

## PHOTOMETRIC RESULTS

|                   |                        |                      |                 |
|-------------------|------------------------|----------------------|-----------------|
| <b>Name:</b>      | ELI /W L150 PB 930 35° |                      |                 |
| <b>Number:</b>    | 90646L150              | <b>Diameter:</b>     | 80 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 930 - 01           | <b>Height:</b>       | 150 mm          |
| <b>Number:</b>    | 1                      | <b>Power:</b>        | 10,03 W         |
| <b>Lamp flux:</b> | 1249,00 lm             | <b>Operator:</b>     | INDELAGUE GROUP |
| <b>Date:</b>      | 03/11/2021 12:42:50    | <b>Output ratio:</b> | 85,0 %          |

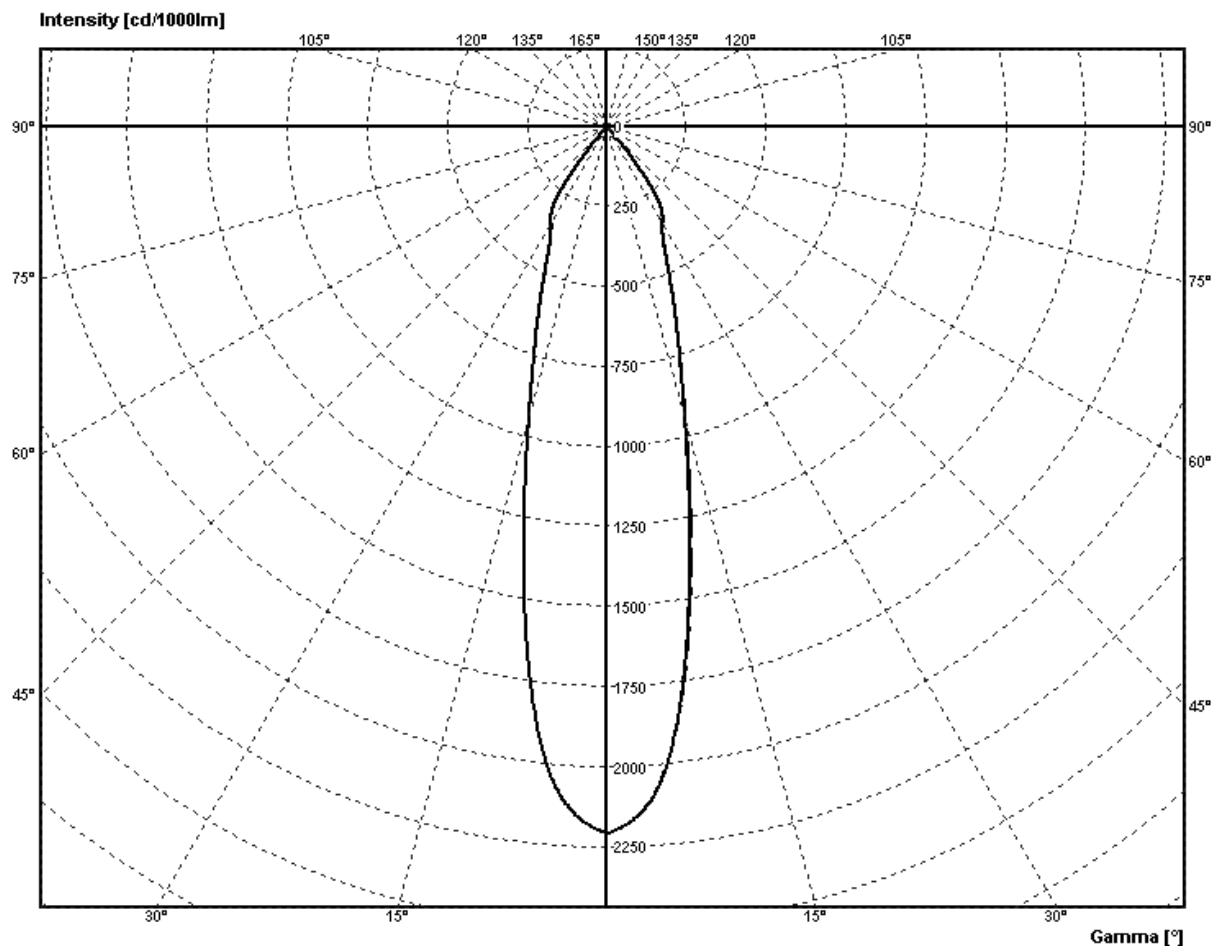
## Info

|  |                           |        |        |        |        |            |        |          |        |        |
|--|---------------------------|--------|--------|--------|--------|------------|--------|----------|--------|--------|
| <b>LiTG-class:</b>   | A60                       |        |        |        |        |            |        |          |        |        |
| <b>UTE-class:</b>  | Not available             |        |        |        |        |            |        |          |        |        |
| <b>IES-class:</b>  | 97 - 100 - 100 - 100 - 85 |        |        |        |        |            |        |          |        |        |
| <b>TM5-class:</b>  | BZ1                       |        |        |        |        |            |        |          |        |        |
|  |                           |        |        |        |        |            |        |          |        |        |
| <b>Divergences in the plane through maximum intensity:</b> |                           |        |        |        |        | Horizontal |        | Vertical |        |        |
| <b>One half peak divergence:</b>                           |                           |        |        |        |        | 27,2°      |        | 27,0°    |        |        |
| <b>Half peak side angle (left):</b>                        |                           |        |        |        |        | -12,9°     |        | -12,8°   |        |        |
| <b>Half peak side angle (right):</b>                       |                           |        |        |        |        | 14,3°      |        | 14,2°    |        |        |
