

## PHOTOMETRIC RESULTS

|                   |                                 |                      |                 |
|-------------------|---------------------------------|----------------------|-----------------|
| <b>Name:</b>      | CORA /C L90W30 2 BOPTICS 840 LO |                      |                 |
| <b>Number:</b>    | 90725L290                       | <b>Diameter:</b>     | 0 mm            |
| <b>Report:</b>    | 20-10-2022                      | <b>Length:</b>       | 897 mm          |
| <b>Meas.-no.:</b> | 01                              | <b>Width:</b>        | 297 mm          |
| <b>Lamp type:</b> | LED 840 - 01                    | <b>Height:</b>       | 30 mm           |
| <b>Number:</b>    | 1                               | <b>Power:</b>        | 19,84 W         |
| <b>Lamp flux:</b> | 3200,00 lm                      | <b>Operator:</b>     | INDELAGUE GROUP |
| <b>Date:</b>      | 20/10/2022 10:51:06             | <b>Output ratio:</b> | 82,0 %          |

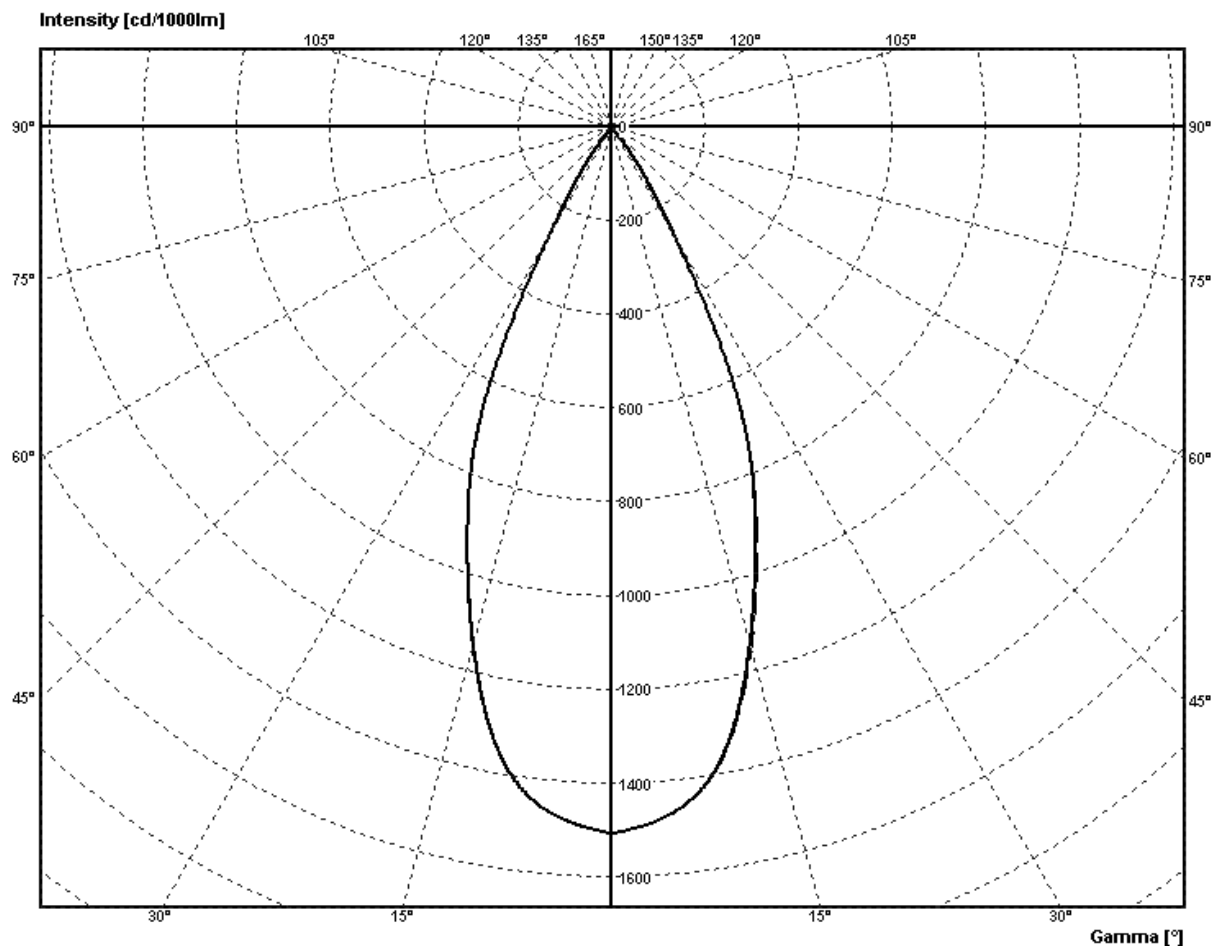
## Info

|  |                           |        |        |        |        |            |        |          |        |        |
|--|---------------------------|--------|--------|--------|--------|------------|--------|----------|--------|--------|
| <b>LiTG-class:</b>   | A60                       |        |        |        |        |            |        |          |        |        |
| <b>UTE-class:</b>  | Not available             |        |        |        |        |            |        |          |        |        |
| <b>IES-class:</b>  | 99 - 100 - 100 - 100 - 82 |        |        |        |        |            |        |          |        |        |
| <b>TM5-class:</b>  | BZ1                       |        |        |        |        |            |        |          |        |        |
|  |                           |        |        |        |        |            |        |          |        |        |
| <b>Divergences in the plane through maximum intensity:</b> |                           |        |        |        |        | Horizontal |        | Vertical |        |        |
| <b>One half peak divergence:</b>                           |                           |        |        |        |        | 45,7°      |        | 45,5°    |        |        |
| <b>Half peak side angle (left):</b>                        |                           |        |        |        |        | -22,7°     |        | -22,9°   |        |        |
