



## PHOTOMETRIC RESULTS

|                      |                                                 |                  |         |
|----------------------|-------------------------------------------------|------------------|---------|
| <b>Name:</b>         | <b>CTL-10-DI-530-TFL 3000K</b>                  |                  |         |
| <b>Number:</b>       | LED DOWN LIGHT                                  | <b>Diameter:</b> | 30 mm   |
| <b>Report:</b>       | AL.Die-casting,<br>PC.MEDIUM LENS.Ø35           | <b>Length:</b>   | 0 mm    |
| <b>Test no.:</b>     | LT-2023-11-29-T04                               | <b>Width:</b>    | 0 mm    |
| <b>Lamp type:</b>    | LED10W, 700mA, 3000K, CRI90                     | <b>Height:</b>   | 90 mm   |
| <b>No. of lamps:</b> | 1                                               | <b>Power:</b>    | 10.41 W |
| <b>Lamp flux:</b>    | 820.00 lm                                       | <b>Operator:</b> | ASY     |
| <b>Date:</b>         | 2023-11-29 AM 11:25:54                          | <b>LOR:</b>      | 65.2 %  |
| <b>Comment:</b>      | EAGL CRISE LS-6-500 SI E 6W Max, 8-13VDC, 700mA |                  |         |

## Intensity [cd/klm] CTL-10-DI-530-TFL 3000K / Distribution

| G/C<br>[cd/klm] | 0.0    | 90.0   | 180.0  | 270.0  |
|-----------------|--------|--------|--------|--------|
| 0.0             | 1084.1 | 1084.1 | 1084.1 | 1084.1 |
| 1.0             | 1082.6 | 1082.6 | 1082.6 | 1082.6 |
| 2.0             | 1077.8 | 1077.8 | 1077.8 | 1077.8 |
| 3.0             | 1069.6 | 1069.6 | 1069.6 | 1069.6 |
| 4.0             | 1058.7 | 1058.7 | 1058.7 | 1058.7 |
| 5.0             | 1044.6 | 1044.6 | 1044.6 | 1044.6 |
| 6.0             | 1027.9 | 1027.9 | 1027.9 | 1027.9 |
| 7.0             | 1007.8 | 1007.8 | 1007.8 | 1007.8 |
| 8.0             | 985.6  | 985.6  | 985.6  | 985.6  |
| 9.0             | 960.8  | 960.8  | 960.8  | 960.8  |
| 10.0            | 934.0  | 934.0  | 934.0  | 934.0  |
| 11.0            | 904.6  | 904.6  | 904.6  | 904.6  |
| 12.0            | 874.0  | 874.0  | 874.0  | 874.0  |
| 13.0            | 842.4  | 842.4  | 842.4  | 842.4  |
| 14.0            | 808.4  | 808.4  | 808.4  | 808.4  |
| 15.0            | 773.0  | 773.0  | 773.0  | 773.0  |
| 16.0            | 737.1  | 737.1  | 737.1  | 737.1  |
| 17.0            | 701.0  | 701.0  | 701.0  | 701.0  |
| 18.0            | 664.4  | 664.4  | 664.4  | 664.4  |
| 19.0            | 626.8  | 626.8  | 626.8  | 626.8  |
| 20.0            | 589.8  | 589.8  | 589.8  | 589.8  |
| 21.0            | 552.8  | 552.8  | 552.8  | 552.8  |
| 22.0            | 517.3  | 517.3  | 517.3  | 517.3  |
| 23.0            | 481.9  | 481.9  | 481.9  | 481.9  |
| 24.0            | 448.5  | 448.5  | 448.5  | 448.5  |
| 25.0            | 415.4  | 415.4  | 415.4  | 415.4  |
| 26.0            | 383.9  | 383.9  | 383.9  | 383.9  |
| 27.0            | 352.5  | 352.5  | 352.5  | 352.5  |
| 28.0            | 322.2  | 322.2  | 322.2  | 322.2  |
| 29.0            | 293.6  | 293.6  | 293.6  | 293.6  |
| 30.0            | 266.1  | 266.1  | 266.1  | 266.1  |
| 31.0            | 238.5  | 238.5  | 238.5  | 238.5  |
| 32.0            | 211.4  | 211.4  | 211.4  | 211.4  |
| 33.0            | 185.4  | 185.4  | 185.4  | 185.4  |
| 34.0            | 160.7  | 160.7  | 160.7  | 160.7  |
| 35.0            | 138.7  | 138.7  | 138.7  | 138.7  |
| 36.0            | 119.8  | 119.8  | 119.8  | 119.8  |
| 37.0            | 104.5  | 104.5  | 104.5  | 104.5  |
| 38.0            | 92.0   | 92.0   | 92.0   | 92.0   |
| 39.0            | 81.3   | 81.3   | 81.3   | 81.3   |
| 40.0            | 72.4   | 72.4   | 72.4   | 72.4   |
| 41.0            | 64.9   | 64.9   | 64.9   | 64.9   |

## PHOTOMETRIC RESULTS

|                      |                                                 |                  |         |
|----------------------|-------------------------------------------------|------------------|---------|
| <b>Name:</b>         | <b>CTL-10-DI-530-TFL 3000K</b>                  |                  |         |
| <b>Number:</b>       | LED DOWN LIGHT                                  | <b>Diameter:</b> | 30 mm   |
| <b>Report:</b>       | AL.Die-casting,<br>PC.MEDIUM LENS.Ø35           | <b>Length:</b>   | 0 mm    |
| <b>Test no.:</b>     | LT-2023-11-29-T04                               | <b>Width:</b>    | 0 mm    |
| <b>Lamp type:</b>    | LED10W, 700mA, 3000K, CRI90                     | <b>Height:</b>   | 90 mm   |
| <b>No. of lamps:</b> | 1                                               | <b>Power:</b>    | 10.41 W |
| <b>Lamp flux:</b>    | 820.00 lm                                       | <b>Operator:</b> | ASY     |
| <b>Date:</b>         | 2023-11-29 AM 11:25:54                          | <b>LOR:</b>      | 65.2 %  |
| <b>Comment:</b>      | EAGL CRISE LS-6-500 SI E 6W Max, 8-13VDC, 700mA |                  |         |

