

# LEDS C4<sup>®</sup>

## Luminaire

Code 05-E064-Z5-OU\_2700K\_1  
Name MODIS

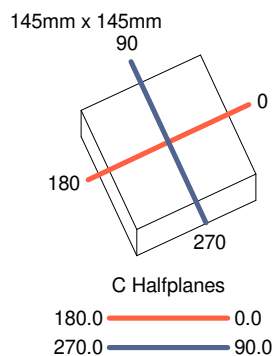
## Measurement

Code 05-E064-Z5-OU\_2700K\_1  
Name MODIS

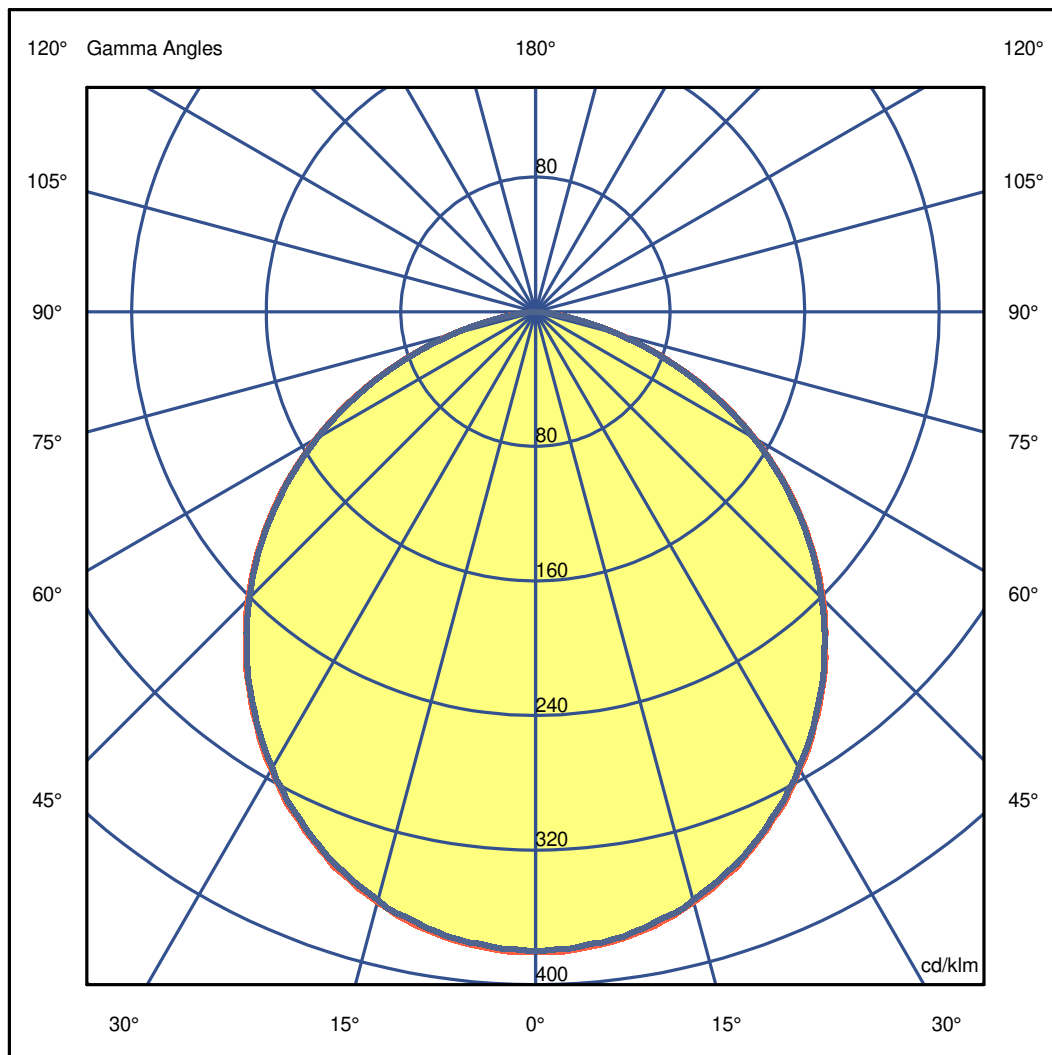
|                            |        |                         |               |                             |               |                         |                    |
|----------------------------|--------|-------------------------|---------------|-----------------------------|---------------|-------------------------|--------------------|
| Luminaire Flux             | 669 lm | Luminaire Power         | 11.6 W        | Efficacy                    | 57.684 lm/W   | Efficiency              | 100.00%            |
| Source Flux                | 669 lm | Maximum value           | 380.97 cd/klm | Position                    | C=0.00 G=2.00 | CG                      | Double Symmetrical |
| Rectangular Luminaire      |        | Length                  | 145 mm        | Width                       | 145 mm        | Height                  | 75 mm              |
| Rectangular Luminous Area  |        | Length                  | 85 mm         | Width                       | 85 mm         | Height                  | 0 mm               |
| Horizontal Luminous Area   |        | 0.007225 m <sup>2</sup> |               | Emitting area on Plane 180° |               | 0.000000 m <sup>2</sup> |                    |
| Emitting area on Plane 0°  |        | 0.000000 m <sup>2</sup> |               | Emitting area on Plane 270° |               | 0.000000 m <sup>2</sup> |                    |
| Emitting area on Plane 90° |        | 0.000000 m <sup>2</sup> |               | Glare area at 76°           |               | 0.001748 m <sup>2</sup> |                    |
| Coordinate system          |        | CG                      |               | Symmetry Type               |               | Double Symmetrical      |                    |
| Date                       |        | 15-10-2021              |               | Maximum Gamma Angle         |               | 90                      |                    |
| Measurement Distance       |        | 0.00                    |               | Measurement Flux            |               | 669 lm                  |                    |
| Operator                   |        | qualitat                |               | Rated Voltage               |               |                         |                    |
| Temperature                |        |                         |               | Rated Current               |               |                         |                    |
| Humidity                   |        |                         |               | Photocell                   |               |                         |                    |
| Notes                      |        |                         |               |                             |               |                         |                    |

## Luminaire Sources

| Line   | Code LED         | Name LED   | Flux [lm] | Pow. [W] | Q.ty |
|--------|------------------|------------|-----------|----------|------|
|        |                  |            | 669.14    | 11.60    | 1    |
| C.I.E. | 50 82 97 100 100 | D DIN 5040 | A30       |          |      |
| F UTE  | 1.00 E           | B NBN      | BZ 4      |          |      |



ULOR 0.00 %  
DLOR 100.00 %  
RN 0.00 %



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Luminous Intensity Table cd/klm Table 1/2

