

## PHOTOMETRIC RESULTS

|                   |                                   |                      |                 |
|-------------------|-----------------------------------|----------------------|-----------------|
| <b>Name:</b>      | ROFY 85 IP /E D0300 LIGHT+ 830 HO |                      |                 |
| <b>Number:</b>    | 90573L300                         | <b>Diameter:</b>     | 323 mm          |
| <b>Report:</b>    | 13-09-2021                        | <b>Length:</b>       | 0 mm            |
| <b>Meas.-no.:</b> | 01                                | <b>Width:</b>        | 0 mm            |
| <b>Lamp type:</b> | LED 830 - 01                      | <b>Height:</b>       | 87 mm           |
| <b>Number:</b>    | 1                                 | <b>Power:</b>        | 16,6 W          |
| <b>Lamp flux:</b> | 2260,00 lm                        | <b>Operator:</b>     | INDELAGUE GROUP |
| <b>Date:</b>      | 13/09/2021 09:20:25               | <b>Output ratio:</b> | 86,7 %          |

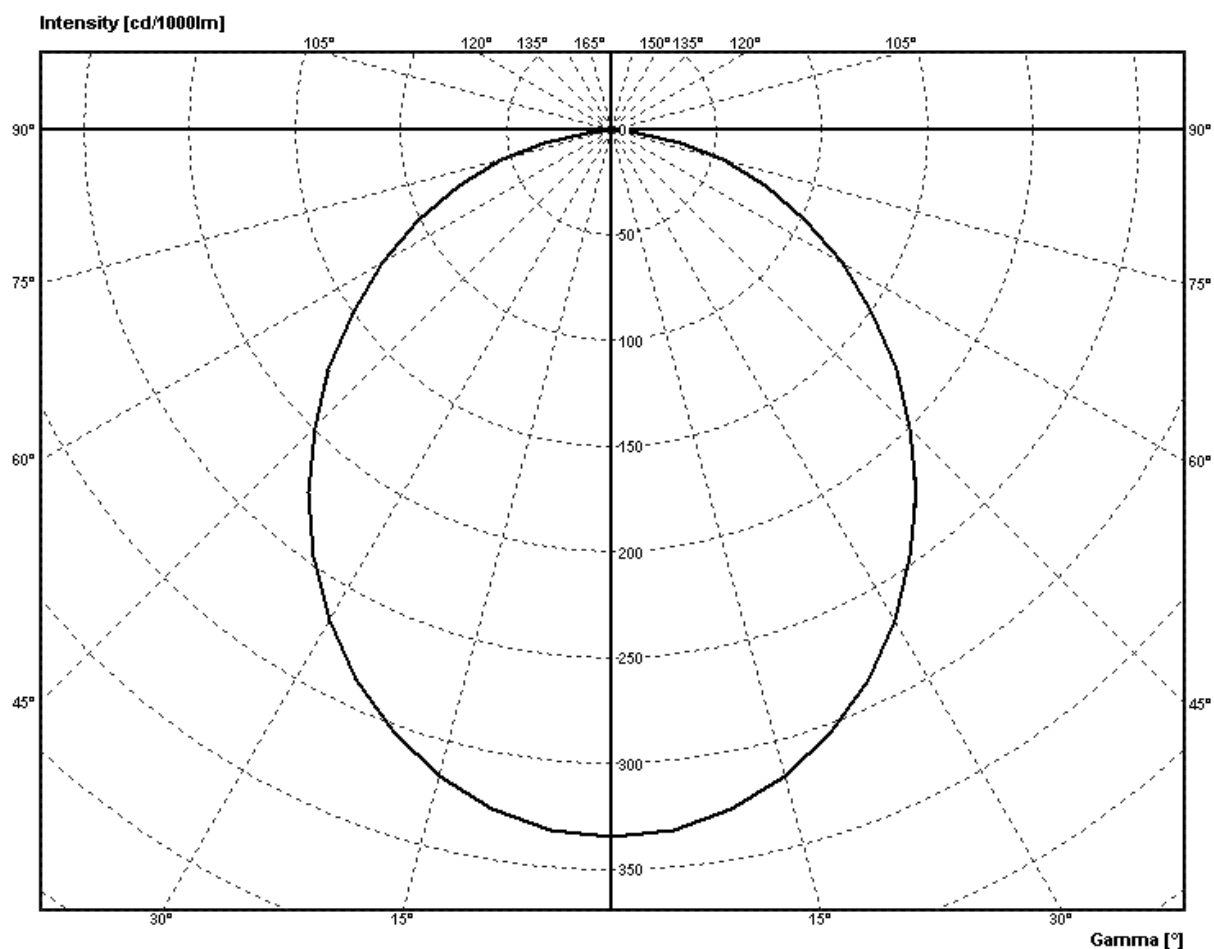
## Info

|                                                     |                         |        |        |        |        |            |        |          |        |        |
|-----------------------------------------------------|-------------------------|--------|--------|--------|--------|------------|--------|----------|--------|--------|
| LiTG-class:                                         | A40                     |        |        |        |        |            |        |          |        |        |
| UTE-class:                                          | 0,87 E                  |        |        |        |        |            |        |          |        |        |
| IES-class:                                          | 49 - 80 - 96 - 100 - 87 |        |        |        |        |            |        |          |        |        |
| TM5-class:                                          | BZ3/0.75/BZ4            |        |        |        |        |            |        |          |        |        |
|                                                     |                         |        |        |        |        |            |        |          |        |        |
| Divergences in the plane through maximum intensity: |                         |        |        |        |        | Horizontal |        | Vertical |        |        |
| One half peak divergence:                           |                         |        |        |        |        | 103,1°     |        | 103,3°   |        |        |