| <b>One tenth peak divergence:</b>                          |                           |        |        |        |        | 73,3°      |        | 73,5°    |        |        |
| <b>Tenth peak side angle (left):</b>                       |                           |        |        |        |        | -35,9°     |        | -36,3°   |        |        |
| <b>Tenth peak side angle (right):</b>                      |                           |        |        |        |        | 37,4°      |        | 37,2°    |        |        |
|  |                           |        |        |        |        |            |        |          |        |        |
| <b>C-planes:</b>   | 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° |        |            |        |          |        |        |
|  |                           |        |        |        |        |            |        |          |        |        |
| <b>Gamma:</b>  | 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°  |        |

## PHOTOMETRIC RESULTS

|            |                        |               |                 |
|------------|------------------------|---------------|-----------------|
| Name:      | ELI /W L150 PB 930 35° |               |                 |
| Number:    | 90646L150              | Diameter:     | 80 mm           |
| Report:    | 13-10-2021             | Length:       | 0 mm            |
| Meas.-no.: | 01                     | Width:        | 0 mm            |
| Lamp type: | LED 930 - 01           | Height:       | 150 mm          |
| Number:    | 1                      | Power:        | 10,03 W         |
| Lamp flux: | 1249,00 lm             | Operator:     | INDELAGUE GROUP |
| Date:      | 03/11/2021 12:42:50    | Output ratio: | 85,0 %          |

Polar diagram ELI /W L150 PB 930 35° / Direct in 15° C / 5° G



## PHOTOMETRIC RESULTS

|                   |                        |                      |                 |  |
|-------------------|------------------------|----------------------|-----------------|--|
| <b>Name:</b>      | ELI /W L150 PB 930 35° |                      |                 |  |
| <b>Number:</b>    | 90646L150              | <b>Diameter:</b>     | 80 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 930 - 01           | <b>Height:</b>       | 150 mm          |  |
| <b>Number:</b>    | 1                      | <b>Power:</b>        | 10,03 W         |  |
| <b>Lamp flux:</b> | 1249,00 lm             | <b>Operator:</b>     | INDELAGUE GROUP |  |
| <b>Date:</b>      | 03/11/2021 12:42:50    | <b>Output ratio:</b> | 85,0 %          |  |