|        | C 0.00 | C 15.00 | C 30.00 | C 45.00 | C 60.00 | C 75.00 | C 90.00 |
|--------|--------|---------|---------|---------|---------|---------|---------|
| G 0.0  | 380.15 | 380.15  | 380.15  | 380.15  | 380.15  | 380.15  | 380.15  |
| G 1.0  | 380.59 | 380.70  | 380.05  | 379.87  | 379.77  | 379.92  | 379.60  |
| G 2.0  | 380.97 | 379.96  | 379.64  | 379.20  | 379.18  | 379.24  | 379.00  |
| G 3.0  | 380.18 | 379.80  | 379.48  | 379.70  | 379.51  | 378.73  | 379.16  |
| G 4.0  | 379.49 | 379.34  | 379.14  | 378.82  | 378.89  | 378.87  | 378.11  |
| G 5.0  | 378.78 | 378.30  | 378.22  | 377.88  | 377.60  | 377.50  | 377.06  |
| G 6.0  | 377.91 | 377.17  | 376.97  | 376.87  | 377.14  | 377.31  | 377.03  |
| G 7.0  | 376.99 | 376.58  | 376.30  | 376.44  | 376.17  | 375.85  | 375.78  |
| G 8.0  | 375.91 | 375.30  | 374.90  | 374.79  | 375.05  | 374.86  | 375.03  |
| G 9.0  | 374.40 | 374.02  | 373.47  | 373.86  | 373.35  | 373.85  | 373.14  |
| G 10.0 | 373.13 | 372.47  | 372.62  | 372.14  | 372.44  | 371.82  | 371.86  |
| G 11.0 | 371.75 | 370.87  | 370.43  | 370.49  | 370.72  | 370.34  | 369.82  |
| G 12.0 | 369.56 | 368.84  | 368.86  | 368.63  | 368.45  | 368.65  | 368.01  |
| G 13.0 | 367.92 | 366.99  | 366.91  | 367.08  | 366.54  | 366.66  | 366.90  |
| G 14.0 | 365.35 | 365.20  | 364.48  | 364.73  | 364.54  | 364.27  | 365.03  |
| G 15.0 | 363.20 | 363.26  | 362.37  | 362.60  | 362.65  | 362.06  | 361.96  |
| G 16.0 | 360.71 | 359.92  | 360.36  | 360.07  | 360.26  | 360.11  | 359.47  |
| G 17.0 | 358.74 | 357.53  | 357.88  | 357.44  | 357.41  | 357.65  | 357.15  |
| G 18.0 | 355.46 | 355.68  | 355.00  | 354.91  | 354.71  | 354.42  | 354.67  |
| G 19.0 | 353.14 | 352.67  | 352.67  | 352.20  | 352.13  | 352.28  | 351.58  |
| G 20.0 | 350.88 | 349.73  | 349.32  | 349.38  | 349.36  | 349.28  | 349.34  |
| G 21.0 | 346.98 | 346.77  | 346.08  | 346.47  | 346.23  | 346.23  | 346.16  |
| G 22.0 | 343.82 | 343.16  | 343.28  | 343.23  | 342.78  | 342.99  | 342.61  |
| G 23.0 | 340.44 | 339.95  | 340.39  | 339.90  | 339.98  | 339.47  | 339.52  |
| G 24.0 | 337.40 | 337.07  | 336.69  | 336.34  | 336.59  | 335.97  | 336.06  |
| G 25.0 | 333.24 | 333.10  | 332.67  | 332.69  | 332.56  | 332.22  | 332.11  |
| G 26.0 | 330.18 | 329.67  | 329.47  | 329.76  | 329.17  | 328.85  | 328.91  |
| G 27.0 | 326.86 | 325.71  | 325.64  | 325.71  | 325.69  | 325.06  | 325.63  |
| G 28.0 | 322.26 | 321.78  | 321.56  | 321.32  | 321.32  | 321.26  | 321.00  |
| G 29.0 | 318.33 | 318.01  | 317.72  | 317.83  | 317.28  | 317.45  | 317.75  |
| G 30.0 | 313.95 | 313.72  | 313.77  | 313.51  | 313.28  | 313.37  | 312.83  |
| G 31.0 | 310.21 | 309.86  | 309.26  | 309.28  | 309.38  | 309.47  | 308.93  |
| G 32.0 | 305.89 | 305.20  | 305.10  | 305.15  | 304.79  | 304.74  | 304.70  |
| G 33.0 | 301.48 | 301.17  | 300.84  | 300.60  | 300.55  | 300.35  | 300.26  |
| G 34.0 | 296.30 | 296.55  | 296.14  | 296.09  | 296.21  | 296.03  | 295.95  |
| G 35.0 | 292.26 | 292.20  | 291.91  | 291.79  | 291.02  | 291.63  | 290.96  |
| G 36.0 | 287.48 | 287.25  | 287.18  | 287.22  | 286.84  | 286.99  | 286.42  |
| G 37.0 | 282.50 | 282.37  | 282.35  | 282.46  | 282.23  | 281.97  | 281.87  |
| G 38.0 | 277.96 | 277.57  | 277.42  | 277.03  | 277.35  | 277.33  | 277.34  |
| G 39.0 | 273.35 | 272.75  | 272.43  | 271.91  | 272.28  | 272.28  | 272.23  |
| G 40.0 | 268.23 | 267.79  | 267.47  | 267.68  | 267.28  | 266.97  | 266.93  |
| G 41.0 | 262.24 | 262.39  | 262.31  | 262.16  | 262.04  | 261.86  | 261.72  |
| G 42.0 | 257.72 | 257.61  | 257.41  | 257.09  | 256.93  | 256.83  | 256.83  |
| G 43.0 | 252.59 | 251.95  | 251.79  | 251.74  | 252.01  | 251.62  | 251.67  |
| G 44.0 | 247.25 | 246.83  | 246.51  | 246.41  | 246.25  | 246.51  | 245.98  |
| G 45.0 | 241.54 | 241.16  | 241.05  | 240.94  | 240.80  | 240.56  | 240.45  |
| G 46.0 | 235.86 | 235.89  | 235.64  | 235.28  | 235.30  | 235.10  | 234.96  |
| G 47.0 | 230.63 | 230.06  | 230.05  | 229.65  | 229.92  | 229.61  | 229.75  |
| G 48.0 | 224.88 | 224.36  | 224.18  | 224.18  | 224.26  | 224.16  | 223.79  |
| G 49.0 | 219.01 | 218.61  | 218.37  | 218.32  | 218.21  | 218.25  | 218.23  |
| G 50.0 | 212.84 | 213.05  | 212.51  | 212.67  | 212.56  | 212.20  | 212.08  |
| G 51.0 | 207.28 | 207.06  | 206.56  | 206.93  | 206.47  | 206.63  | 206.29  |
| G 52.0 | 201.06 | 200.85  | 200.64  | 200.49  | 200.48  | 200.23  | 200.26  |
| G 53.0 | 195.14 | 194.95  | 194.85  | 194.42  | 194.58  | 194.30  | 194.23  |
| G 54.0 | 188.77 | 188.75  | 188.58  | 188.33  | 188.19  | 188.34  | 187.70  |
| G 55.0 | 182.72 | 182.66  | 182.14  | 182.07  | 181.86  | 181.84  | 182.02  |
| G 56.0 | 176.50 | 175.75  | 175.92  | 175.86  | 175.75  | 175.62  | 175.53  |
| G 57.0 | 169.95 | 169.96  | 169.39  | 169.45  | 169.46  | 169.09  | 169.00  |
| G 58.0 | 163.53 | 163.40  | 163.22  | 163.09  | 162.92  | 162.89  | 162.82  |
| G 59.0 | 157.02 | 156.87  | 156.70  | 156.75  | 156.31  | 156.37  | 156.15  |
| G 60.0 | 150.58 | 150.35  | 150.17  | 149.92  | 149.93  | 149.71  | 149.58  |
| G 61.0 | 143.77 | 143.72  | 143.38  | 143.45  | 143.22  | 143.35  | 143.22  |
| G 62.0 | 137.09 | 136.99  | 137.07  | 136.91  | 136.71  | 136.50  | 136.47  |
| G 63.0 | 130.49 | 130.32  | 130.06  | 130.05  | 129.74  | 129.67  | 129.82  |
| G 64.0 | 123.83 | 123.74  | 123.29  | 123.41  | 123.06  | 123.13  | 122.89  |
| G 65.0 | 116.87 | 116.79  | 116.81  | 116.56  | 116.56  | 116.27  | 116.09  |
| G 66.0 | 110.09 | 110.09  | 109.80  | 109.56  | 109.57  | 109.51  | 109.38  |
| G 67.0 | 103.38 | 103.35  | 103.09  | 103.01  | 102.76  | 102.73  | 102.74  |
| G 68.0 | 96.50  | 96.51   | 96.30   | 96.14   | 95.92   | 95.92   | 95.85   |
| G 69.0 | 89.94  | 89.77   | 89.60   | 89.45   | 89.21   | 89.15   | 89.05   |
| G 70.0 | 82.93  | 82.79   | 82.68   | 82.50   | 82.46   | 82.28   | 82.18   |
| G 71.0 | 76.57  | 76.41   | 76.17   | 76.00   | 75.79   | 75.67   | 75.76   |
| G 72.0 | 69.67  | 69.62   | 69.55   | 69.41   | 69.30   | 69.09   | 69.05   |

# LEDS C4<sup>2</sup>

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|                |        |                 |               |          |               |            |                    |
|----------------|--------|-----------------|---------------|----------|---------------|------------|--------------------|
| Luminaire Flux | 669 lm | Luminaire Power | 11.6 W        | Efficacy | 57.684 lm/W   | Efficiency | 100.00%            |
| Source Flux    | 669 lm | Maximum value   | 380.97 cd/klm | Position | C=0.00 G=2.00 | CG         | Double Symmetrical |

**Luminous Intensity Table cd/klm Table 2/2**

|        | C 0.00 | C 15.00 | C 30.00 | C 45.00 | C 60.00 | C 75.00 | C 90.00 |
|--------|--------|---------|---------|---------|---------|---------|---------|
| G 73.0 | 63.35  | 63.31   | 63.03   | 62.93   | 62.72   | 62.61   | 62.51   |
| G 74.0 | 57.03  | 56.97   | 56.77   | 56.60   | 56.30   | 56.23   | 56.18   |
| G 75.0 | 50.77  | 50.80   | 50.60   | 50.47   | 50.19   | 50.08   | 50.05   |
| G 76.0 | 44.80  | 44.84   | 44.72   | 44.45   | 44.25   | 44.14   | 44.04   |
| G 77.0 | 39.01  | 39.01   | 38.77   | 38.64   | 38.53   | 38.36   | 38.20   |
| G 78.0 | 33.71  | 33.73   | 33.42   | 33.29   | 33.03   | 32.86   | 32.88   |
| G 79.0 | 28.57  | 28.50   | 28.31   | 28.11   | 27.89   | 27.79   | 27.78   |
| G 80.0 | 23.72  | 23.75   | 23.52   | 23.33   | 23.13   | 22.99   | 22.85   |
| G 81.0 | 19.31  | 19.35   | 19.14   | 18.94   | 18.65   | 18.51   | 18.47   |
| G 82.0 | 15.32  | 15.34   | 15.12   | 14.91   | 14.66   | 14.55   | 14.46   |
| G 83.0 | 11.74  | 11.83   | 11.55   | 11.35   | 11.10   | 10.98   | 10.91   |
| G 84.0 | 8.65   | 8.69    | 8.55    | 8.28    | 8.00    | 7.97    | 7.82    |
| G 85.0 | 6.21   | 6.32    | 5.99    | 5.70    | 5.58    | 5.41    | 5.24    |
| G 86.0 | 3.99   | 4.17    | 3.85    | 3.78    | 3.46    | 3.41    | 3.11    |
| G 87.0 | 2.69   | 2.57    | 2.50    | 2.12    | 1.92    | 1.95    | 1.78    |
| G 88.0 | 1.39   | 1.54    | 1.35    | 1.35    | 0.90    | 0.81    | 0.83    |
| G 89.0 | 0.29   | 0.74    | 0.42    | 0.61    | 0.38    | 0.29    | 0.22    |
| G 90.0 | 0.03   | 0.28    | 0.05    | 0.18    | 0.11    | 0.05    | 0.06    |