| Half peak side angle (left):                        |                         |        |        |        |        | -52,0°     |        | -51,4°   |        |        |
| Half peak side angle (right):                       |                         |        |        |        |        | 51,1°      |        | 51,9°    |        |        |
| One tenth peak divergence:                          |                         |        |        |        |        | 159,4°     |        | 159,6°   |        |        |
| Tenth peak side angle (left):                       |                         |        |        |        |        | -80,0°     |        | -79,5°   |        |        |
| Tenth peak side angle (right):                      |                         |        |        |        |        | 79,5°      |        | 80,1°    |        |        |
|                                                     |                         |        |        |        |        |            |        |          |        |        |
| 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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| Number:    | 90573L300                         | Diameter:     | 323 mm          |
| Report:    | 13-09-2021                        | Length:       | 0 mm            |
| Meas.-no.: | 01                                | Width:        | 0 mm            |
| Lamp type: | LED 830 - 01                      | Height:       | 87 mm           |
| Number:    | 1                                 | Power:        | 16,6 W          |
| Lamp flux: | 2260,00 lm                        | Operator:     | INDELAGUE GROUP |
| Date:      | 13/09/2021 09:20:25               | Output ratio: | 86,7 %          |

Polar diagram ROFY 85 IP /E D0300 LIGHT+ 830 HO / Direct in 15° C / 5° G



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| <b>Name:</b>      | ROFY 85 IP /E D0300 LIGHT+ 830 HO |                      |                 |  |
| <b>Number:</b>    | 90573L300                         | <b>Diameter:</b>     | 323 mm          |  |
| <b>Report:</b>    | 13-09-2021                        | <b>Length:</b>       | 0 mm            |  |
| <b>Meas.-no.:</b> | 01                                | <b>Width:</b>        | 0 mm            |  |
| <b>Lamp type:</b> | LED 830 - 01                      | <b>Height:</b>       | 87 mm           |  |
| <b>Number:</b>    | 1                                 | <b>Power:</b>        | 16,6 W          |  |
| <b>Lamp flux:</b> | 2260,00 lm                        | <b>Operator:</b>     | INDELAGUE GROUP |  |
| <b>Date:</b>      | 13/09/2021 09:20:25               | <b>Output ratio:</b> | 86,7 %          |  |