## Intensity [cd/klm] CTL-10-DI-530-TFL 3000K / Distribution

| G/C<br>[cd/klm] | 0.0  | 90.0 | 180.0 | 270.0 |
|-----------------|------|------|-------|-------|
| 42.0            | 58.4 | 58.4 | 58.4  | 58.4  |
| 43.0            | 52.5 | 52.5 | 52.5  | 52.5  |
| 44.0            | 47.1 | 47.1 | 47.1  | 47.1  |
| 45.0            | 41.7 | 41.7 | 41.7  | 41.7  |
| 46.0            | 36.3 | 36.3 | 36.3  | 36.3  |
| 47.0            | 31.3 | 31.3 | 31.3  | 31.3  |
| 48.0            | 26.8 | 26.8 | 26.8  | 26.8  |
| 49.0            | 23.4 | 23.4 | 23.4  | 23.4  |
| 50.0            | 21.1 | 21.1 | 21.1  | 21.1  |
| 51.0            | 19.4 | 19.4 | 19.4  | 19.4  |
| 52.0            | 18.0 | 18.0 | 18.0  | 18.0  |
| 53.0            | 16.9 | 16.9 | 16.9  | 16.9  |
| 54.0            | 16.0 | 16.0 | 16.0  | 16.0  |
| 55.0            | 15.3 | 15.3 | 15.3  | 15.3  |
| 56.0            | 14.5 | 14.5 | 14.5  | 14.5  |
| 57.0            | 13.8 | 13.8 | 13.8  | 13.8  |
| 58.0            | 13.2 | 13.2 | 13.2  | 13.2  |
| 59.0            | 12.5 | 12.5 | 12.5  | 12.5  |
| 60.0            | 12.1 | 12.1 | 12.1  | 12.1  |
| 61.0            | 11.3 | 11.3 | 11.3  | 11.3  |
| 62.0            | 10.7 | 10.7 | 10.7  | 10.7  |
| 63.0            | 10.2 | 10.2 | 10.2  | 10.2  |
| 64.0            | 9.6  | 9.6  | 9.6   | 9.6   |
| 65.0            | 9.0  | 9.0  | 9.0   | 9.0   |
| 66.0            | 8.6  | 8.6  | 8.6   | 8.6   |
| 67.0            | 8.0  | 8.0  | 8.0   | 8.0   |
| 68.0            | 7.5  | 7.5  | 7.5   | 7.5   |
| 69.0            | 7.1  | 7.1  | 7.1   | 7.1   |
| 70.0            | 6.6  | 6.6  | 6.6   | 6.6   |
| 71.0            | 6.1  | 6.1  | 6.1   | 6.1   |
| 72.0            | 5.8  | 5.8  | 5.8   | 5.8   |
| 73.0            | 5.5  | 5.5  | 5.5   | 5.5   |
| 74.0            | 5.0  | 5.0  | 5.0   | 5.0   |
| 75.0            | 4.7  | 4.7  | 4.7   | 4.7   |
| 76.0            | 4.3  | 4.3  | 4.3   | 4.3   |
| 77.0            | 3.8  | 3.8  | 3.8   | 3.8   |
| 78.0            | 3.5  | 3.5  | 3.5   | 3.5   |
| 79.0            | 3.2  | 3.2  | 3.2   | 3.2   |
| 80.0            | 2.9  | 2.9  | 2.9   | 2.9   |
| 81.0            | 2.6  | 2.6  | 2.6   | 2.6   |
| 82.0            | 2.3  | 2.3  | 2.3   | 2.3   |
| 83.0            | 2.0  | 2.0  | 2.0   | 2.0   |

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|                      |                                                 |                  |         |
|----------------------|-------------------------------------------------|------------------|---------|
| <b>Name:</b>         | <b>CTL-10-DI-530-TFL 3000K</b>                  |                  |         |
| <b>Number:</b>       | LED DOWN LIGHT                                  | <b>Diameter:</b> | 30 mm   |
| <b>Report:</b>       | AL.Die-casting,<br>PC.MEDIUM LENS.Ø35           | <b>Length:</b>   | 0 mm    |
| <b>Test no.:</b>     | LT-2023-11-29-T04                               | <b>Width:</b>    | 0 mm    |
| <b>Lamp type:</b>    | LED10W, 700mA, 3000K, CRI90                     | <b>Height:</b>   | 90 mm   |
| <b>No. of lamps:</b> | 1                                               | <b>Power:</b>    | 10.41 W |
| <b>Lamp flux:</b>    | 820.00 lm                                       | <b>Operator:</b> | ASY     |
| <b>Date:</b>         | 2023-11-29 AM 11:25:54                          | <b>LOR:</b>      | 65.2 %  |
| <b>Comment:</b>      | EAGL CRISE LS-6-500 SI E 6W Max, 8-13VDC, 700mA |                  |         |

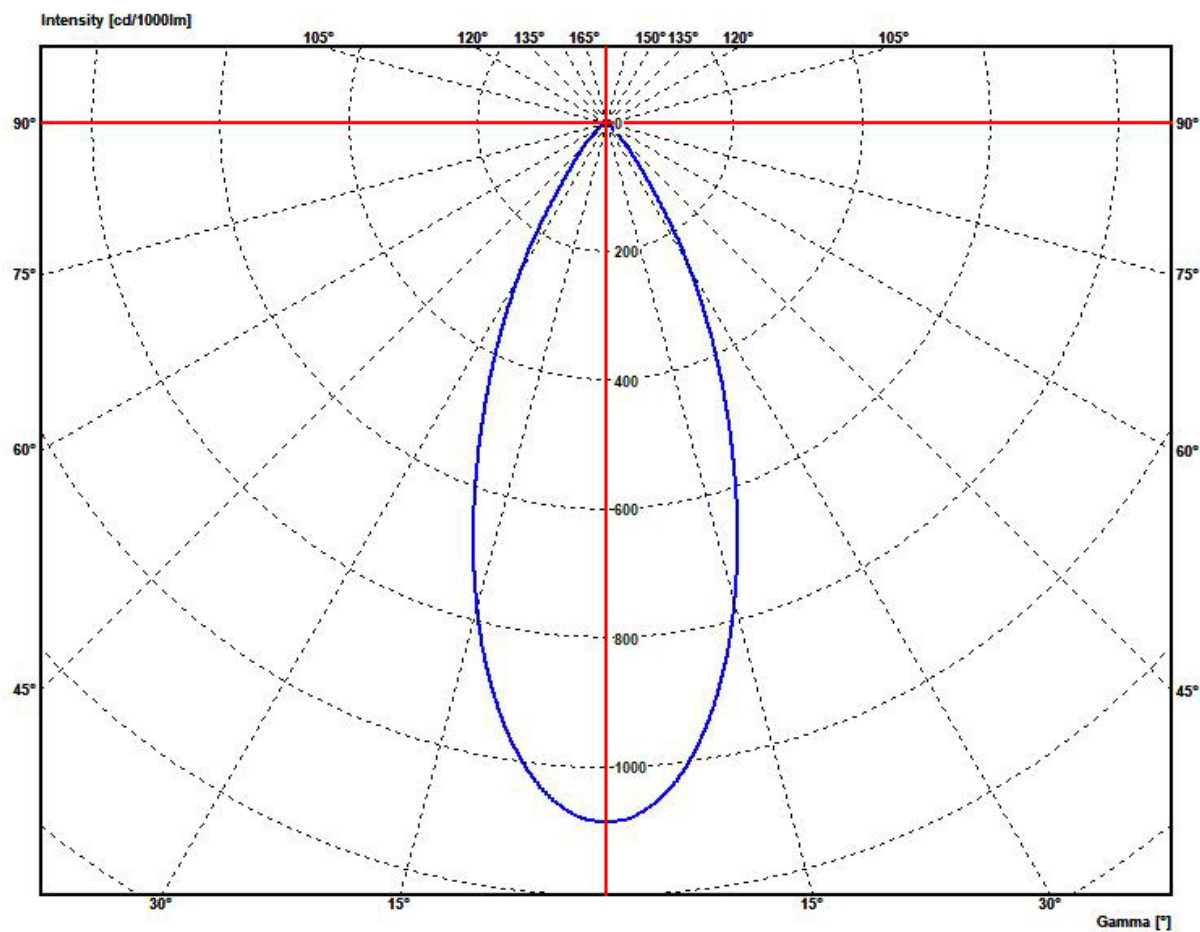
## Intensity [cd/klm] CTL-10-DI-530-TFL 3000K / Distribution