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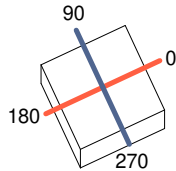
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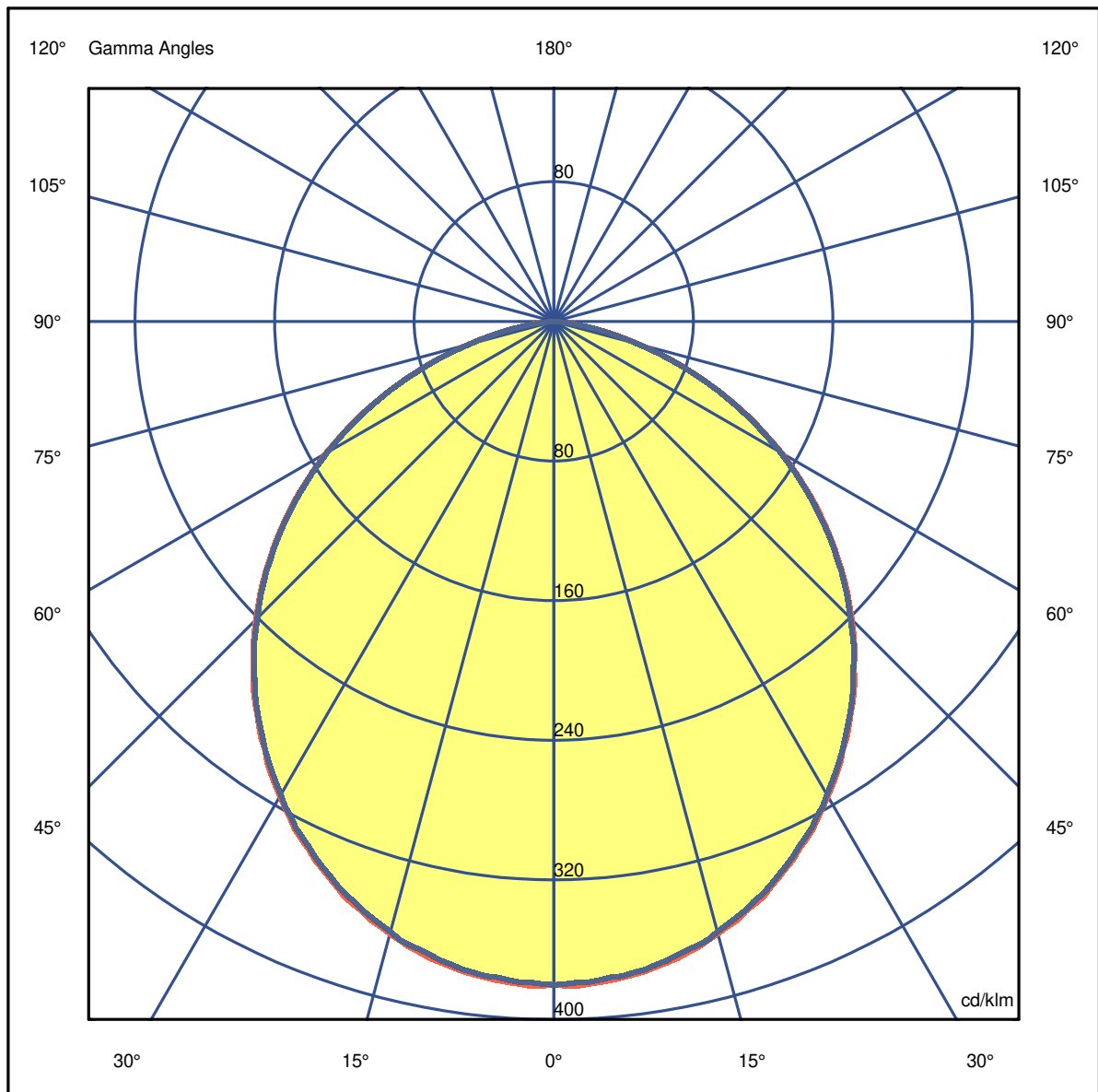
|                |        |                 |               |          |               |            |                    |
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| Source Flux    | 669 lm | Maximum value   | 380.97 cd/klm | Position | C=0.00 G=2.00 | CG         | Double Symmetrical |

145mm x 145mm



C Halfplanes

180.0 ———— 0.0  
270.0 ———— 90.0



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## Luminaire

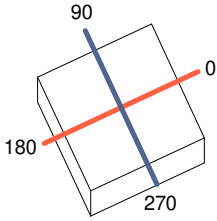
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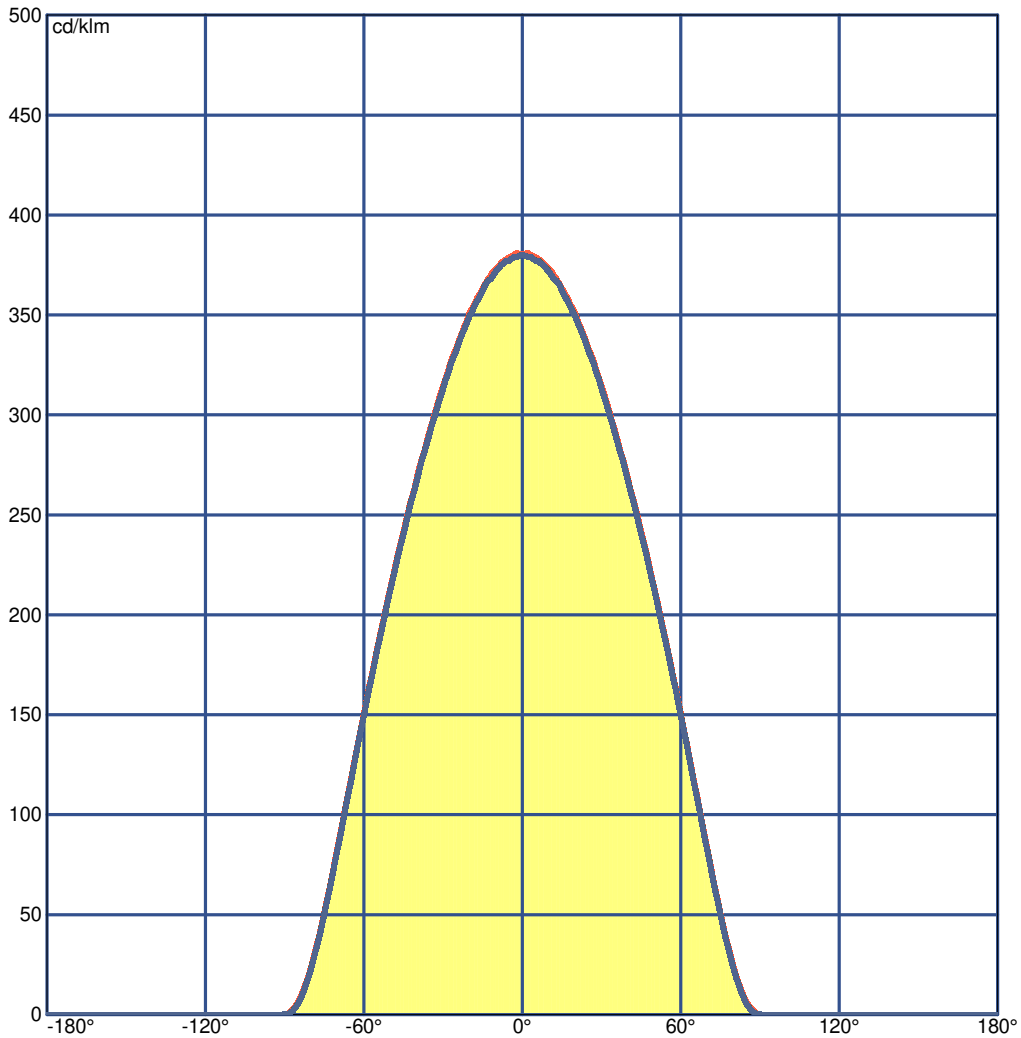
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**UGR**  
S = 0.250

| Reflectancies   |              |      |      |      |      |                |      |      |      |      |
|-----------------|--------------|------|------|------|------|----------------|------|------|------|------|
| Ceiling/Cavity  | 0.7          | 0.7  | 0.5  | 0.5  | 0.3  | 0.7            | 0.7  | 0.5  | 0.5  | 0.3  |
| Walls           | 0.5          | 0.3  | 0.5  | 0.3  | 0.3  | 0.5            | 0.3  | 0.5  | 0.3  | 0.3  |
| Working Plane   | 0.2          | 0.2  | 0.2  | 0.2  | 0.2  | 0.2            | 0.2  | 0.2  | 0.2  | 0.2  |
| Room Dimensions | Lateral View |      |      |      |      | Viewed Endwise |      |      |      |      |
| x=2H y=2H       | 24.4         | 25.7 | 24.7 | 25.9 | 26.1 | 24.4           | 25.6 | 24.7 | 25.9 | 26.1 |
| x=2H y=3H       | 25.7         | 26.8 | 26.0 | 27.1 | 27.4 | 25.6           | 26.8 | 26.0 | 27.1 | 27.3 |
| x=2H y=4H       | 26.1         | 27.2 | 26.4 | 27.5 | 27.8 | 26.1           | 27.2 | 26.4 | 27.4 | 27.7 |
| x=2H y=6H       | 26.3         | 27.3 | 26.6 | 27.6 | 27.9 | 26.2           | 27.2 | 26.6 | 27.5 | 27.9 |
| x=2H y=8H       | 26.3         | 27.3 | 26.7 | 27.6 | 27.9 | 26.3           | 27.2 | 26.6 | 27.5 | 27.9 |
| x=2H y=12H      | 26.3         | 27.2 | 26.7 | 27.5 | 27.9 | 26.2           | 27.2 | 26.6 | 27.5 | 27.8 |
| x=4H y=2H       | 25.0         | 26.1 | 25.3 | 26.4 | 26.7 | 25.0           | 26.1 | 25.3 | 26.3 | 26.6 |
| x=4H y=3H       | 26.4         | 27.4 | 26.8 | 27.7 | 28.0 | 26.4           | 27.3 | 26.8 | 27.7 | 28.0 |
| x=4H y=4H       | 27.0         | 27.8 | 27.4 | 28.1 | 28.5 | 26.9           | 27.7 | 27.3 | 28.1 | 28.4 |
| x=4H y=6H       | 27.2         | 27.9 | 27.7 | 28.3 | 28.7 | 27.2           | 27.9 | 27.6 | 28.3 | 28.7 |
| x=4H y=8H       | 27.3         | 27.9 | 27.7 | 28.3 | 28.7 | 27.2           | 27.9 | 27.7 | 28.3 | 28.7 |
| x=4H y=12H      | 27.3         | 27.9 | 27.7 | 28.3 | 28.7 | 27.2           | 27.8 | 27.7 | 28.2 | 28.7 |
| x=8H y=4H       | 27.1         | 27.8 | 27.6 | 28.2 | 28.6 | 27.1           | 27.7 | 27.5 | 28.1 | 28.5 |
| x=8H y=6H       | 27.5         | 28.0 | 27.9 | 28.4 | 28.9 | 27.4           | 28.0 | 27.9 | 28.4 | 28.8 |
| x=8H y=8H       | 27.6         | 28.0 | 28.0 | 28.5 | 28.9 | 27.5           | 28.0 | 28.0 | 28.4 | 28.9 |
| x=8H y=12H      | 27.6         | 28.0 | 28.1 | 28.4 | 28.9 | 27.5           | 27.9 | 28.0 | 28.4 | 28.9 |
| x=12H y=4H      | 27.1         | 27.7 | 27.6 | 28.1 | 28.6 | 27.1           | 27.7 | 27.5 | 28.1 | 28.5 |
| x=12H y=6H      | 27.5         | 27.9 | 28.0 | 28.4 | 28.9 | 27.4           | 27.9 | 27.9 | 28.3 | 28.8 |
| x=12H y=8H      | 27.6         | 28.0 | 28.1 | 28.4 | 28.9 | 27.5           | 27.9 | 28.0 | 28.4 | 28.9 |