## 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  | 18,5             | 19,4 | 18,9 | 19,7 | 20,0 | 18,5           | 19,4 | 18,9 | 19,7 | 20,0 |
| 2H                       | 3H  | 18,3             | 19,1 | 18,7 | 19,4 | 19,8 | 18,3           | 19,0 | 18,7 | 19,4 | 19,7 |
| 2H                       | 4H  | 18,2             | 18,9 | 18,6 | 19,3 | 19,6 | 18,2           | 18,9 | 18,6 | 19,2 | 19,6 |
| 2H                       | 6H  | 18,1             | 18,8 | 18,5 | 19,1 | 19,5 | 18,1           | 18,7 | 18,5 | 19,1 | 19,5 |
| 2H                       | 8H  | 18,0             | 18,7 | 18,4 | 19,0 | 19,4 | 18,0           | 18,6 | 18,4 | 19,0 | 19,4 |
| 2H                       | 12H | 18,0             | 18,5 | 18,4 | 18,9 | 19,4 | 17,9           | 18,5 | 18,3 | 18,9 | 19,3 |
| 4H                       | 2H  | 18,2             | 18,9 | 18,6 | 19,3 | 19,6 | 18,2           | 18,9 | 18,6 | 19,2 | 19,6 |
| 4H                       | 3H  | 17,9             | 18,5 | 18,4 | 18,9 | 19,4 | 17,9           | 18,5 | 18,3 | 18,9 | 19,3 |
| 4H                       | 4H  | 17,9             | 18,4 | 18,3 | 18,8 | 19,2 | 17,8           | 18,3 | 18,2 | 18,7 | 19,2 |
| 4H                       | 6H  | 17,7             | 18,2 | 18,2 | 18,6 | 19,1 | 17,6           | 18,1 | 18,1 | 18,6 | 19,0 |
| 4H                       | 8H  | 17,6             | 18,1 | 18,1 | 18,5 | 19,0 | 17,6           | 18,0 | 18,1 | 18,5 | 18,9 |
| 4H                       | 12H | 17,6             | 18,0 | 18,1 | 18,4 | 19,0 | 17,5           | 17,9 | 18,0 | 18,4 | 18,9 |
| 8H                       | 4H  | 17,6             | 18,0 | 18,1 | 18,5 | 19,0 | 17,6           | 18,0 | 18,1 | 18,5 | 18,9 |
| 8H                       | 6H  | 17,4             | 17,8 | 18,0 | 18,3 | 18,8 | 17,4           | 17,8 | 17,9 | 18,2 | 18,7 |
| 8H                       | 8H  | 17,4             | 17,7 | 18,0 | 18,3 | 18,8 | 17,4           | 17,7 | 17,9 | 18,2 | 18,7 |
| 8H                       | 12H | 17,4             | 17,6 | 17,9 | 18,1 | 18,7 | 17,3           | 17,6 | 17,9 | 18,1 | 18,6 |
| 12H                      | 4H  | 17,6             | 18,0 | 18,1 | 18,4 | 18,9 | 17,5           | 17,9 | 18,0 | 18,4 | 18,9 |
| 12H                      | 6H  | 17,4             | 17,7 | 18,0 | 18,2 | 18,7 | 17,4           | 17,7 | 17,9 | 18,2 | 18,7 |
| 12H                      | 8H  | 17,4             | 17,6 | 17,9 | 18,1 | 18,6 | 17,3           | 17,5 | 17,8 | 18,1 | 18,6 |

UGR values are corrected for lamp flux of 1249 lm by 0,8

## PHOTOMETRIC RESULTS

|                   |                        |                      |                  |
|-------------------|------------------------|----------------------|------------------|
| <b>Name:</b>      | ELI /W L150 PB 930 35° |                      |                  |
| <b>Number:</b>    | 90646L150              | <b>Diameter:</b>     | 80 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 930 - 01           | <b>Height:</b>       | 150 mm           |
| <b>Number:</b>    | 1                      | <b>Power:</b>        | 10,03 W          |
| <b>Lamp flux:</b> | 1249,00 lm             | <b>Operator:</b>     | INDEL AGUE GROUP |
| <b>Date:</b>      | 03/11/2021 12:42:50    | <b>Output ratio:</b> | 85,0 %           |