| G/C<br>[cd/klm] | 0.0 | 90.0 | 180.0 | 270.0 |
|-----------------|-----|------|-------|-------|
| 84.0            | 1.6 | 1.6  | 1.6   | 1.6   |
| 85.0            | 1.3 | 1.3  | 1.3   | 1.3   |
| 86.0            | 1.2 | 1.2  | 1.2   | 1.2   |
| 87.0            | 1.0 | 1.0  | 1.0   | 1.0   |
| 88.0            | 0.8 | 0.8  | 0.8   | 0.8   |
| 89.0            | 0.5 | 0.5  | 0.5   | 0.5   |
| 90.0            | 0.4 | 0.4  | 0.4   | 0.4   |

## PHOTOMETRIC RESULTS

|                      |                                                    |                  |         |
|----------------------|----------------------------------------------------|------------------|---------|
| <b>Name:</b>         | <b>CTL-10-DI-530-TFL 3000K</b>                     |                  |         |
| <b>Type:</b>         | LED DOWN LIGHT                                     | <b>Diameter:</b> | 30 mm   |
| <b>Luminaire:</b>    | AL.Die-casting, PC.MEDIUM LENS.Ø35                 | <b>Length:</b>   | 0 mm    |
| <b>Test no.:</b>     | LT-2023-11-29-T04                                  | <b>Width:</b>    | 0 mm    |
| <b>Lamp type:</b>    | LED10W, 700mA, 3000K, CRI90                        | <b>Height:</b>   | 90 mm   |
| <b>No. of lamps:</b> | 1                                                  | <b>Power:</b>    | 10.41 W |
| <b>Lamp flux:</b>    | 820.00 lm                                          | <b>Operator:</b> | ASY     |
| <b>Date:</b>         | 2023-11-29 AM 11:25:54                             | <b>LOR:</b>      | 65.2 %  |
| <b>Comment:</b>      | EAGL CRISE LS-8-700 SI E1 9.1W Max, 8-13VDC, 700mA |                  |         |

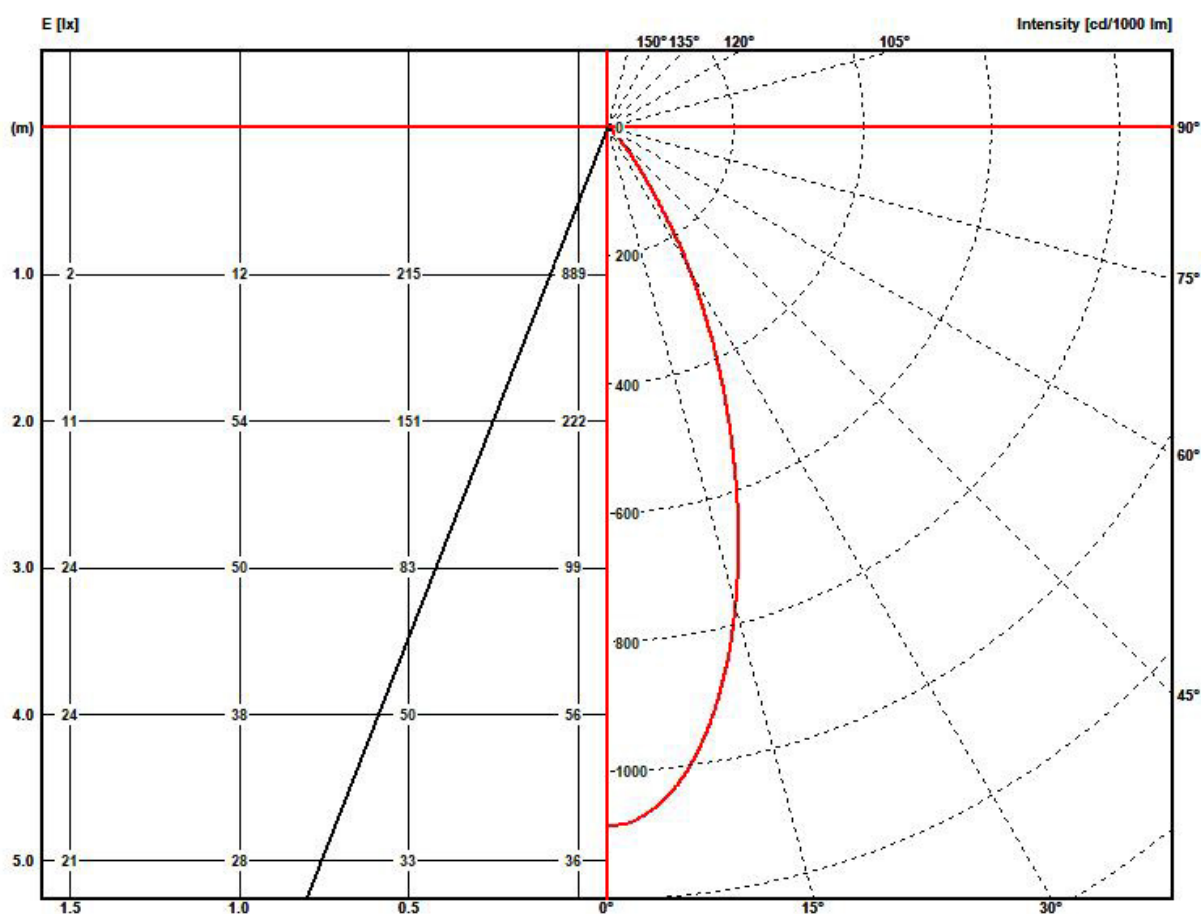
### Polar diagram CTL-10-DI-530-TFL 3000K / C-Plane measurement