# LEDS C4<sup>2</sup>

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| Luminaire Flux | 669 lm | Luminaire Power | 11.6 W        | Efficacy | 57.684 lm/W   | Efficiency | 100.00%            |
| Source Flux    | 669 lm | Maximum value   | 380.97 cd/klm | Position | C=0.00 G=2.00 | CG         | Double Symmetrical |

Total Flux=669.14 Luminaire Flux=669.14

|     |      |      |      |      |      |      |      |      |      |      |       |       |
|-----|------|------|------|------|------|------|------|------|------|------|-------|-------|
| RI  | 0.60 | 0.80 | 1.00 | 1.25 | 1.50 | 2.00 | 2.50 | 3.00 | 4.00 | 5.00 | 10.00 | 20.00 |
| DRR | 0.32 | 0.41 | 0.49 | 0.56 | 0.62 | 0.70 | 0.76 | 0.80 | 0.85 | 0.88 | 0.94  | 0.97  |
| RC  | 5    | 5    | 5    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4     | 3     |

Zonal Flux per 1000 Lumen

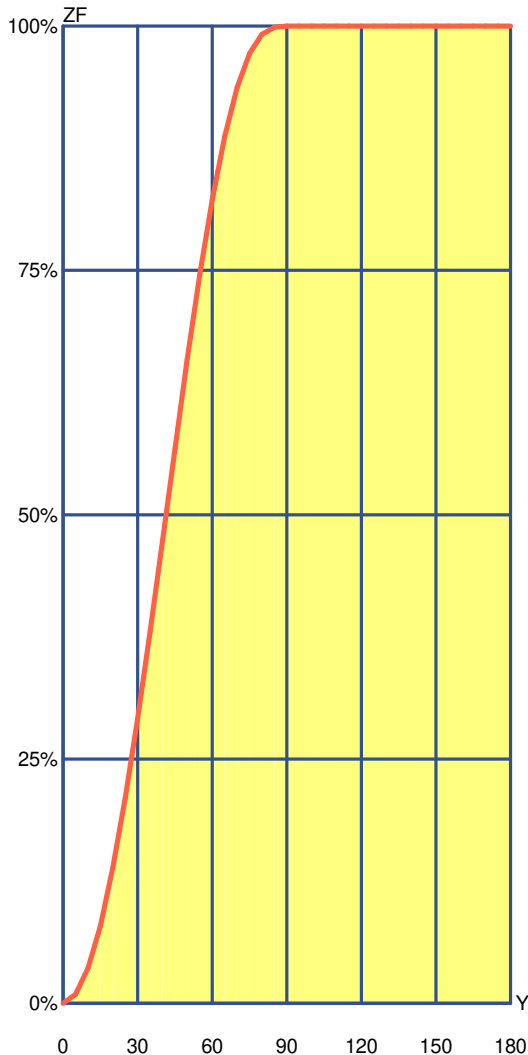
|       |    |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |
|-------|----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|
| Y°    | 10 | 20  | 30  | 40  | 50  | 60  | 70  | 80  | 90   | 100  | 110  | 120  | 130  | 140  | 150  | 160  | 170  | 180  |
| ZF(Y) | 36 | 138 | 292 | 474 | 660 | 822 | 937 | 991 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |

CIE Flux Codes

50 82 97 100 100

C.I.E. 5/5/5/4/4/4/4/4/4/4/3  
D DIN 5040 A30  
F UTE 1.00 E  
B NBN BZ 4  
RN 0.00000 %  
BLF 1.0

LOR 100.00000 %  
ULOR 0.00000 %  
DLOR 100.00000 %  
UFF 0.00000 %  
DFF 100.00000 %  
FFR 0.00000 %



| Gamma ° | Zonal Flux |         |          |         |
|---------|------------|---------|----------|---------|
|         | Flux       | Sum lm  | Flux [%] | Sum [%] |
| 0°      | 0.00       | 0.00    | 0.00%    | 0.00%   |
| 5°      | 9.06       | 9.06    | 0.91%    | 0.91%   |
| 10°     | 26.84      | 35.91   | 2.68%    | 3.59%   |
| 15°     | 43.59      | 79.49   | 4.36%    | 7.95%   |
| 20°     | 58.67      | 138.16  | 5.87%    | 13.82%  |
| 25°     | 71.56      | 209.72  | 7.16%    | 20.97%  |
| 30°     | 81.81      | 291.53  | 8.18%    | 29.15%  |
| 35°     | 89.11      | 380.64  | 8.91%    | 38.06%  |
| 40°     | 93.27      | 473.92  | 9.33%    | 47.39%  |
| 45°     | 94.13      | 568.04  | 9.41%    | 56.80%  |
| 50°     | 91.64      | 659.69  | 9.16%    | 65.97%  |
| 55°     | 85.83      | 745.52  | 8.58%    | 74.55%  |
| 60°     | 76.78      | 822.29  | 7.68%    | 82.23%  |
| 65°     | 64.79      | 887.08  | 6.48%    | 88.71%  |
| 70°     | 50.38      | 937.46  | 5.04%    | 93.75%  |
| 75°     | 34.61      | 972.07  | 3.46%    | 97.21%  |
| 80°     | 19.39      | 991.47  | 1.94%    | 99.15%  |
| 85°     | 7.38       | 998.85  | 0.74%    | 99.89%  |
| 90°     | 1.15       | 1000.00 | 0.11%    | 100.00% |
| 95°     | 0.00       | 1000.00 | 0.00%    | 100.00% |
| 100°    | 0.00       | 1000.00 | 0.00%    | 100.00% |
| 105°    | 0.00       | 1000.00 | 0.00%    | 100.00% |
| 110°    | 0.00       | 1000.00 | 0.00%    | 100.00% |
| 115°    | 0.00       | 1000.00 | 0.00%    | 100.00% |
| 120°    | 0.00       | 1000.00 | 0.00%    | 100.00% |
| 125°    | 0.00       | 1000.00 | 0.00%    | 100.00% |
| 130°    | 0.00       | 1000.00 | 0.00%    | 100.00% |
| 135°    | 0.00       | 1000.00 | 0.00%    | 100.00% |
| 140°    | 0.00       | 1000.00 | 0.00%    | 100.00% |
| 145°    | 0.00       | 1000.00 | 0.00%    | 100.00% |
| 150°    | 0.00       | 1000.00 | 0.00%    | 100.00% |
| 155°    | 0.00       | 1000.00 | 0.00%    | 100.00% |
| 160°    | 0.00       | 1000.00 | 0.00%    | 100.00% |
| 165°    | 0.00       | 1000.00 | 0.00%    | 100.00% |
| 170°    | 0.00       | 1000.00 | 0.00%    | 100.00% |
| 175°    | 0.00       | 1000.00 | 0.00%    | 100.00% |
| 180°    | 0.00       | 1000.00 | 0.00%    | 100.00% |

# LEDS C4<sup>+</sup>

## Luminaire

Code 05-E064-Z5-OU\_2700K\_1  
Name MODIS

## Measurement

Code 05-E064-Z5-OU\_2700K\_1  
Name MODIS

|                |        |                 |               |          |               |            |                    |
|----------------|--------|-----------------|---------------|----------|---------------|------------|--------------------|
| Luminaire Flux | 669 lm | Luminaire Power | 11.6 W        | Efficacy | 57.684 lm/W   | Efficiency | 100.00%            |
| Source Flux    | 669 lm | Maximum value   | 380.97 cd/klm | Position | C=0.00 G=2.00 | CG         | Double Symmetrical |

## Utilizations CIE

| Mounting | Direct | Normalization |      |      |      |      |      |      |      |      |      | Normalised |      |      |      |      |      |      |      |      |      | Suspension Ratid/3 |      |      |     |     |     |     |     |     |     | Standard CIE Settings |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |      |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |      |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |   |      |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |   |      |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |   |      |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |   |      |     |     |     |     |     |     |     |     |     |     |    |    |    |    |     |    |    |    |    |    |    |    |   |      |     |     |     |     |     |     |     |     |     |     |    |    |    |    |     |    |    |    |    |    |    |    |   |      |     |     |     |     |     |     |     |     |     |     |    |    |    |    |     |    |    |    |    |    |    |    |   |      |     |     |     |     |     |     |     |     |     |     |    |    |    |    |     |    |    |    |    |    |    |    |   |       |     |     |     |     |     |     |     |     |     |     |     |    |    |    |     |    |    |    |    |    |    |    |   |       |     |     |     |     |     |     |     |     |     |     |     |     |    |    |     |     |     |    |    |    |    |    |   |
|----------|--------|---------------|------|------|------|------|------|------|------|------|------|------------|------|------|------|------|------|------|------|------|------|--------------------|------|------|-----|-----|-----|-----|-----|-----|-----|-----------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|------|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|---|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|---|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|-----|----|----|----|----|----|----|----|---|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|-----|----|----|----|----|----|----|----|---|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|-----|----|----|----|----|----|----|----|---|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|-----|----|----|----|----|----|----|----|---|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|-----|----|----|----|----|----|----|----|---|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|-----|-----|----|----|----|----|----|---|
| Ceiling  |        |               |      |      |      |      |      |      |      |      |      |            |      |      |      |      |      |      |      |      |      |                    |      |      |     |     |     |     |     |     |     |                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |      |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |      |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |   |      |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |   |      |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |   |      |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |   |      |     |     |     |     |     |     |     |     |     |     |    |    |    |    |     |    |    |    |    |    |    |    |   |      |     |     |     |     |     |     |     |     |     |     |    |    |    |    |     |    |    |    |    |    |    |    |   |      |     |     |     |     |     |     |     |     |     |     |    |    |    |    |     |    |    |    |    |    |    |    |   |      |     |     |     |     |     |     |     |     |     |     |    |    |    |    |     |    |    |    |    |    |    |    |   |       |     |     |     |     |     |     |     |     |     |     |     |    |    |    |     |    |    |    |    |    |    |    |   |       |     |     |     |     |     |     |     |     |     |     |     |     |    |    |     |     |     |    |    |    |    |    |   |
| K        | 8873   | 8773          | 8871 | 8771 | 7773 | 7771 | 7753 | 7553 | 7751 | 7551 | 7731 | 7331       | 7711 | 7111 | 5551 | 5531 | 5331 | 5511 | 5111 | 3331 | 3311 | 1111               | 0000 | 0.60 | 215 | 193 | 168 | 151 | 184 | 144 | 111 | 94                    | 86 | 73 | 46 | 35 | 17 | 12 | 68 | 37 | 33 | 14 | 11 | 31 | 12 | 10 | 0 | 0.80 | 248 | 228 | 178 | 164 | 217 | 157 | 139 | 122 | 98 | 86 | 55 | 44 | 23 | 17 | 80 | 46 | 42 | 20 | 16 | 39 | 17 | 15 | 0 | 1.00 | 271 | 252 | 179 | 167 | 240 | 160 | 162 | 145 | 104 | 93 | 62 | 51 | 29 | 23 | 87 | 53 | 48 | 25 | 22 | 46 | 22 | 20 | 0 | 1.25 | 290 | 273 | 176 | 166 | 260 | 160 | 186 | 168 | 108 | 99 | 68 | 58 | 36 | 29 | 93 | 59 | 55 | 32 | 28 | 52 | 28 | 25 | 0 | 1.50 | 304 | 289 | 171 | 163 | 275 | 157 | 204 | 188 | 110 | 102 | 73 | 63 | 42 | 35 | 96 | 64 | 60 | 37 | 33 | 57 | 34 | 31 | 0 | 2.00 | 321 | 309 | 160 | 155 | 295 | 149 | 233 | 218 | 111 | 105 | 79 | 71 | 52 | 44 | 99 | 71 | 68 | 47 | 43 | 65 | 43 | 40 | 0 | 2.50 | 333 | 322 | 151 | 147 | 308 | 143 | 254 | 240 | 111 | 106 | 83 | 76 | 59 | 52 | 100 | 76 | 73 | 54 | 50 | 70 | 50 | 47 | 0 | 3.00 | 341 | 332 | 145 | 142 | 317 | 138 | 269 | 257 | 110 | 106 | 86 | 80 | 65 | 58 | 101 | 80 | 77 | 60 | 56 | 74 | 56 | 53 | 0 | 4.00 | 353 | 345 | 137 | 135 | 331 | 131 | 291 | 281 | 110 | 107 | 91 | 86 | 73 | 67 | 102 | 85 | 82 | 69 | 65 | 80 | 65 | 61 | 0 | 5.00 | 360 | 354 | 132 | 130 | 339 | 127 | 306 | 297 | 110 | 107 | 93 | 89 | 79 | 74 | 103 | 88 | 86 | 75 | 71 | 84 | 71 | 67 | 0 | 10.00 | 377 | 373 | 121 | 120 | 358 | 118 | 340 | 334 | 109 | 108 | 100 | 98 | 92 | 88 | 104 | 96 | 95 | 88 | 86 | 92 | 85 | 82 | 0 | 20.00 | 385 | 383 | 115 | 114 | 368 | 113 | 359 | 356 | 108 | 107 | 104 | 102 | 99 | 97 | 105 | 100 | 100 | 96 | 95 | 97 | 94 | 91 | 0 |