| <b>Half peak side angle (right):</b>                       |                           |        |        |        |        | 23,0°      |        | 22,6°    |        |        |
| <b>One tenth peak divergence:</b>                          |                           |        |        |        |        | 67,8°      |        | 67,4°    |        |        |
| <b>Tenth peak side angle (left):</b>                       |                           |        |        |        |        | -34,0°     |        | -33,5°   |        |        |
| <b>Tenth peak side angle (right):</b>                      |                           |        |        |        |        | 33,7°      |        | 33,8°    |        |        |
|  |                           |        |        |        |        |            |        |          |        |        |
| <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°  |        |

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| Report:    | 20-10-2022                      | Length:       | 897 mm          |
| Meas.-no.: | 01                              | Width:        | 297 mm          |
| Lamp type: | LED 840 - 01                    | Height:       | 30 mm           |
| Number:    | 1                               | Power:        | 19,84 W         |
| Lamp flux: | 3200,00 lm                      | Operator:     | INDELAGUE GROUP |
| Date:      | 20/10/2022 10:51:06             | Output ratio: | 82,0 %          |

Polar diagram CORA /C L90W30 2 BOPTICS 840 LO / Direct in 15° C / 5° G



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|                   |                                 |                      |                 |  |
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| <b>Name:</b>      | CORA /C L90W30 2 BOPTICS 840 LO |                      |                 |  |
| <b>Number:</b>    | 90725L290                       | <b>Diameter:</b>     | 0 mm            |  |
| <b>Report:</b>    | 20-10-2022                      | <b>Length:</b>       | 897 mm          |  |
| <b>Meas.-no.:</b> | 01                              | <b>Width:</b>        | 297 mm          |  |
| <b>Lamp type:</b> | LED 840 - 01                    | <b>Height:</b>       | 30 mm           |  |
| <b>Number:</b>    | 1                               | <b>Power:</b>        | 19,84 W         |  |
| <b>Lamp flux:</b> | 3200,00 lm                      | <b>Operator:</b>     | INDELAGUE GROUP |  |
| <b>Date:</b>      | 20/10/2022 10:51:06             | <b>Output ratio:</b> | 82,0 %          |  |