## PHOTOMETRIC RESULTS

|                      |                                                    |                  |         |
|----------------------|----------------------------------------------------|------------------|---------|
| <b>Name:</b>         | <b>CTL-10-DI-530-TFL 3000K</b>                     |                  |         |
| <b>Type:</b>         | LED DOWN LIGHT                                     | <b>Diameter:</b> | 30 mm   |
| <b>Luminaire:</b>    | AL.Die-casting, PC.MEDIUM LENS.Ø35                 | <b>Length:</b>   | 0 mm    |
| <b>Test no.:</b>     | LT-2023-11-29-T04                                  | <b>Width:</b>    | 0 mm    |
| <b>Lamp type:</b>    | LED10W, 700mA, 3000K, CRI90                        | <b>Height:</b>   | 90 mm   |
| <b>No. of lamps:</b> | 1                                                  | <b>Power:</b>    | 10.41 W |
| <b>Lamp flux:</b>    | 820.00 lm                                          | <b>Operator:</b> | ASY     |
| <b>Date:</b>         | 2023-11-29 AM 11:25:54                             | <b>LOR:</b>      | 65.2 %  |
| <b>Comment:</b>      | EAGL CRISE LS-8-700 SI E1 9.1W Max, 8-13VDC, 700mA |                  |         |

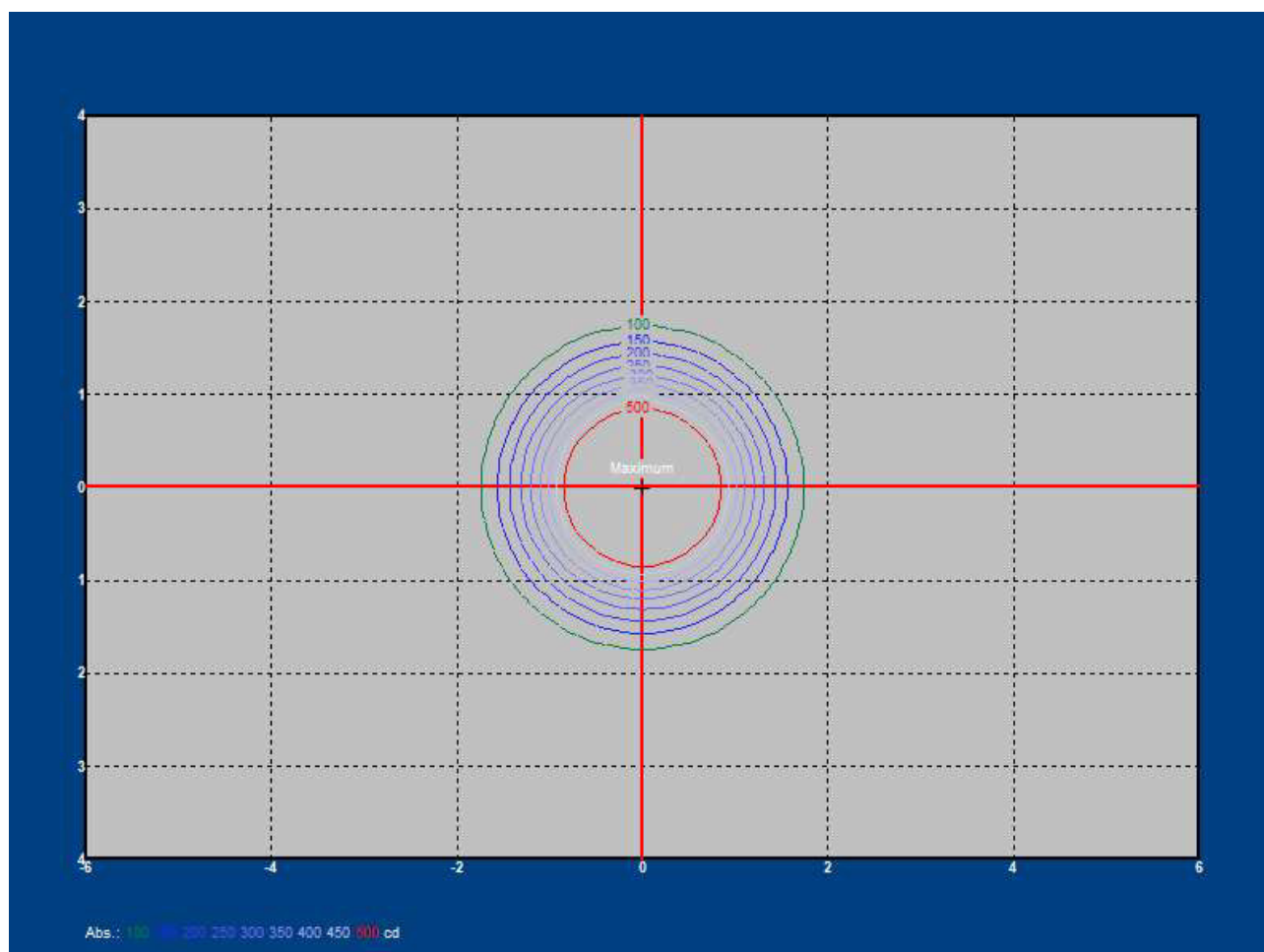
### Illuminance and Intensity diagram CTL-10-DI-530-TFL 3000K / C-Plane measurement



## PHOTOMETRIC RESULTS

|                      |                                                 |                  |         |
|----------------------|-------------------------------------------------|------------------|---------|
| <b>Name:</b>         | <b>CTL-10-DI-530-TFL 3000K</b>                  |                  |         |
| <b>Number:</b>       | LED DOWN LIGHT                                  | <b>Diameter:</b> | 30 mm   |
| <b>Report:</b>       | AL.Die-casting,<br>PC.MEDIUM LENS.Ø35           | <b>Length:</b>   | 0 mm    |
| <b>Test no.:</b>     | LT-2023-11-29-T04                               | <b>Width:</b>    | 0 mm    |
| <b>Lamp type:</b>    | LED10W, 700mA, 3000K, CRI90                     | <b>Height:</b>   | 90 mm   |
| <b>No. of lamps:</b> | 1                                               | <b>Power:</b>    | 10.41 W |
| <b>Lamp flux:</b>    | 820.00 lm                                       | <b>Operator:</b> | ASY     |
| <b>Date:</b>         | 2023-11-29 AM 11:25:54                          | <b>LOR:</b>      | 65.2 %  |
| <b>Comment:</b>      | EAGL CRISE LS-6-500 SI E 6W Max, 8-13VDC, 700mA |                  |         |