## UGR Unified Glare Ratios

|                                 |                  |            |            |            |            |                |            |            |            |            |
|---------------------------------|------------------|------------|------------|------------|------------|----------------|------------|------------|------------|------------|
| <b>Ceiling reflectance</b>      | <b>0,7</b>       | <b>0,7</b> | <b>0,5</b> | <b>0,5</b> | <b>0,3</b> | <b>0,7</b>     | <b>0,7</b> | <b>0,5</b> | <b>0,5</b> | <b>0,3</b> |
| <b>Wall reflectance</b>         | <b>0,5</b>       | <b>0,3</b> | <b>0,5</b> | <b>0,3</b> | <b>0,3</b> | <b>0,5</b>     | <b>0,3</b> | <b>0,5</b> | <b>0,3</b> | <b>0,3</b> |
| <b>Floor cavity reflectance</b> | <b>0,2</b>       | <b>0,2</b> | <b>0,2</b> | <b>0,2</b> | <b>0,2</b> | <b>0,2</b>     | <b>0,2</b> | <b>0,2</b> | <b>0,2</b> | <b>0,2</b> |
| <b>Room dimension</b>           | Viewed crosswise |            |            |            |            | Viewed endwise |            |            |            |            |
| <b>2H</b>                       | <b>2H</b>        | 20,2       | 21,8       | 20,6       | 22,1       | 22,4           | 20,2       | 21,8       | 20,5       | 22,1       |
| <b>2H</b>                       | <b>3H</b>        | 21,7       | 23,2       | 22,1       | 23,5       | 23,9           | 21,7       | 23,2       | 22,1       | 23,5       |
| <b>2H</b>                       | <b>4H</b>        | 22,3       | 23,7       | 22,7       | 24,1       | 24,4           | 22,3       | 23,7       | 22,7       | 24,0       |
| <b>2H</b>                       | <b>6H</b>        | 22,8       | 24,1       | 23,2       | 24,5       | 24,9           | 22,8       | 24,1       | 23,2       | 24,4       |
| <b>2H</b>                       | <b>8H</b>        | 22,9       | 24,2       | 23,3       | 24,5       | 24,9           | 22,9       | 24,1       | 23,3       | 24,5       |
| <b>2H</b>                       | <b>12H</b>       | 23,0       | 24,2       | 23,4       | 24,6       | 25,0           | 23,0       | 24,1       | 23,4       | 24,5       |
| <b>4H</b>                       | <b>2H</b>        | 20,9       | 22,3       | 21,3       | 22,6       | 23,0           | 20,9       | 22,3       | 21,3       | 22,6       |
| <b>4H</b>                       | <b>3H</b>        | 22,6       | 23,8       | 23,0       | 24,1       | 24,6           | 22,6       | 23,7       | 23,0       | 24,1       |
| <b>4H</b>                       | <b>4H</b>        | 23,4       | 24,4       | 23,8       | 24,8       | 25,3           | 23,4       | 24,4       | 23,8       | 24,8       |
| <b>4H</b>                       | <b>6H</b>        | 23,9       | 24,9       | 24,4       | 25,3       | 25,7           | 23,9       | 24,8       | 24,4       | 25,3       |
| <b>4H</b>                       | <b>8H</b>        | 24,1       | 25,0       | 24,6       | 25,4       | 25,9           | 24,1       | 25,0       | 24,6       | 25,4       |
| <b>4H</b>                       | <b>12H</b>       | 24,3       | 25,1       | 24,7       | 25,5       | 26,0           | 24,2       | 25,0       | 24,7       | 25,4       |
| <b>8H</b>                       | <b>4H</b>        | 23,6       | 24,5       | 24,1       | 25,0       | 25,4           | 23,6       | 24,5       | 24,1       | 24,9       |
| <b>8H</b>                       | <b>6H</b>        | 24,3       | 25,1       | 24,8       | 25,5       | 26,0           | 24,3       | 25,0       | 24,8       | 25,5       |
| <b>8H</b>                       | <b>8H</b>        | 24,6       | 25,3       | 25,2       | 25,8       | 26,3           | 24,6       | 25,2       | 25,1       | 25,7       |
| <b>8H</b>                       | <b>12H</b>       | 24,8       | 25,4       | 25,3       | 25,9       | 26,4           | 24,8       | 25,3       | 25,3       | 25,8       |
| <b>12H</b>                      | <b>4H</b>        | 23,7       | 24,5       | 24,2       | 24,9       | 25,4           | 23,7       | 24,5       | 24,1       | 24,9       |
| <b>12H</b>                      | <b>6H</b>        | 24,4       | 25,1       | 24,9       | 25,6       | 26,1           | 24,4       | 25,0       | 24,9       | 25,5       |
| <b>12H</b>                      | <b>8H</b>        | 24,7       | 25,3       | 25,3       | 25,8       | 26,3           | 24,7       | 25,2       | 25,2       | 25,7       |

UGR values are corrected for lamp flux of 2260 lm by 2,8

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| <b>Lamp type:</b> | LED 830 - 01                      | <b>Height:</b>       | 87 mm            |
| <b>Number:</b>    | 1                                 | <b>Power:</b>        | 16,6 W           |
| <b>Lamp flux:</b> | 2260,00 lm                        | <b>Operator:</b>     | INDEL AGUE GROUP |
| <b>Date:</b>      | 13/09/2021 09:20:25               | <b>Output ratio:</b> | 86,7 %           |