## Wall

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| K | 8873 | 8773 | 8871 | 8771 | 7773 | 7771 | 7753 | 7553 | 7751 | 7551 | 7731 | 7331 | 7711 | 7111 | 5551 | 5531 | 5331 | 5511 | 5111 | 3331 | 3311 | 1111 | 0000 | 0.60 | 460 | 448 | 400 | 392 | 442 | 387 | 348 | 340 | 313 | 307 | 262 | 258 | 226 | 224 | 304 | 258 | 257 | 224 | 223 | 256 | 224 | 223 | 203 | 0.80 | 515 | 502 | 434 | 426 | 493 | 420 | 401 | 392 | 350 | 345 | 301 | 295 | 263 | 261 | 340 | 296 | 294 | 261 | 260 | 292 | 260 | 259 | 235 | 1.00 | 549 | 537 | 450 | 443 | 525 | 436 | 438 | 428 | 373 | 367 | 326 | 320 | 289 | 286 | 362 | 320 | 318 | 286 | 285 | 315 | 285 | 283 | 256 | 1.25 | 579 | 567 | 460 | 454 | 553 | 447 | 472 | 461 | 391 | 385 | 347 | 341 | 312 | 308 | 379 | 340 | 338 | 309 | 307 | 335 | 306 | 304 | 274 | 1.50 | 599 | 588 | 466 | 461 | 572 | 453 | 497 | 486 | 402 | 397 | 362 | 356 | 329 | 325 | 390 | 354 | 352 | 325 | 323 | 349 | 322 | 319 | 286 | 2.00 | 617 | 607 | 460 | 456 | 588 | 449 | 524 | 513 | 408 | 404 | 374 | 368 | 345 | 340 | 395 | 365 | 363 | 340 | 337 | 358 | 335 | 332 | 295 | 2.50 | 626 | 618 | 453 | 450 | 597 | 443 | 541 | 531 | 409 | 405 | 379 | 374 | 354 | 349 | 396 | 370 | 368 | 348 | 345 | 363 | 343 | 338 | 299 | 3.00 | 630 | 622 | 445 | 443 | 600 | 436 | 551 | 541 | 406 | 403 | 381 | 376 | 358 | 353 | 393 | 371 | 369 | 351 | 349 | 363 | 345 | 340 | 299 | 4.00 | 640 | 634 | 440 | 438 | 610 | 431 | 569 | 561 | 408 | 405 | 387 | 383 | 368 | 364 | 395 | 377 | 375 | 361 | 358 | 368 | 354 | 348 | 303 | 5.00 | 648 | 642 | 438 | 436 | 617 | 429 | 582 | 575 | 410 | 408 | 392 | 389 | 376 | 372 | 397 | 382 | 380 | 368 | 365 | 373 | 360 | 353 | 307 | 10.00 | 661 | 658 | 429 | 428 | 629 | 422 | 610 | 605 | 411 | 410 | 401 | 399 | 392 | 389 | 399 | 390 | 389 | 381 | 380 | 379 | 372 | 363 | 313 | 20.00 | 656 | 654 | 412 | 411 | 624 | 405 | 613 | 610 | 399 | 398 | 394 | 392 | 388 | 387 | 387 | 382 | 381 | 377 | 376 | 371 | 367 | 357 | 304 |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

## Working Pl.

|   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |     |     |      |     |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |      |     |      |     |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-----|-----|------|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|-----|------|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| K | 8873 | 8773 | 8871 | 8771 | 7773 | 7771 | 7753 | 7553 | 7751 | 7551 | 7731 | 7331 | 7711 | 7111 | 5551 | 5531 | 5331 | 5511 | 5111 | 3331 | 3311 | 1111 | 0000 | 0.60 | 608 | 595 | 567 | 558 | 588 | 552 | 474 | 466 | 456 | 450 | 391 | 386 | 344 | 342 | 446 | 387 | 385 | 342 | 342 | 384 | 342 | 341 | 324 | 0.80 | 718 | 703 | 661 | 652 | 691 | 644 | 578 | 568 | 551 | 544 | 485 | 479 | 435 | 433 | 538 | 479 | 477 | 433 | 432 | 474 | 431 | 430 | 413 | 1.00 | 803 | 788 | 732 | 723 | 773 | 713 | 663 | 652 | 627 | 620 | 563 | 556 | 514 | 510 | 612 | 555 | 553 | 510 | 508 | 549 | 508 | 506 | 488 | 1.25 | 883 | 868 | 795 | 787 | 849 | 777 | 746 | 733 | 699 | 692 | 639 | 631 | 590 | 585 | 682 | 629 | 626 | 586 | 583 | 621 | 582 | 579 | 562 | 1.50 | 941 | 927 | 841 | 834 | 905 | 822 | 809 | 795 | 752 | 745 | 695 | 688 | 649 | 644 | 733 | 684 | 681 | 643 | 640 | 675 | 638 | 634 | 618 | 2.00 | 1000 | 1000 | 904 | 899 | 987 | 887 | 904 | 891 | 829 | 823 | 781 | 774 | 740 | 734 | 809 | 768 | 765 | 732 | 729 | 757 | 725 | 720 | 705 | 2.50 | 1000 | 1000 | 943 | 939 | 1000 | 926 | 967 | 954 | 878 | 872 | 836 | 829 | 800 | 794 | 857 | 822 | 819 | 791 | 787 | 809 | 782 | 775 | 761 | 3.00 | 1000 | 1000 | 969 | 965 | 1000 | 953 | 1000 | 1000 | 912 | 907 | 875 | 869 | 844 | 837 | 891 | 860 | 857 | 832 | 828 | 846 | 822 | 814 | 801 | 4.00 | 1000 | 1000 | 1000 | 997 | 1000 | 985 | 1000 | 1000 | 952 | 948 | 923 | 917 | 897 | 890 | 930 | 906 | 903 | 883 | 879 | 891 | 871 | 861 | 848 | 5.00 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 976 | 973 | 952 | 946 | 929 | 923 | 954 | 933 | 931 | 914 | 911 | 917 | 901 | 889 | 877 | 10.00 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 999 | 995 | 990 | 981 | 979 | 973 | 964 | 948 | 937 | 20.00 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 998 | 980 | 970 |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-----|-----|------|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|-----|------|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|

LM53 SHR C0-C180: 1.226 SHR C90-C270: 1.226 SHR Square: 1.345



# LEDS C4<sup>2</sup>

## Luminaire

Code 05-E064-Z5-OU\_2700K\_1  
Name MODIS

## Measurem.

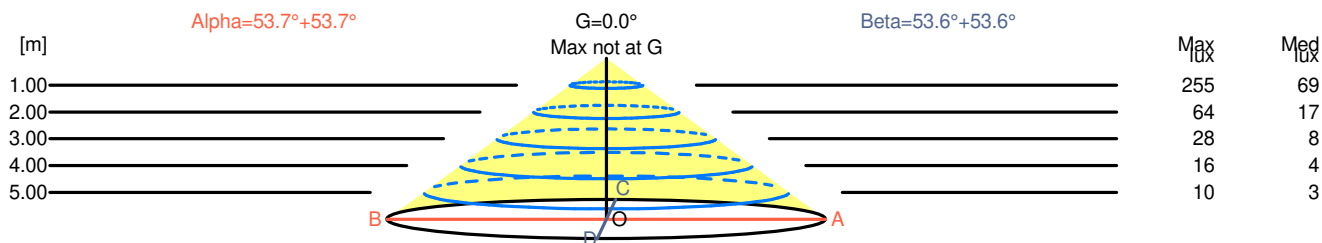
Code 05-E064-Z5-OU\_2700K\_1  
Name MODIS

|                |        |                 |               |          |               |            |                    |
|----------------|--------|-----------------|---------------|----------|---------------|------------|--------------------|
| Luminaire Flux | 669 lm | Luminaire Power | 11.6 W        | Efficacy | 57.684 lm/W   | Efficiency | 100.00%            |
| Source Flux    | 669 lm | Maximum value   | 380.97 cd/klm | Position | C=0.00 G=2.00 | CG         | Double Symmetrical |