### Isoline diagram CTL-10-DI-530-TFL 3000K / C-Plane measurement



Luminaire mounting height above ground: 2.4 m

Luminaire rotation angle: 0 °

## PHOTOMETRIC RESULTS

|                      |                                                 |                  |         |
|----------------------|-------------------------------------------------|------------------|---------|
| <b>Name:</b>         | <b>CTL-10-DI-530-TFL 3000K</b>                  |                  |         |
| <b>Number:</b>       | LED DOWN LIGHT                                  | <b>Diameter:</b> | 30 mm   |
| <b>Report:</b>       | AL.Die-casting,<br>PC.MEDIUM LENS.Ø35           | <b>Length:</b>   | 0 mm    |
| <b>Test no.:</b>     | LT-2023-11-29-T04                               | <b>Width:</b>    | 0 mm    |
| <b>Lamp type:</b>    | LED10W, 700mA, 3000K, CRI90                     | <b>Height:</b>   | 90 mm   |
| <b>No. of lamps:</b> | 1                                               | <b>Power:</b>    | 10.41 W |
| <b>Lamp flux:</b>    | 820.00 lm                                       | <b>Operator:</b> | ASY     |
| <b>Date:</b>         | 2023-11-29 AM 11:25:54                          | <b>LOR:</b>      | 65.2 %  |
| <b>Comment:</b>      | EAGL CRISE LS-6-500 SI E 6W Max, 8-13VDC, 700mA |                  |         |

## LiTG Utilization factors

|                      |                                                         |           |           |           |           |           |           |           |           |           |           |          |
|----------------------|---------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
| <b>Ceiling</b>       | <b>70</b>                                               | <b>80</b> | <b>80</b> | <b>50</b> | <b>50</b> | <b>80</b> | <b>80</b> | <b>80</b> | <b>50</b> | <b>50</b> | <b>30</b> | <b>0</b> |
| <b>Wall</b>          | <b>50</b>                                               | <b>50</b> | <b>30</b> | <b>50</b> | <b>30</b> | <b>80</b> | <b>50</b> | <b>30</b> | <b>50</b> | <b>30</b> | <b>30</b> | <b>0</b> |
| <b>Working plane</b> | <b>20</b>                                               | <b>30</b> | <b>30</b> | <b>30</b> | <b>30</b> | <b>10</b> | <b>10</b> | <b>10</b> | <b>10</b> | <b>10</b> | <b>10</b> | <b>0</b> |
| <b>Roomindices</b>   | Utilization coefficients for ceiling mounted luminaires |           |           |           |           |           |           |           |           |           |           |          |
| <b>0.6</b>           | 48                                                      | 49        | 46        | 48        | 45        | 54        | 47        | 45        | 47        | 45        | 45        | 42       |
| <b>0.8</b>           | 53                                                      | 54        | 51        | 53        | 50        | 58        | 52        | 49        | 51        | 49        | 49        | 47       |
| <b>1</b>             | 56                                                      | 58        | 54        | 57        | 54        | 61        | 55        | 53        | 54        | 52        | 52        | 50       |
| <b>1.25</b>          | 61                                                      | 63        | 60        | 61        | 58        | 64        | 59        | 57        | 58        | 57        | 56        | 55       |
| <b>1.5</b>           | 63                                                      | 66        | 62        | 63        | 61        | 65        | 61        | 59        | 60        | 58        | 58        | 56       |
| <b>2</b>             | 65                                                      | 69        | 66        | 66        | 64        | 67        | 63        | 61        | 62        | 61        | 60        | 58       |
| <b>2.5</b>           | 67                                                      | 71        | 68        | 68        | 65        | 67        | 64        | 63        | 63        | 62        | 61        | 60       |
| <b>3</b>             | 68                                                      | 74        | 71        | 69        | 67        | 68        | 66        | 64        | 64        | 63        | 63        | 61       |
| <b>4</b>             | 70                                                      | 75        | 73        | 70        | 68        | 69        | 66        | 65        | 65        | 64        | 63        | 61       |
| <b>5</b>             | 70                                                      | 77        | 75        | 71        | 70        | 69        | 67        | 66        | 65        | 65        | 64        | 62       |

|                      |                                                         |           |           |           |           |           |           |           |           |           |           |          |
|----------------------|---------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
| <b>Ceiling</b>       | <b>70</b>                                               | <b>80</b> | <b>80</b> | <b>50</b> | <b>50</b> | <b>80</b> | <b>80</b> | <b>80</b> | <b>50</b> | <b>50</b> | <b>30</b> | <b>0</b> |
| <b>Wall</b>          | <b>50</b>                                               | <b>50</b> | <b>30</b> | <b>50</b> | <b>30</b> | <b>80</b> | <b>50</b> | <b>30</b> | <b>50</b> | <b>30</b> | <b>30</b> | <b>0</b> |
| <b>Working plane</b> | <b>20</b>                                               | <b>30</b> | <b>30</b> | <b>30</b> | <b>30</b> | <b>10</b> | <b>10</b> | <b>10</b> | <b>10</b> | <b>10</b> | <b>10</b> | <b>0</b> |
| <b>Roomindices</b>   | Utilization coefficients for pendant mounted luminaires |           |           |           |           |           |           |           |           |           |           |          |
| <b>0.6</b>           | 49                                                      | 51        | 47        | 49        | 46        | 56        | 48        | 46        | 48        | 45        | 45        | 42       |
| <b>0.8</b>           | 54                                                      | 57        | 53        | 55        | 51        | 60        | 53        | 50        | 52        | 50        | 49        | 47       |
| <b>1</b>             | 58                                                      | 61        | 57        | 58        | 55        | 62        | 56        | 54        | 55        | 53        | 52        | 50       |
| <b>1.25</b>          | 62                                                      | 66        | 62        | 63        | 60        | 65        | 60        | 58        | 59        | 57        | 57        | 55       |
| <b>1.5</b>           | 64                                                      | 68        | 65        | 65        | 62        | 66        | 62        | 60        | 61        | 59        | 58        | 56       |
| <b>2</b>             | 67                                                      | 72        | 69        | 67        | 65        | 67        | 64        | 63        | 63        | 61        | 61        | 58       |
| <b>2.5</b>           | 68                                                      | 74        | 71        | 69        | 67        | 68        | 66        | 64        | 64        | 63        | 62        | 60       |
| <b>3</b>             | 70                                                      | 76        | 74        | 70        | 69        | 69        | 67        | 66        | 65        | 64        | 63        | 61       |
| <b>4</b>             | 71                                                      | 78        | 76        | 71        | 70        | 69        | 67        | 66        | 65        | 65        | 63        | 61       |
| <b>5</b>             | 72                                                      | 79        | 77        | 72        | 71        | 69        | 68        | 67        | 66        | 65        | 64        | 62       |