## 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>        | 4,8        | 5,6        | 5,2        | 5,9        | 6,2            | 5,1        | 5,8        | 5,4        | 6,1        |
| <b>2H</b>                       | <b>3H</b>        | 4,6        | 5,2        | 4,9        | 5,6        | 5,9            | 4,8        | 5,5        | 5,2        | 5,8        |
| <b>2H</b>                       | <b>4H</b>        | 4,4        | 5,1        | 4,8        | 5,4        | 5,8            | 4,7        | 5,3        | 5,1        | 5,7        |
| <b>2H</b>                       | <b>6H</b>        | 4,3        | 4,9        | 4,7        | 5,3        | 5,7            | 4,6        | 5,1        | 5,0        | 5,5        |
| <b>2H</b>                       | <b>8H</b>        | 4,2        | 4,8        | 4,7        | 5,2        | 5,6            | 4,5        | 5,0        | 4,9        | 5,4        |
| <b>2H</b>                       | <b>12H</b>       | 4,2        | 4,7        | 4,6        | 5,1        | 5,5            | 4,4        | 4,9        | 4,8        | 5,3        |
| <b>4H</b>                       | <b>2H</b>        | 4,4        | 5,1        | 4,8        | 5,4        | 5,8            | 4,7        | 5,3        | 5,1        | 5,7        |
| <b>4H</b>                       | <b>3H</b>        | 4,2        | 4,7        | 4,6        | 5,1        | 5,5            | 4,4        | 4,9        | 4,8        | 5,3        |
| <b>4H</b>                       | <b>4H</b>        | 4,1        | 4,5        | 4,5        | 4,9        | 5,4            | 4,3        | 4,7        | 4,7        | 5,2        |
| <b>4H</b>                       | <b>6H</b>        | 3,9        | 4,3        | 4,4        | 4,7        | 5,2            | 4,1        | 4,5        | 4,6        | 5,0        |
| <b>4H</b>                       | <b>8H</b>        | 3,8        | 4,2        | 4,3        | 4,6        | 5,1            | 4,0        | 4,4        | 4,5        | 4,9        |
| <b>4H</b>                       | <b>12H</b>       | 3,7        | 4,1        | 4,2        | 4,6        | 5,1            | 4,0        | 4,3        | 4,5        | 4,8        |
| <b>8H</b>                       | <b>4H</b>        | 3,8        | 4,2        | 4,3        | 4,6        | 5,1            | 4,0        | 4,4        | 4,5        | 4,9        |
| <b>8H</b>                       | <b>6H</b>        | 3,6        | 3,9        | 4,1        | 4,4        | 4,9            | 3,9        | 4,2        | 4,4        | 4,7        |
| <b>8H</b>                       | <b>8H</b>        | 3,6        | 3,9        | 4,1        | 4,4        | 4,9            | 3,8        | 4,1        | 4,4        | 4,6        |
| <b>8H</b>                       | <b>12H</b>       | 3,5        | 3,7        | 4,1        | 4,2        | 4,8            | 3,8        | 4,0        | 4,3        | 4,5        |
| <b>12H</b>                      | <b>4H</b>        | 3,7        | 4,1        | 4,2        | 4,5        | 5,1            | 4,0        | 4,3        | 4,5        | 4,8        |
| <b>12H</b>                      | <b>6H</b>        | 3,6        | 3,8        | 4,1        | 4,4        | 4,9            | 3,8        | 4,1        | 4,4        | 4,6        |
| <b>12H</b>                      | <b>8H</b>        | 3,5        | 3,7        | 4,0        | 4,2        | 4,8            | 3,7        | 4,0        | 4,3        | 4,5        |

UGR values are corrected for lamp flux of 3200 lm by 4,0

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| <b>Number:</b>    | 1                               | <b>Power:</b>        | 19,84 W         |
| <b>Lamp flux:</b> | 3200,00 lm                      | <b>Operator:</b>     | INDELAGUE GROUP |
| <b>Date:</b>      | 20/10/2022 10:51:06             | <b>Output ratio:</b> | 82,0 %          |