Width at 50.00 % of Max Intensity

|      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|
| H[m] | 1.00 | 2.00 | 3.00 | 4.00 | 5.00 | H[m] | 1.00 | 2.00 | 3.00 | 4.00 | 5.00 |
| OA   | 1.36 | 2.73 | 4.09 | 5.45 | 6.81 | OC   | 1.36 | 2.71 | 4.07 | 5.42 | 6.78 |
| OB   | 1.36 | 2.73 | 4.09 | 5.45 | 6.81 | OD   | 1.36 | 2.71 | 4.07 | 5.42 | 6.78 |

|    | Luminous Intensities [ cd/klm] |        |        |        |        |        |        |       |       |      |
|----|--------------------------------|--------|--------|--------|--------|--------|--------|-------|-------|------|
|    | 0                              | 5      | 15     | 25     | 35     | 45     | 55     | 65    | 75    | 85   |
| OA | 254.37                         | 253.46 | 243.03 | 222.98 | 195.56 | 161.62 | 122.27 | 78.20 | 33.97 | 4.15 |
| OB | 254.37                         | 253.46 | 243.03 | 222.98 | 195.56 | 161.62 | 122.27 | 78.20 | 33.97 | 4.15 |
| OC | 254.37                         | 252.31 | 242.20 | 222.23 | 194.69 | 160.90 | 121.80 | 77.68 | 33.49 | 3.51 |
| OD | 254.37                         | 252.31 | 242.20 | 222.23 | 194.69 | 160.90 | 121.80 | 77.68 | 33.49 | 3.51 |



| H[m] | D[m]  | Max lux | Med lux | Alpha=53.7°+53.7° | G=0.0° Max not at G |  |
|------|-------|---------|---------|-------------------|---------------------|--|
| 1.00 | 2.73  | 255     | 69      |                   |                     |  |
| 2.00 | 5.45  | 64      | 17      |                   |                     |  |
| 3.00 | 8.18  | 28      | 8       |                   |                     |  |
| 4.00 | 10.90 | 16      | 4       |                   |                     |  |
| 5.00 | 13.63 | 10      | 3       |                   |                     |  |

| H[m] | D[m]  | Max lux | Med lux | Beta=53.6°+53.6° | G=0.0° Max not at G |  |
|------|-------|---------|---------|------------------|---------------------|--|
| 1.00 | 2.71  | 255     | 69      |                  |                     |  |
| 2.00 | 5.42  | 64      | 17      |                  |                     |  |
| 3.00 | 8.13  | 28      | 8       |                  |                     |  |
| 4.00 | 10.84 | 16      | 4       |                  |                     |  |
| 5.00 | 13.55 | 10      | 3       |                  |                     |  |

# LEDS C4<sup>+</sup>

**Luminaire**

Code 05-E064-Z5-OU\_2700K\_1  
 Name MODIS

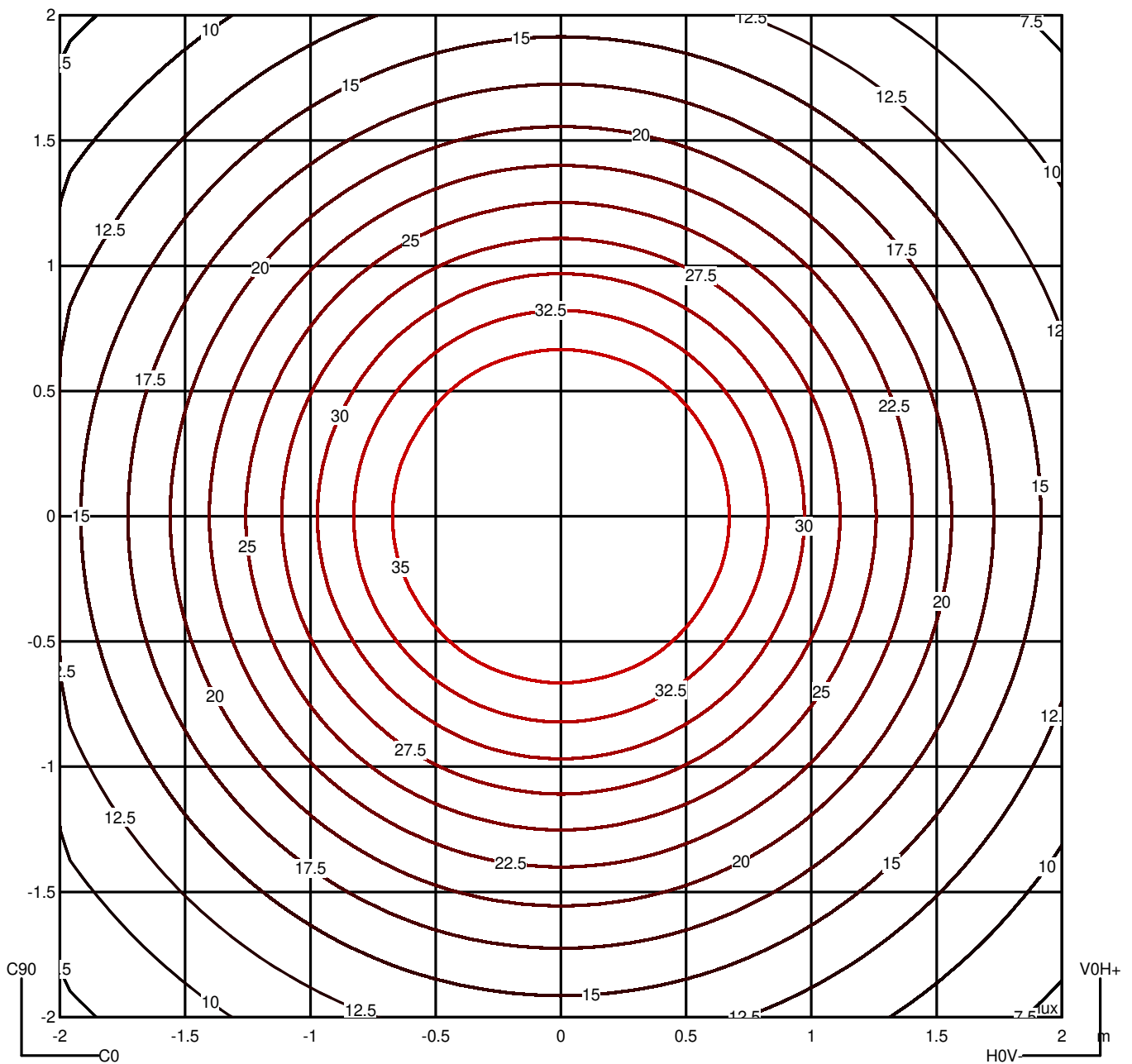
**Measurum.**

Code 05-E064-Z5-OU\_2700K\_1  
 Name MODIS

|                |        |                 |               |          |               |            |                    |
|----------------|--------|-----------------|---------------|----------|---------------|------------|--------------------|
| Luminaire Flux | 669 lm | Luminaire Power | 11.6 W        | Efficacy | 57.684 lm/W   | Efficiency | 100.00%            |
| Source Flux    | 669 lm | Maximum value   | 380.97 cd/klm | Position | C=0.00 G=2.00 | CG         | Double Symmetrical |

Isolux (Floor)

Luminaire position X=0.00m Y=0.00m Z=2.50m



# LEDS C4<sup>®</sup>

**Luminaire**

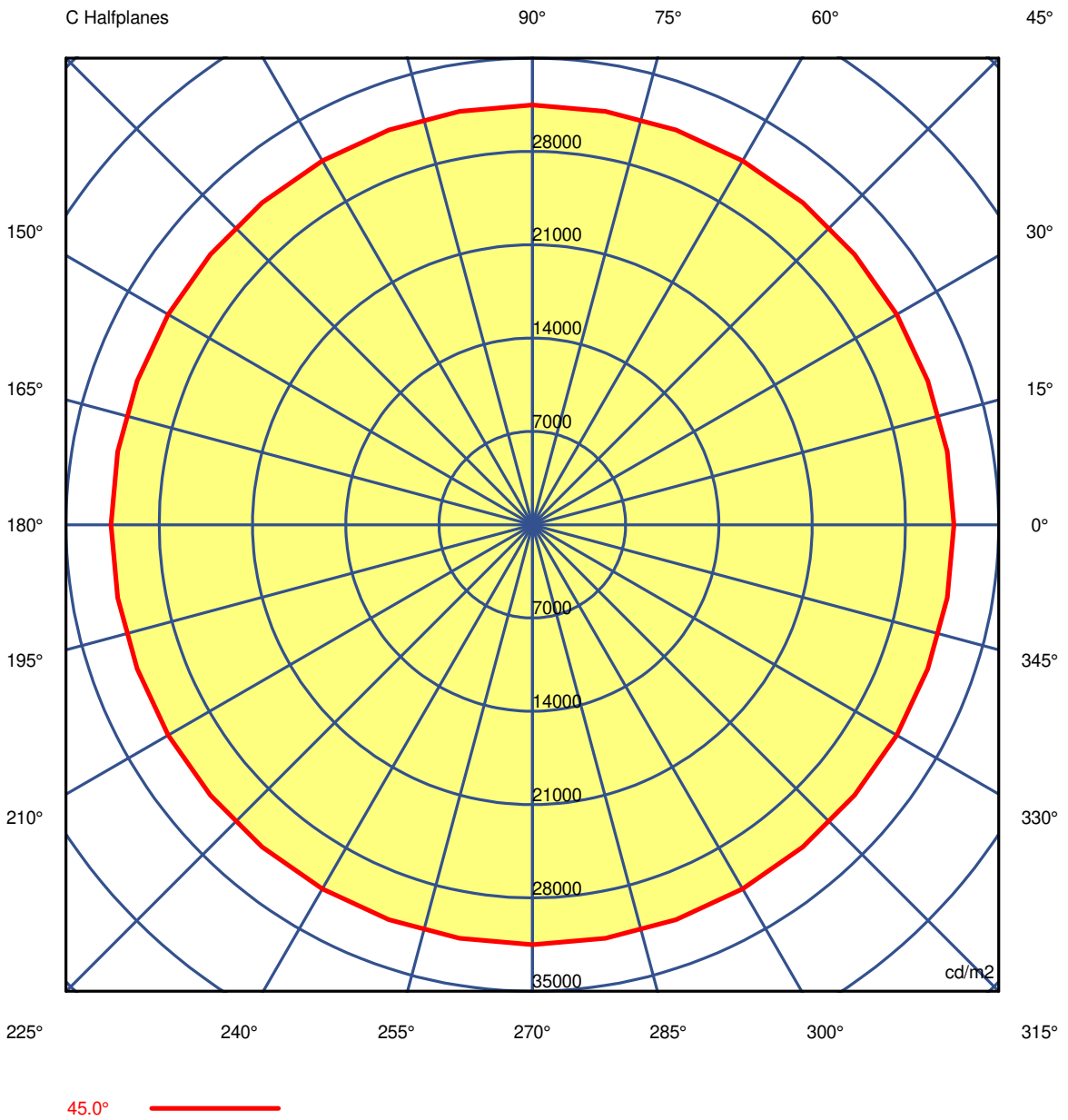
Code 05-E064-Z5-OU\_2700K\_1  
 Name MODIS