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|                      |                                                    |                  |         |
|----------------------|----------------------------------------------------|------------------|---------|
| <b>Name:</b>         | <b>CTL-10-DI-530-TFL 3000K</b>                     |                  |         |
| <b>Type:</b>         | LED DOWN LIGHT                                     | <b>Diameter:</b> | 30 mm   |
| <b>Luminaire:</b>    | AL.Die-casting, PC.MEDIUM LENS.Ø35                 | <b>Length:</b>   | 0 mm    |
| <b>Test no.:</b>     | LT-2023-11-29-T04                                  | <b>Width:</b>    | 0 mm    |
| <b>Lamp type:</b>    | LED10W, 700mA, 3000K, CRI90                        | <b>Height:</b>   | 90 mm   |
| <b>No. of lamps:</b> | 1                                                  | <b>Power:</b>    | 10.41 W |
| <b>Lamp flux:</b>    | 820.00 lm                                          | <b>Operator:</b> | ASY     |
| <b>Date:</b>         | 2023-11-29 AM 11:25:54                             | <b>LOR:</b>      | 65.2 %  |
| <b>Comment:</b>      | EAGL CRISE LS-8-700 SI E1 9.1W Max, 8-13VDC, 700mA |                  |         |

## 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>  | 16.8             | 17.7       | 17.1       | 18.0       | 18.3       | 16.8           | 17.7       | 17.1       | 18.0       | 18.3       |
| <b>2H</b>                       | <b>3H</b>  | 16.8             | 17.6       | 17.1       | 17.9       | 18.3       | 16.8           | 17.6       | 17.1       | 17.9       | 18.3       |
| <b>2H</b>                       | <b>4H</b>  | 16.7             | 17.5       | 17.1       | 17.9       | 18.2       | 16.7           | 17.5       | 17.1       | 17.9       | 18.2       |
| <b>2H</b>                       | <b>6H</b>  | 16.7             | 17.4       | 17.1       | 17.8       | 18.2       | 16.7           | 17.4       | 17.1       | 17.8       | 18.2       |
| <b>2H</b>                       | <b>8H</b>  | 16.6             | 17.3       | 17.0       | 17.7       | 18.1       | 16.6           | 17.3       | 17.0       | 17.7       | 18.1       |
| <b>2H</b>                       | <b>12H</b> | 16.5             | 17.2       | 17.0       | 17.6       | 18.0       | 16.5           | 17.2       | 17.0       | 17.6       | 18.0       |
| <b>4H</b>                       | <b>2H</b>  | 16.6             | 17.3       | 17.0       | 17.7       | 18.1       | 16.6           | 17.3       | 17.0       | 17.7       | 18.1       |
| <b>4H</b>                       | <b>3H</b>  | 16.6             | 17.2       | 17.0       | 17.6       | 18.0       | 16.6           | 17.2       | 17.0       | 17.6       | 18.0       |
| <b>4H</b>                       | <b>4H</b>  | 16.6             | 17.1       | 17.0       | 17.6       | 18.0       | 16.6           | 17.1       | 17.0       | 17.6       | 18.0       |
| <b>4H</b>                       | <b>6H</b>  | 16.5             | 17.0       | 17.0       | 17.5       | 17.9       | 16.5           | 17.0       | 17.0       | 17.5       | 17.9       |
| <b>4H</b>                       | <b>8H</b>  | 16.5             | 16.9       | 17.0       | 17.4       | 17.9       | 16.5           | 16.9       | 17.0       | 17.4       | 17.9       |
| <b>4H</b>                       | <b>12H</b> | 16.4             | 16.9       | 16.9       | 17.3       | 17.8       | 16.4           | 16.9       | 16.9       | 17.3       | 17.8       |
| <b>8H</b>                       | <b>4H</b>  | 16.4             | 16.9       | 16.9       | 17.3       | 17.8       | 16.4           | 16.9       | 16.9       | 17.3       | 17.8       |
| <b>8H</b>                       | <b>6H</b>  | 16.3             | 16.7       | 16.9       | 17.2       | 17.7       | 16.3           | 16.7       | 16.9       | 17.2       | 17.7       |
| <b>8H</b>                       | <b>8H</b>  | 16.4             | 16.7       | 16.9       | 17.2       | 17.7       | 16.4           | 16.7       | 16.9       | 17.2       | 17.7       |
| <b>8H</b>                       | <b>12H</b> | 16.3             | 16.6       | 16.9       | 17.1       | 17.6       | 16.3           | 16.6       | 16.9       | 17.1       | 17.6       |
| <b>12H</b>                      | <b>4H</b>  | 16.4             | 16.8       | 16.9       | 17.3       | 17.8       | 16.4           | 16.8       | 16.9       | 17.3       | 17.8       |
| <b>12H</b>                      | <b>6H</b>  | 16.3             | 16.7       | 16.9       | 17.2       | 17.7       | 16.3           | 16.7       | 16.9       | 17.2       | 17.7       |
| <b>12H</b>                      | <b>8H</b>  | 16.3             | 16.6       | 16.8       | 17.1       | 17.6       | 16.3           | 16.6       | 16.8       | 17.1       | 17.6       |

## PHOTOMETRIC RESULTS

|                      |                                                    |                  |         |
|----------------------|----------------------------------------------------|------------------|---------|
| <b>Name:</b>         | <b>CTL-10-DI-530-TFL 3000K</b>                     |                  |         |
| <b>Type:</b>         | LED DOWN LIGHT                                     | <b>Diameter:</b> | 30 mm   |
| <b>Luminaire:</b>    | AL.Die-casting, PC.MEDIUM LENS.Ø35                 | <b>Length:</b>   | 0 mm    |
| <b>Test no.:</b>     | LT-2023-11-29-T04                                  | <b>Width:</b>    | 0 mm    |
| <b>Lamp type:</b>    | LED10W, 700mA, 3000K, CRI90                        | <b>Height:</b>   | 90 mm   |
| <b>No. of lamps:</b> | 1                                                  | <b>Power:</b>    | 10.41 W |
| <b>Lamp flux:</b>    | 820.00 lm                                          | <b>Operator:</b> | ASY     |
| <b>Date:</b>         | 2023-11-29 AM 11:25:54                             | <b>LOR:</b>      | 65.2 %  |
| <b>Comment:</b>      | EAGL CRISE LS-8-700 SI E1 9.1W Max, 8-13VDC, 700mA |                  |         |