Luminance [cd/m<sup>2</sup>] ROFY 85 IP /E D0300 LIGHT+ 830 HO / 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    | 10353,1 | 10354,6 | 10345,9 | 10354,6 | 10342,7 | 10350,6 | 10338,8 | 10350,6 | 10342,7 |
| 50,00    | 10005,6 | 9993,03 | 10001,5 | 9984,32 | 9988,68 | 9975,61 | 9979,97 | 9975,61 | 9988,68 |
| 55,00    | 9623,69 | 9617,85 | 9598,82 | 9608,08 | 9608,08 | 9598,32 | 9593,44 | 9598,32 | 9608,08 |
| 60,00    | 9216,64 | 9208,28 | 9204,07 | 9213,86 | 9202,67 | 9197,07 | 9202,67 | 9197,07 | 9202,67 |
| 65,00    | 8773,66 | 8788,31 | 8764,44 | 8755,18 | 8741,94 | 8748,56 | 8741,94 | 8748,56 | 8741,94 |
| 70,00    | 8273,98 | 8265,19 | 8253,24 | 8248,80 | 8224,25 | 8240,62 | 8248,80 | 8240,62 | 8224,25 |
| 75,00    | 7692,53 | 7688,80 | 7642,02 | 7623,86 | 7613,05 | 7634,67 | 7634,67 | 7634,67 | 7613,05 |
| 80,00    | 6860,01 | 6850,21 | 6814,84 | 6721,22 | 6721,22 | 6737,33 | 6801,81 | 6737,33 | 6721,22 |
| 85,00    | 5197,62 | 5234,51 | 5071,63 | 4977,57 | 4913,35 | 4849,12 | 4945,46 | 4849,12 | 4913,35 |

| G/C [cd] | 135,00  | 150,00  | 165,00  | 180,00  | 195,00  | 210,00  | 225,00  | 240,00  | 255,00  |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 45,00    | 10354,6 | 10345,9 | 10354,6 | 10353,1 | 10354,6 | 10345,9 | 10354,6 | 10342,7 | 10350,6 |
| 50,00    | 9984,32 | 10001,5 | 9993,03 | 10005,6 | 9993,03 | 10001,5 | 9984,32 | 9988,68 | 9975,61 |
| 55,00    | 9608,08 | 9598,82 | 9617,85 | 9623,69 | 9617,85 | 9598,82 | 9608,08 | 9608,08 | 9598,32 |
| 60,00    | 9213,86 | 9204,07 | 9208,28 | 9216,64 | 9208,28 | 9204,07 | 9213,86 | 9202,67 | 9197,07 |
| 65,00    | 8755,18 | 8764,44 | 8788,31 | 8773,66 | 8788,31 | 8764,44 | 8755,18 | 8741,94 | 8748,56 |
| 70,00    | 8248,80 | 8253,24 | 8265,19 | 8273,98 | 8265,19 | 8253,24 | 8248,80 | 8224,25 | 8240,62 |
| 75,00    | 7623,86 | 7642,02 | 7688,80 | 7692,53 | 7688,80 | 7642,02 | 7623,86 | 7613,05 | 7634,67 |
| 80,00    | 6721,22 | 6814,84 | 6850,21 | 6860,01 | 6850,21 | 6814,84 | 6721,22 | 6721,22 | 6737,33 |
| 85,00    | 4977,57 | 5071,63 | 5234,51 | 5197,62 | 5234,51 | 5071,63 | 4977,57 | 4913,35 | 4849,12 |

| G/C [cd] | 270,00  | 285,00  | 300,00  | 315,00  | 330,00  | 345,00  |
|----------|---------|---------|---------|---------|---------|---------|
| 45,00    | 10338,8 | 10350,6 | 10342,7 | 10354,6 | 10345,9 | 10354,6 |
| 50,00    | 9979,97 | 9975,61 | 9988,68 | 9984,32 | 10001,5 | 9993,03 |
| 55,00    | 9593,44 | 9598,32 | 9608,08 | 9608,08 | 9598,82 | 9617,85 |
| 60,00    | 9202,67 | 9197,07 | 9202,67 | 9213,86 | 9204,07 | 9208,28 |
| 65,00    | 8741,94 | 8748,56 | 8741,94 | 8755,18 | 8764,44 | 8788,31 |
| 70,00    | 8248,80 | 8240,62 | 8224,25 | 8248,80 | 8253,24 | 8265,19 |
| 75,00    | 7634,67 | 7634,67 | 7613,05 | 7623,86 | 7642,02 | 7688,80 |
| 80,00    | 6801,81 | 6737,33 | 6721,22 | 6721,22 | 6814,84 | 6850,21 |
| 85,00    | 4945,46 | 4849,12 | 4913,35 | 4977,57 | 5071,63 | 5234,51 |