**Measurem.**

Code 05-E064-Z5-OU\_2700K\_1  
 Name MODIS

|                |        |                 |               |          |               |            |                    |
|----------------|--------|-----------------|---------------|----------|---------------|------------|--------------------|
| Luminaire Flux | 669 lm | Luminaire Power | 11.6 W        | Efficacy | 57.684 lm/W   | Efficiency | 100.00%            |
| Source Flux    | 669 lm | Maximum value   | 380.97 cd/klm | Position | C=0.00 G=2.00 | CG         | Double Symmetrical |

Luminance



# LEDS C4<sup>+</sup>

## Luminaire

Code 05-E064-Z5-OU\_2700K\_1  
Name MODIS

## Measurement

Code 05-E064-Z5-OU\_2700K\_1  
Name MODIS

|                |        |                 |               |          |               |            |                    |
|----------------|--------|-----------------|---------------|----------|---------------|------------|--------------------|
| Luminaire Flux | 669 lm | Luminaire Power | 11.6 W        | Efficacy | 57.684 lm/W   | Efficiency | 100.00%            |
| Source Flux    | 669 lm | Maximum value   | 380.97 cd/klm | Position | C=0.00 G=2.00 | CG         | Double Symmetrical |

Luminance cd/m2 Table 1/3

|        | C 0.00   | C 10.00  | C 20.00  | C 30.00  | C 40.00  | C 50.00  | C 60.00  | C 70.00  | C 80.00  | C 90.00  | C 100.00 | C 110.00 | C 120.00 |
|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| G 0.0  | 35207.20 | 35207.20 | 35207.20 | 35207.20 | 35207.20 | 35207.20 | 35207.20 | 35207.20 | 35207.20 | 35207.20 | 35207.20 | 35207.20 | 35207.20 |
| G 5.0  | 35214.76 | 35180.73 | 35166.17 | 35162.67 | 35143.59 | 35119.51 | 35104.49 | 35100.36 | 35085.61 | 35054.61 | 35085.61 | 35100.36 | 35104.49 |
| G 10.0 | 35090.47 | 35038.82 | 35032.07 | 35042.81 | 35008.14 | 35003.95 | 35025.04 | 34987.89 | 34958.95 | 34970.80 | 34958.95 | 34987.89 | 35025.04 |
| G 15.0 | 34824.03 | 34840.19 | 34802.58 | 34744.62 | 34759.62 | 34777.03 | 34771.16 | 34732.67 | 34711.55 | 34704.99 | 34711.55 | 34732.67 | 34771.16 |
| G 20.0 | 34582.17 | 34500.37 | 34446.81 | 34428.83 | 34432.73 | 34435.59 | 34431.98 | 34425.72 | 34424.73 | 34430.14 | 34424.73 | 34425.72 | 34431.98 |
| G 25.0 | 34052.91 | 34048.30 | 34023.41 | 33995.08 | 33997.15 | 33992.49 | 33984.07 | 34037.84 | 34033.69 | 33937.78 | 34033.69 | 34037.84 | 33984.07 |
| G 30.0 | 33574.27 | 33554.11 | 33550.85 | 33555.10 | 33540.27 | 33515.41 | 33502.51 | 33512.71 | 33500.83 | 33454.29 | 33500.83 | 33512.71 | 33502.51 |
| G 35.0 | 33043.49 | 33038.57 | 33024.36 | 33004.13 | 32994.80 | 32956.80 | 32902.87 | 32950.25 | 32966.23 | 32895.98 | 32966.23 | 32950.25 | 32902.87 |
| G 40.0 | 32428.97 | 32394.79 | 32357.00 | 32336.54 | 32356.34 | 32353.37 | 32313.73 | 32284.47 | 32274.98 | 32271.56 | 32274.98 | 32284.47 | 32313.73 |
| G 45.0 | 31635.72 | 31599.53 | 31578.82 | 31571.69 | 31562.93 | 31552.61 | 31538.77 | 31517.62 | 31501.41 | 31493.99 | 31501.41 | 31517.62 | 31538.77 |
| G 50.0 | 30666.38 | 30699.87 | 30672.95 | 30619.67 | 30634.83 | 30645.67 | 30626.41 | 30590.14 | 30564.76 | 30556.65 | 30564.76 | 30590.14 | 30626.41 |
| G 55.0 | 29504.27 | 29497.31 | 29466.83 | 29409.74 | 29399.59 | 29390.26 | 29365.17 | 29357.53 | 29368.74 | 29390.13 | 29368.74 | 29357.53 | 29365.17 |
| G 60.0 | 27891.54 | 27862.22 | 27839.73 | 27815.95 | 27780.17 | 27767.82 | 27771.39 | 27746.64 | 27719.68 | 27706.11 | 27719.68 | 27746.64 | 27771.39 |
| G 65.0 | 25611.85 | 25595.14 | 25594.98 | 25598.19 | 25559.69 | 25543.79 | 25543.37 | 25503.86 | 25461.88 | 25439.90 | 25461.88 | 25503.86 | 25543.37 |
| G 70.0 | 22455.53 | 22429.38 | 22409.84 | 22388.20 | 22352.20 | 22333.97 | 22328.30 | 22297.60 | 22267.63 | 22252.29 | 22267.63 | 22297.60 | 22328.30 |
| G 75.0 | 18166.01 | 18184.73 | 18158.45 | 18104.97 | 18078.08 | 18030.23 | 17960.93 | 17925.98 | 17914.52 | 17909.27 | 17914.52 | 17925.98 | 17960.93 |
| G 80.0 | 12649.06 | 12673.61 | 12633.60 | 12543.52 | 12473.57 | 12405.63 | 12334.90 | 12283.68 | 12238.41 | 12189.43 | 12238.41 | 12283.68 | 12334.90 |
| G 85.0 | 6593.76  | 6725.45  | 6638.59  | 6362.94  | 6131.20  | 6002.61  | 5924.65  | 5808.75  | 5683.18  | 5570.70  | 5683.18  | 5808.75  | 5924.65  |
| G 90.0 | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     |

# LEDS C4<sup>+</sup>

## Luminaire

Code 05-E064-Z5-OU\_2700K\_1  
Name MODIS

## Measurement

Code 05-E064-Z5-OU\_2700K\_1  
Name MODIS

|                |        |                 |               |          |               |            |                    |
|----------------|--------|-----------------|---------------|----------|---------------|------------|--------------------|
| Luminaire Flux | 669 lm | Luminaire Power | 11.6 W        | Efficacy | 57.684 lm/W   | Efficiency | 100.00%            |
| Source Flux    | 669 lm | Maximum value   | 380.97 cd/klm | Position | C=0.00 G=2.00 | CG         | Double Symmetrical |

Luminance cd/m2 Table 2/3

|        | C 130.00 | C 140.00 | C 150.00 | C 160.00 | C 170.00 | C 180.00 | C 190.00 | C 200.00 | C 210.00 | C 220.00 | C 230.00 | C 240.00 | C 250.00 |
|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| G 0.0  | 35207.20 | 35207.20 | 35207.20 | 35207.20 | 35207.20 | 35207.20 | 35207.20 | 35207.20 | 35207.20 | 35207.20 | 35207.20 | 35207.20 | 35207.20 |
| G 5.0  | 35119.51 | 35143.59 | 35162.67 | 35166.17 | 35180.73 | 35214.76 | 35180.73 | 35166.17 | 35162.67 | 35143.59 | 35119.51 | 35104.49 | 35100.36 |
| G 10.0 | 35003.95 | 35008.14 | 35042.81 | 35032.07 | 35038.82 | 35090.47 | 35038.82 | 35032.07 | 35042.81 | 35008.14 | 35003.95 | 35025.04 | 34987.89 |
| G 15.0 | 34777.03 | 34759.62 | 34744.62 | 34802.58 | 34840.19 | 34824.03 | 34840.19 | 34802.58 | 34744.62 | 34759.62 | 34777.03 | 34771.16 | 34732.67 |
| G 20.0 | 34435.59 | 34432.73 | 34428.83 | 34446.81 | 34500.37 | 34582.17 | 34500.37 | 34446.81 | 34428.83 | 34432.73 | 34435.59 | 34431.98 | 34425.72 |
| G 25.0 | 33992.49 | 33997.15 | 33995.08 | 34023.41 | 34048.30 | 34052.91 | 34048.30 | 34023.41 | 33995.08 | 33997.15 | 33992.49 | 33984.07 | 34037.84 |
| G 30.0 | 33515.41 | 33540.27 | 33555.10 | 33550.85 | 33554.11 | 33574.27 | 33554.11 | 33550.85 | 33555.10 | 33540.27 | 33515.41 | 33502.51 | 33512.71 |
| G 35.0 | 32956.80 | 32994.80 | 33004.13 | 33024.36 | 33038.57 | 33043.49 | 33038.57 | 33024.36 | 33004.13 | 32994.80 | 32956.80 | 32902.87 | 32950.25 |
| G 40.0 | 32353.37 | 32356.34 | 32336.54 | 32357.00 | 32394.79 | 32428.97 | 32394.79 | 32357.00 | 32336.54 | 32356.34 | 32353.37 | 32313.73 | 32284.47 |
| G 45.0 | 31552.61 | 31562.93 | 31571.69 | 31578.82 | 31599.53 | 31635.72 | 31599.53 | 31578.82 | 31571.69 | 31562.93 | 31552.61 | 31538.77 | 31517.62 |
| G 50.0 | 30645.67 | 30634.83 | 30619.67 | 30672.95 | 30699.87 | 30666.38 | 30699.87 | 30672.95 | 30619.67 | 30634.83 | 30645.67 | 30626.41 | 30590.14 |
| G 55.0 | 29390.26 | 29399.59 | 29409.74 | 29466.83 | 29497.31 | 29504.27 | 29497.31 | 29466.83 | 29409.74 | 29399.59 | 29390.26 | 29365.17 | 29357.53 |
| G 60.0 | 27767.82 | 27780.17 | 27815.95 | 27839.73 | 27862.22 | 27891.54 | 27862.22 | 27839.73 | 27815.95 | 27780.17 | 27767.82 | 27771.39 | 27746.64 |
| G 65.0 | 25543.79 | 25559.69 | 25598.19 | 25594.98 | 25595.14 | 25611.85 | 25595.14 | 25594.98 | 25559.69 | 25543.79 | 25543.37 | 25543.79 | 25503.86 |
| G 70.0 | 22333.97 | 22352.20 | 22388.20 | 22409.84 | 22429.38 | 22455.53 | 22429.38 | 22409.84 | 22388.20 | 22352.20 | 22333.97 | 22328.30 | 22297.60 |
| G 75.0 | 18030.23 | 18078.08 | 18104.97 | 18158.45 | 18184.73 | 18166.01 | 18184.73 | 18158.45 | 18104.97 | 18078.08 | 18030.23 | 17960.93 | 17925.98 |
| G 80.0 | 12405.63 | 12473.57 | 12543.52 | 12633.60 | 12673.61 | 12649.06 | 12673.61 | 12633.60 | 12543.52 | 12473.57 | 12405.63 | 12334.90 | 12283.68 |
| G 85.0 | 6002.61  | 6131.20  | 6362.94  | 6638.59  | 6725.45  | 6593.76  | 6725.45  | 6638.59  | 6362.94  | 6131.20  | 6002.61  | 5924.65  | 5808.75  |
| G 90.0 | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     |

