079,5 | 13269,6 | 13943,1 |
| 55,00    | 6004,68 | 6267,81 | 6330,16 | 6450,00 | 6330,16 | 6267,81 | 6004,68 | 6141,73 | 5746,51 |
| 60,00    | 666,55  | 667,10  | 740,90  | 887,90  | 740,90  | 667,10  | 666,55  | 667,46  | 666,59  |
| 65,00    | 350,53  | 350,81  | 350,62  | 350,16  | 350,62  | 350,81  | 350,53  | 351,00  | 350,53  |
| 70,00    | 433,13  | 433,48  | 433,25  | 432,67  | 433,25  | 433,48  | 433,13  | 433,71  | 433,13  |
| 75,00    | 572,37  | 572,83  | 572,52  | 571,76  | 572,52  | 572,83  | 572,37  | 573,13  | 572,37  |
| 80,00    | 853,11  | 853,79  | 853,34  | 852,20  | 853,34  | 853,79  | 853,11  | 854,24  | 853,11  |
| 85,00    | 1699,72 | 1701,08 | 1700,18 | 1697,91 | 1700,18 | 1701,08 | 1699,72 | 1701,98 | 1699,72 |

| G/C [cd] | 270,00  | 285,00  | 300,00  | 315,00  | 330,00  | 345,00  |
|----------|---------|---------|---------|---------|---------|---------|
| 45,00    | 47401,6 | 47242,7 | 46518,8 | 46405,0 | 46074,6 | 45684,1 |
| 50,00    | 14388,7 | 13943,1 | 13269,6 | 13079,5 | 12974,3 | 12276,1 |
| 55,00    | 5805,00 | 5746,51 | 6141,73 | 6004,68 | 6267,81 | 6330,16 |
| 60,00    | 591,93  | 666,59  | 667,46  | 666,55  | 667,10  | 740,90  |
| 65,00    | 350,16  | 350,53  | 351,00  | 350,53  | 350,81  | 350,62  |
| 70,00    | 432,67  | 433,13  | 433,71  | 433,13  | 433,48  | 433,25  |
| 75,00    | 571,76  | 572,37  | 573,13  | 572,37  | 572,83  | 572,52  |
| 80,00    | 852,20  | 853,11  | 854,24  | 853,11  | 853,79  | 853,34  |
| 85,00    | 1697,91 | 1699,72 | 1701,98 | 1699,72 | 1701,08 | 1700,18 |