Luminance [cd/m<sup>2</sup>] ELI /W L150 PB 930 35° / 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    | 6275,04 | 6235,00 | 6188,68 | 6177,98 | 6403,55 | 6543,85 | 6700,08 | 6543,85 | 6403,55 |
| 50,00    | 1610,69 | 1498,64 | 1500,14 | 1497,63 | 1616,87 | 1612,54 | 1612,30 | 1612,54 | 1616,87 |
| 55,00    | 773,59  | 839,83  | 840,69  | 839,17  | 905,92  | 903,54  | 903,42  | 903,54  | 905,92  |
| 60,00    | 591,62  | 518,59  | 445,05  | 444,27  | 445,38  | 444,21  | 444,16  | 444,21  | 445,38  |
| 65,00    | 349,97  | 350,67  | 351,03  | 350,41  | 351,29  | 350,37  | 350,32  | 350,37  | 351,29  |
| 70,00    | 432,44  | 433,31  | 433,75  | 432,98  | 434,07  | 432,93  | 432,88  | 432,93  | 434,07  |
| 75,00    | 571,46  | 429,24  | 429,63  | 572,17  | 430,06  | 429,02  | 572,03  | 429,02  | 430,06  |
| 80,00    | 851,75  | 853,46  | 640,36  | 639,40  | 641,00  | 639,45  | 852,60  | 639,45  | 641,00  |
| 85,00    | 1697,01 | 1700,42 | 1275,85 | 1699,14 | 1277,12 | 1274,03 | 1698,71 | 1274,03 | 1277,12 |

| G/C [cd] | 135,00  | 150,00  | 165,00  | 180,00  | 195,00  | 210,00  | 225,00  | 240,00  | 255,00  |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 45,00    | 6177,98 | 6188,68 | 6235,00 | 6275,04 | 6235,00 | 6188,68 | 6177,98 | 6403,55 | 6543,85 |
| 50,00    | 1497,63 | 1500,14 | 1498,64 | 1610,69 | 1498,64 | 1500,14 | 1497,63 | 1616,87 | 1612,54 |
| 55,00    | 839,17  | 840,69  | 839,83  | 773,59  | 839,83  | 840,69  | 839,17  | 905,92  | 903,54  |
| 60,00    | 444,27  | 445,05  | 518,59  | 591,62  | 518,59  | 445,05  | 444,27  | 445,38  | 444,21  |
| 65,00    | 350,41  | 351,03  | 350,67  | 349,97  | 350,67  | 351,03  | 350,41  | 351,29  | 350,37  |
| 70,00    | 432,98  | 433,75  | 433,31  | 432,44  | 433,31  | 433,75  | 432,98  | 434,07  | 432,93  |
| 75,00    | 572,17  | 429,63  | 429,24  | 571,46  | 429,24  | 429,63  | 572,17  | 430,06  | 429,02  |
| 80,00    | 639,40  | 640,36  | 853,46  | 851,75  | 853,46  | 640,36  | 639,40  | 641,00  | 639,45  |
| 85,00    | 1699,14 | 1275,85 | 1700,42 | 1697,01 | 1700,42 | 1275,85 | 1699,14 | 1277,12 | 1274,03 |

| G/C [cd] | 270,00  | 285,00  | 300,00  | 315,00  | 330,00  | 345,00  |
|----------|---------|---------|---------|---------|---------|---------|
| 45,00    | 6700,08 | 6543,85 | 6403,55 | 6177,98 | 6188,68 | 6235,00 |
| 50,00    | 1612,30 | 1612,54 | 1616,87 | 1497,63 | 1500,14 | 1498,64 |
| 55,00    | 903,42  | 903,54  | 905,92  | 839,17  | 840,69  | 839,83  |
| 60,00    | 444,16  | 444,21  | 445,38  | 444,27  | 445,05  | 518,59  |
| 65,00    | 350,32  | 350,37  | 351,29  | 350,41  | 351,03  | 350,67  |
| 70,00    | 432,88  | 432,93  | 434,07  | 432,98  | 433,75  | 433,31  |
| 75,00    | 572,03  | 429,02  | 430,06  | 572,17  | 429,63  | 429,24  |
| 80,00    | 852,60  | 639,45  | 641,00  | 639,40  | 640,36  | 853,46  |
| 85,00    | 1698,71 | 1274,03 | 1277,12 | 1699,14 | 1275,85 | 1700,42 |