### Zonal flux CTL-10-DI-530-TFL 3000K / C-Plane measurement

| Gamma<br>[°] | Imin<br>[cd/klm] | Imax<br>[cd/klm] | Imean<br>[cd/klm] | Zonal<br>flux [lm] | Sum.<br>zonal<br>flux [lm] | Rel.<br>zonal<br>flux [%] | Sum. rel.<br>zonal<br>flux [%] |
|--------------|------------------|------------------|-------------------|--------------------|----------------------------|---------------------------|--------------------------------|
| 0.0          | 1084.1           | 1084.1           | 1084.1            | 0.21               | 0.21                       | 0.03                      | 0.03                           |
| 1.0          | 1082.6           | 1082.6           | 1082.6            | 1.70               | 1.91                       | 0.21                      | 0.23                           |
| 2.0          | 1077.8           | 1077.8           | 1077.8            | 3.38               | 5.29                       | 0.41                      | 0.65                           |
| 3.0          | 1069.6           | 1069.6           | 1069.6            | 5.03               | 10.33                      | 0.61                      | 1.26                           |
| 4.0          | 1058.7           | 1058.7           | 1058.7            | 6.64               | 16.97                      | 0.81                      | 2.07                           |
| 5.0          | 1044.6           | 1044.6           | 1044.6            | 8.19               | 25.16                      | 1.00                      | 3.07                           |
| 6.0          | 1027.9           | 1027.9           | 1027.9            | 9.66               | 34.82                      | 1.18                      | 4.25                           |
| 7.0          | 1007.8           | 1007.8           | 1007.8            | 11.04              | 45.86                      | 1.35                      | 5.59                           |
| 8.0          | 985.6            | 985.6            | 985.6             | 12.33              | 58.20                      | 1.50                      | 7.10                           |
| 9.0          | 960.8            | 960.8            | 960.8             | 13.52              | 71.71                      | 1.65                      | 8.75                           |
| 10.0         | 934.0            | 934.0            | 934.0             | 14.58              | 86.30                      | 1.78                      | 10.52                          |
| 11.0         | 904.6            | 904.6            | 904.6             | 15.52              | 101.82                     | 1.89                      | 12.42                          |
| 12.0         | 874.0            | 874.0            | 874.0             | 16.34              | 118.16                     | 1.99                      | 14.41                          |
| 13.0         | 842.4            | 842.4            | 842.4             | 17.04              | 135.20                     | 2.08                      | 16.49                          |
| 14.0         | 808.4            | 808.4            | 808.4             | 17.59              | 152.79                     | 2.14                      | 18.63                          |
| 15.0         | 773.0            | 773.0            | 773.0             | 17.99              | 170.78                     | 2.19                      | 20.83                          |
| 16.0         | 737.1            | 737.1            | 737.1             | 18.27              | 189.04                     | 2.23                      | 23.05                          |
| 17.0         | 701.0            | 701.0            | 701.0             | 18.43              | 207.47                     | 2.25                      | 25.30                          |
| 18.0         | 664.4            | 664.4            | 664.4             | 18.46              | 225.94                     | 2.25                      | 27.55                          |
| 19.0         | 626.8            | 626.8            | 626.8             | 18.35              | 244.29                     | 2.24                      | 29.79                          |
| 20.0         | 589.8            | 589.8            | 589.8             | 18.14              | 262.43                     | 2.21                      | 32.00                          |
| 21.0         | 552.8            | 552.8            | 552.8             | 17.81              | 280.24                     | 2.17                      | 34.18                          |
| 22.0         | 517.3            | 517.3            | 517.3             | 17.43              | 297.67                     | 2.13                      | 36.30                          |
| 23.0         | 481.9            | 481.9            | 481.9             | 16.93              | 314.60                     | 2.06                      | 38.37                          |
| 24.0         | 448.5            | 448.5            | 448.5             | 16.40              | 331.00                     | 2.00                      | 40.37                          |
| 25.0         | 415.4            | 415.4            | 415.4             | 15.79              | 346.79                     | 1.93                      | 42.29                          |
| 26.0         | 383.9            | 383.9            | 383.9             | 15.13              | 361.92                     | 1.85                      | 44.14                          |
| 27.0         | 352.5            | 352.5            | 352.5             | 14.39              | 376.31                     | 1.75                      | 45.89                          |
| 28.0         | 322.2            | 322.2            | 322.2             | 13.60              | 389.91                     | 1.66                      | 47.55                          |
| 29.0         | 293.6            | 293.6            | 293.6             | 12.80              | 402.71                     | 1.56                      | 49.11                          |