Luminance [cd/m<sup>2</sup>] CORA /C L90W30 2 BOPTICS 840 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    | 82,76 | 96,11 | 131,62 | 175,95 | 156,79 | 116,81 | 106,48 | 116,81 | 156,79 |
| 50,00    | 32,51 | 39,04 | 48,81  | 63,43  | 55,32  | 43,92  | 42,30  | 43,92  | 55,32  |
| 55,00    | 14,57 | 21,87 | 25,52  | 30,99  | 31,00  | 23,70  | 21,88  | 23,70  | 31,00  |
| 60,00    | 8,36  | 8,36  | 12,55  | 16,73  | 16,73  | 16,73  | 8,37   | 16,73  | 16,73  |
| 65,00    | 9,89  | 9,90  | 9,90   | 9,90   | 9,90   | 9,90   | 9,90   | 9,90   | 9,90   |
| 70,00    | 12,22 | 12,23 | 12,23  | 12,23  | 12,23  | 12,23  | 12,23  | 12,23  | 12,23  |
| 75,00    | 16,15 | 16,16 | 16,16  | 16,16  | 16,16  | 16,16  | 16,16  | 16,16  | 16,16  |
| 80,00    | 24,07 | 24,08 | 24,09  | 24,08  | 24,09  | 24,08  | 24,09  | 24,08  | 24,09  |
| 85,00    | 47,96 | 47,98 | 47,99  | 47,98  | 48,00  | 47,98  | 47,99  | 47,98  | 48,00  |

|          |        |        |        |        |        |        |        |        |        |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| G/C [cd] | 135,00 | 150,00 | 165,00 | 180,00 | 195,00 | 210,00 | 225,00 | 240,00 | 255,00 |
| 45,00    | 175,95 | 131,62 | 96,11  | 82,76  | 96,11  | 131,62 | 175,95 | 156,79 | 116,81 |
| 50,00    | 63,43  | 48,81  | 39,04  | 32,51  | 39,04  | 48,81  | 63,43  | 55,32  | 43,92  |
| 55,00    | 30,99  | 25,52  | 21,87  | 14,57  | 21,87  | 25,52  | 30,99  | 31,00  | 23,70  |
| 60,00    | 16,73  | 12,55  | 8,36   | 8,36   | 8,36   | 12,55  | 16,73  | 16,73  | 16,73  |
| 65,00    | 9,90   | 9,90   | 9,90   | 9,89   | 9,90   | 9,90   | 9,90   | 9,90   | 9,90   |
| 70,00    | 12,23  | 12,23  | 12,23  | 12,22  | 12,23  | 12,23  | 12,23  | 12,23  | 12,23  |
| 75,00    | 16,16  | 16,16  | 16,16  | 16,15  | 16,16  | 16,16  | 16,16  | 16,16  | 16,16  |
| 80,00    | 24,08  | 24,09  | 24,08  | 24,07  | 24,08  | 24,09  | 24,08  | 24,09  | 24,08  |
| 85,00    | 47,98  | 47,99  | 47,98  | 47,96  | 47,98  | 47,99  | 47,98  | 48,00  | 47,98  |

|          |        |        |        |        |        |        |
|----------|--------|--------|--------|--------|--------|--------|
| G/C [cd] | 270,00 | 285,00 | 300,00 | 315,00 | 330,00 | 345,00 |
| 45,00    | 106,48 | 116,81 | 156,79 | 175,95 | 131,62 | 96,11  |
| 50,00    | 42,30  | 43,92  | 55,32  | 63,43  | 48,81  | 39,04  |
| 55,00    | 21,88  | 23,70  | 31,00  | 30,99  | 25,52  | 21,87  |
| 60,00    | 8,37   | 16,73  | 16,73  | 16,73  | 12,55  | 8,36   |
| 65,00    | 9,90   | 9,90   | 9,90   | 9,90   | 9,90   | 9,90   |
| 70,00    | 12,23  | 12,23  | 12,23  | 12,23  | 12,23  | 12,23  |
| 75,00    | 16,16  | 16,16  | 16,16  | 16,16  | 16,16  | 16,16  |
| 80,00    | 24,09  | 24,08  | 24,09  | 24,08  | 24,09  | 24,08  |
| 85,00    | 47,99  | 47,98  | 48,00  | 47,98  | 47,99  | 47,98  |