# LEDS C4<sup>®</sup>

## Luminaire

Code 05-E064-Z5-OU\_2700K\_1  
Name MODIS

## Measurment

Code 05-E064-Z5-OU\_2700K\_1  
Name MODIS

|                |        |                 |               |          |               |            |                    |
|----------------|--------|-----------------|---------------|----------|---------------|------------|--------------------|
| Luminaire Flux | 669 lm | Luminaire Power | 11.6 W        | Efficacy | 57.684 lm/W   | Efficiency | 100.00%            |
| Source Flux    | 669 lm | Maximum value   | 380.97 cd/klm | Position | C=0.00 G=2.00 | CG         | Double Symmetrical |

Luminance cd/m2 Table 3/3

|        | C 260.00 | C 270.00 | C 280.00 | C 290.00 | C 300.00 | C 310.00 | C 320.00 | C 330.00 | C 340.00 | C 350.00 |
|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| G 0.0  | 35207.20 | 35207.20 | 35207.20 | 35207.20 | 35207.20 | 35207.20 | 35207.20 | 35207.20 | 35207.20 | 35207.20 |
| G 5.0  | 35085.61 | 35054.61 | 35085.61 | 35100.36 | 35104.49 | 35119.51 | 35143.59 | 35162.67 | 35166.17 | 35180.73 |
| G 10.0 | 34958.95 | 34970.80 | 34958.95 | 34987.89 | 35025.04 | 35003.95 | 35008.14 | 35042.81 | 35032.07 | 35038.82 |
| G 15.0 | 34711.55 | 34704.99 | 34711.55 | 34732.67 | 34771.16 | 34777.03 | 34759.62 | 34744.62 | 34802.58 | 34840.19 |
| G 20.0 | 34424.73 | 34430.14 | 34424.73 | 34425.72 | 34431.98 | 34435.59 | 34432.73 | 34428.83 | 34446.81 | 34500.37 |
| G 25.0 | 34033.69 | 33937.78 | 34033.69 | 34037.84 | 33984.07 | 33992.49 | 33997.15 | 33995.08 | 34023.41 | 34048.30 |
| G 30.0 | 33500.83 | 33454.29 | 33500.83 | 33512.71 | 33502.51 | 33515.41 | 33540.27 | 33555.10 | 33550.85 | 33554.11 |
| G 35.0 | 32966.23 | 32895.98 | 32966.23 | 32950.25 | 32902.87 | 32956.80 | 32994.80 | 33004.13 | 33024.36 | 33038.57 |
| G 40.0 | 32274.98 | 32271.56 | 32274.98 | 32284.47 | 32313.73 | 32353.37 | 32356.34 | 32336.54 | 32357.00 | 32394.79 |
| G 45.0 | 31501.41 | 31493.99 | 31501.41 | 31517.62 | 31538.77 | 31552.61 | 31562.93 | 31571.69 | 31578.82 | 31599.53 |
| G 50.0 | 30564.76 | 30556.65 | 30564.76 | 30590.14 | 30626.41 | 30645.67 | 30634.83 | 30619.67 | 30672.95 | 30699.87 |
| G 55.0 | 29368.74 | 29390.13 | 29368.74 | 29357.53 | 29365.17 | 29390.26 | 29399.59 | 29409.74 | 29466.83 | 29497.31 |
| G 60.0 | 27719.68 | 27706.11 | 27719.68 | 27746.64 | 27771.39 | 27767.82 | 27780.17 | 27815.95 | 27839.73 | 27862.22 |
| G 65.0 | 25461.88 | 25439.90 | 25461.88 | 25503.86 | 25543.37 | 25543.79 | 25559.69 | 25598.19 | 25594.98 | 25595.14 |
| G 70.0 | 22267.63 | 22252.29 | 22267.63 | 22297.60 | 22328.30 | 22333.97 | 22352.20 | 22388.20 | 22409.84 | 22429.38 |
| G 75.0 | 17914.52 | 17909.27 | 17914.52 | 17925.98 | 17960.93 | 18030.23 | 18078.08 | 18104.97 | 18158.45 | 18184.73 |
| G 80.0 | 12238.41 | 12189.43 | 12238.41 | 12283.68 | 12334.90 | 12405.63 | 12473.57 | 12543.52 | 12633.60 | 12673.61 |
| G 85.0 | 5683.18  | 5570.70  | 5683.18  | 5808.75  | 5924.65  | 6002.61  | 6131.20  | 6362.94  | 6638.59  | 6725.45  |
| G 90.0 | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     |

# LEDS C4<sup>2</sup>

## Luminaire

Code 05-E064-Z5-OU\_2700K\_1

Name MODIS

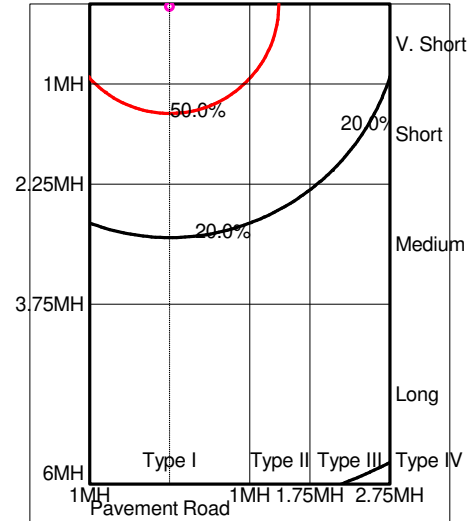
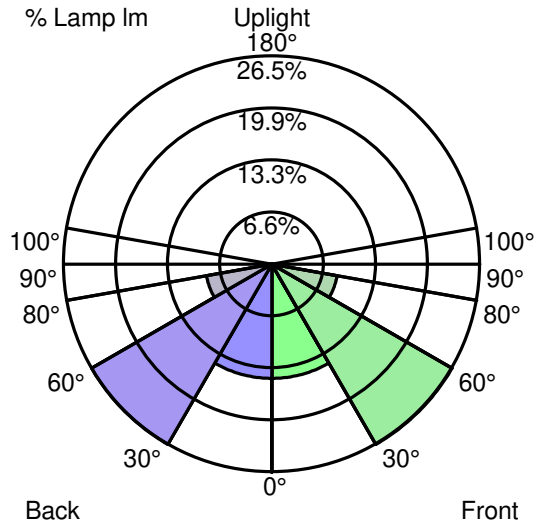
## Measurement

Code 05-E064-Z5-OU\_2700K\_1

Name MODIS

|                |        |                 |               |          |               |            |                    |
|----------------|--------|-----------------|---------------|----------|---------------|------------|--------------------|
| Luminaire Flux | 669 lm | Luminaire Power | 11.6 W        | Efficacy | 57.684 lm/W   | Efficiency | 100.00%            |
| Source Flux    | 669 lm | Maximum value   | 380.97 cd/klm | Position | C=0.00 G=2.00 | CG         | Double Symmetrical |

## US ROAD STANDARDS



## Luminaire Classification System (LCS)

| LCS Zone  |              | Lumens   | %Lamp   | %Lum    |
|---|--------------|----------|---------|---------|
| FL  | 0° -- 30°    | 97.5 lm  | 14.6 %  | 14.6 %  |
| FM  | 30° -- 60°   | 177.6 lm | 26.5 %  | 26.5 %  |
| FH  | 60° -- 80°   | 56.6 lm  | 8.5 %   | 8.5 %   |
| FVH   | 80° -- 90°   | 2.8 lm   | 0.4 %   | 0.4 %   |
| BL  | 0° -- 30°    | 97.5 lm  | 14.6 %  | 14.6 %  |
| BM  | 30° -- 60°   | 177.6 lm | 26.5 %  | 26.5 %  |
| BH  | 60° -- 80°   | 56.6 lm  | 8.5 %   | 8.5 %   |
| BVH   | 80° -- 90°   | 2.8 lm   | 0.4 %   | 0.4 %   |
| UL  | 90° -- 100°  | 0.0 lm   | 0.0 %   | 0.0 %   |
| UH  | 100° -- 180° | 0.0 lm   | 0.0 %   | 0.0 %   |
| TOTALS  |              | 669.1 lm | 100.0 % | 100.0 % |
| BUG B0 U0 G0 Type V Very Short Quadrilateral Symmetry |              |          |         |         |