## Zonal flux CTL-10-DI-530-TFL 3000K / C-Plane measurement

| Gamma<br>[°] | Imin<br>[cd/klm] | Imax<br>[cd/klm] | Imean<br>[cd/klm] | Zonal<br>flux [lm] | Sum.<br>zonal<br>flux [lm] | Rel.<br>zonal<br>flux [%] | Sum. rel.<br>zonal<br>flux [%] |
|--------------|------------------|------------------|-------------------|--------------------|----------------------------|---------------------------|--------------------------------|
| 30.0         | 266.1            | 266.1            | 266.1             | 11.97              | 414.68                     | 1.46                      | 50.57                          |
| 31.0         | 238.5            | 238.5            | 238.5             | 11.05              | 425.72                     | 1.35                      | 51.92                          |
| 32.0         | 211.4            | 211.4            | 211.4             | 10.07              | 435.80                     | 1.23                      | 53.15                          |
| 33.0         | 185.4            | 185.4            | 185.4             | 9.08               | 444.87                     | 1.11                      | 54.25                          |
| 34.0         | 160.7            | 160.7            | 160.7             | 8.08               | 452.96                     | 0.99                      | 55.24                          |
| 35.0         | 138.7            | 138.7            | 138.7             | 7.15               | 460.11                     | 0.87                      | 56.11                          |
| 36.0         | 119.8            | 119.8            | 119.8             | 6.33               | 466.44                     | 0.77                      | 56.88                          |
| 37.0         | 104.5            | 104.5            | 104.5             | 5.66               | 472.10                     | 0.69                      | 57.57                          |
| 38.0         | 92.0             | 92.0             | 92.0              | 5.09               | 477.19                     | 0.62                      | 58.19                          |
| 39.0         | 81.3             | 81.3             | 81.3              | 4.60               | 481.80                     | 0.56                      | 58.76                          |
| 40.0         | 72.4             | 72.4             | 72.4              | 4.19               | 485.98                     | 0.51                      | 59.27                          |
| 41.0         | 64.9             | 64.9             | 64.9              | 3.83               | 489.81                     | 0.47                      | 59.73                          |
| 42.0         | 58.4             | 58.4             | 58.4              | 3.51               | 493.33                     | 0.43                      | 60.16                          |
| 43.0         | 52.5             | 52.5             | 52.5              | 3.22               | 496.54                     | 0.39                      | 60.55                          |
| 44.0         | 47.1             | 47.1             | 47.1              | 2.94               | 499.49                     | 0.36                      | 60.91                          |
| 45.0         | 41.7             | 41.7             | 41.7              | 2.65               | 502.14                     | 0.32                      | 61.24                          |
| 46.0         | 36.3             | 36.3             | 36.3              | 2.35               | 504.49                     | 0.29                      | 61.52                          |
| 47.0         | 31.3             | 31.3             | 31.3              | 2.06               | 506.54                     | 0.25                      | 61.77                          |
| 48.0         | 26.8             | 26.8             | 26.8              | 1.79               | 508.34                     | 0.22                      | 61.99                          |
| 49.0         | 23.4             | 23.4             | 23.4              | 1.59               | 509.92                     | 0.19                      | 62.19                          |
| 50.0         | 21.1             | 21.1             | 21.1              | 1.45               | 511.37                     | 0.18                      | 62.36                          |
| 51.0         | 19.4             | 19.4             | 19.4              | 1.35               | 512.73                     | 0.17                      | 62.53                          |
| 52.0         | 18.0             | 18.0             | 18.0              | 1.27               | 514.00                     | 0.16                      | 62.68                          |
| 53.0         | 16.9             | 16.9             | 16.9              | 1.21               | 515.22                     | 0.15                      | 62.83                          |
| 54.0         | 16.0             | 16.0             | 16.0              | 1.16               | 516.38                     | 0.14                      | 62.97                          |
| 55.0         | 15.3             | 15.3             | 15.3              | 1.13               | 517.51                     | 0.14                      | 63.11                          |
| 56.0         | 14.5             | 14.5             | 14.5              | 1.08               | 518.59                     | 0.13                      | 63.24                          |
| 57.0         | 13.8             | 13.8             | 13.8              | 1.04               | 519.63                     | 0.13                      | 63.37                          |
| 58.0         | 13.2             | 13.2             | 13.2              | 1.00               | 520.64                     | 0.12                      | 63.49                          |
| 59.0         | 12.5             | 12.5             | 12.5              | 0.96               | 521.60                     | 0.12                      | 63.61                          |
| 60.0         | 12.1             | 12.1             | 12.1              | 0.94               | 522.54                     | 0.11                      | 63.72                          |
| 61.0         | 11.3             | 11.3             | 11.3              | 0.89               | 523.43                     | 0.11                      | 63.83                          |
| 62.0         | 10.7             | 10.7             | 10.7              | 0.85               | 524.28                     | 0.10                      | 63.94                          |
| 63.0         | 10.2             | 10.2             | 10.2              | 0.82               | 525.10                     | 0.10                      | 64.04                          |
| 64.0         | 9.6              | 9.6              | 9.6               | 0.78               | 525.87                     | 0.09                      | 64.13                          |
| 65.0         | 9.0              | 9.0              | 9.0               | 0.73               | 526.61                     | 0.09                      | 64.22                          |
| 66.0         | 8.6              | 8.6              | 8.6               | 0.70               | 527.31                     | 0.09                      | 64.31                          |
| 67.0         | 8.0              | 8.0              | 8.0               | 0.66               | 527.98                     | 0.08                      | 64.39                          |
| 68.0         | 7.5              | 7.5              | 7.5               | 0.63               | 528.60                     | 0.08                      | 64.46                          |
| 69.0         | 7.1              | 7.1              | 7.1               | 0.59               | 529.20                     | 0.07                      | 64.54                          |
| 70.0         | 6.6              | 6.6              | 6.6               | 0.56               | 529.76                     | 0.07                      | 64.60                          |
| 71.0         | 6.1              | 6.1              | 6.1               | 0.52               | 530.27                     | 0.06                      | 64.67                          |
| 72.0         | 5.8              | 5.8              | 5.8               | 0.49               | 530.77                     | 0.06                      | 64.73                          |

## Zonal flux CTL-10-DI-530-TFL 3000K / C-Plane measurement

| Gamma<br>[°] | Imin<br>[cd/klm] | Imax<br>[cd/klm] | Imean<br>[cd/klm] | Zonal<br>flux [lm] | Sum.<br>zonal<br>flux [lm] | Rel.<br>zonal<br>flux [%] | Sum. rel.<br>zonal<br>flux [%] |
|--------------|------------------|------------------|-------------------|--------------------|----------------------------|---------------------------|--------------------------------|
| 73.0         | 5.5              | 5.5              | 5.5               | 0.47               | 531.23                     | 0.06                      | 64.78                          |
| 74.0         | 5.0              | 5.0              | 5.0               | 0.43               | 531.66                     | 0.05                      | 64.84                          |
| 75.0         | 4.7              | 4.7              | 4.7               | 0.41               | 532.07                     | 0.05                      | 64.89                          |
| 76.0         | 4.3              | 4.3              | 4.3               | 0.38               | 532.45                     | 0.05                      | 64.93                          |
| 77.0         | 3.8              | 3.8              | 3.8               | 0.33               | 532.78                     | 0.04                      | 64.97                          |
| 78.0         | 3.5              | 3.5              | 3.5               | 0.31               | 533.09                     | 0.04                      | 65.01                          |
| 79.0         | 3.2              | 3.2              | 3.2               | 0.29               | 533.37                     | 0.03                      | 65.05                          |
| 80.0         | 2.9              | 2.9              | 2.9               | 0.26               | 533.63                     | 0.03                      | 65.08                          |
| 81.0         | 2.6              | 2.6              | 2.6               | 0.23               | 533.86                     | 0.03                      | 65.10                          |
| 82.0         | 2.3              | 2.3              | 2.3               | 0.20               | 534.06                     | 0.02                      | 65.13                          |
| 83.0         | 2.0              | 2.0              | 2.0               | 0.18               | 534.24                     | 0.02                      | 65.15                          |
| 84.0         | 1.6              | 1.6              | 1.6               | 0.14               | 534.38                     | 0.02                      | 65.17                          |
| 85.0         | 1.3              | 1.3              | 1.3               | 0.12               | 534.50                     | 0.01                      | 65.18                          |
| 86.0         | 1.2              | 1.2              | 1.2               | 0.11               | 534.60                     | 0.01                      | 65.20                          |
| 87.0         | 1.0              | 1.0              | 1.0               | 0.09               | 534.70                     | 0.01                      | 65.21                          |
| 88.0         | 0.8              | 0.8              | 0.8               | 0.07               | 534.77                     | 0.01                      | 65.22                          |
| 89.0         | 0.5              | 0.5              | 0.5               | 0.05               | 534.82                     | 0.01                      | 65.22                          |
| 90.0         | 0.4              | 0.4              | 0.4               | 0.03               | 534.85                     | 0.00                      | 65.23                          |