

# LEDS C4<sup>2</sup>

## Luminaire

Code 05-E064-Z5-OU\_3200K\_2  
Name MODIS

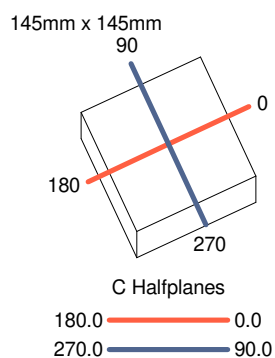
## Measurement

Code 05-E064-Z5-OU\_3200K\_2  
Name MODIS

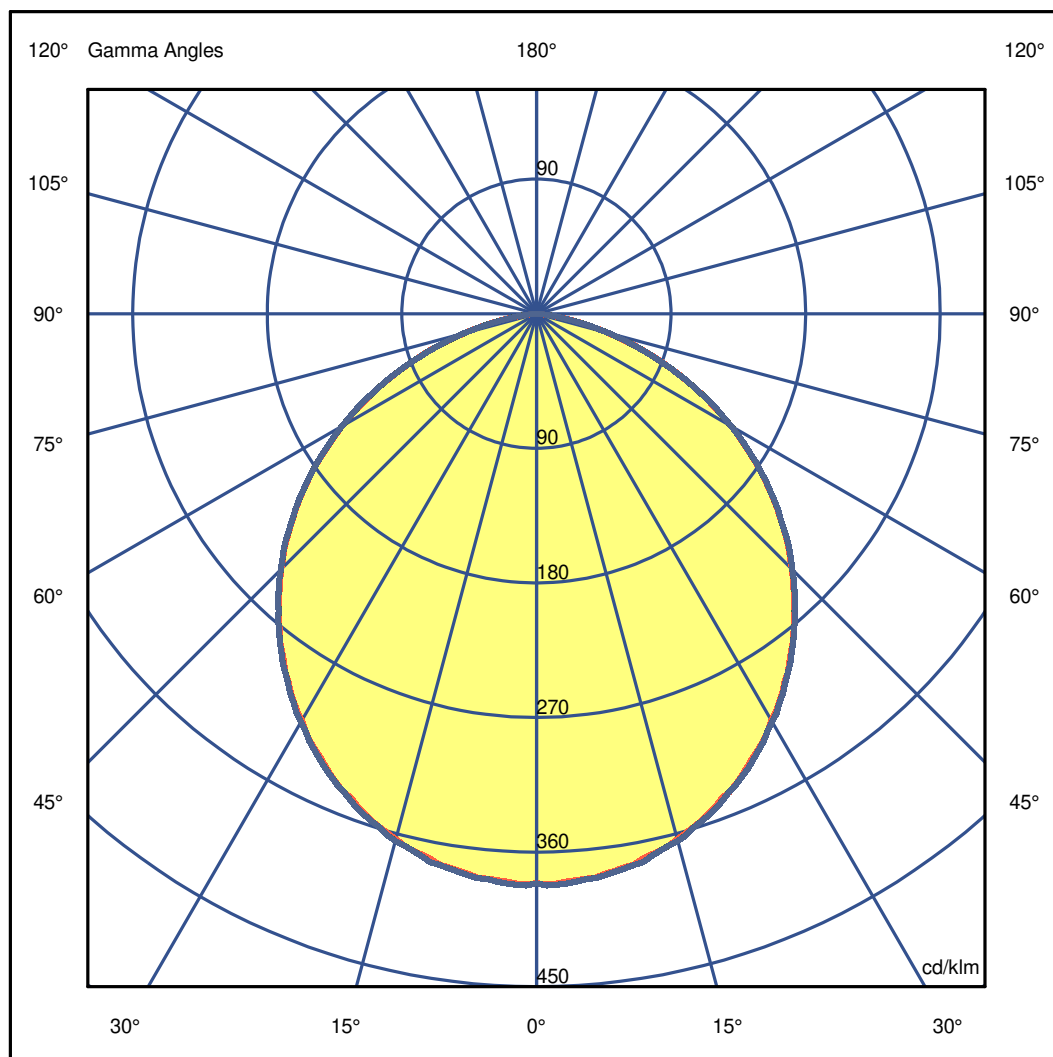
|   |   |                 |   |   |                  |               |                    |
|---|---|-----------------|---|---|------------------|---------------|--------------------|
| Luminaire Flux  | 744 lm                                    | Luminaire Power | 11.6 W  | Efficacy                                  | 64.141 lm/W      | Efficiency    | 100.00%            |
| Source Flux   | 744 lm                                    | Maximum value   | 382.31 cd/klm   | Position                                  | C=90.00 G=1.00   | CG            | Double Symmetrical |
| Rectangular Luminaire<br>Rectangular Luminous Area                                  | Length<br>Length                          | 145 mm<br>85 mm | Width<br>Width  | 145 mm<br>85 mm                           | Height<br>Height | 75 mm<br>0 mm |                    |
| Horizontal Luminous Area<br>Emitting area on Plane 0°<br>Emitting area on Plane 90° | 0.007225 m2<br>0.000000 m2<br>0.000000 m2 |                 | Emitting area on Plane 180°<br>Emitting area on Plane 270°<br>Glare area at 76° | 0.000000 m2<br>0.000000 m2<br>0.001748 m2 |                  |               |                    |
| Coordinate system<br>Date<br>Measurement Distance                                   | CG<br>15-10-2021<br>0.00                  |                 | Symmetry Type<br>Maximum Gamma Angle<br>Measurement Flux                        | Double Symmetrical<br>90<br>744 lm        |                  |               |                    |
| Operator<br>Temperature<br>Humidity<br>Notes  | qualitat                                  |                 | Rated Voltage<br>Rated Current<br>Photocell                                     |   |                  |               |                    |

## Luminaire Sources

| Line            | Code LED                   | Name LED            | Flux [lm]   | Pow. [W] | Q.ty |
|-----------------|----------------------------|---------------------|-------------|----------|------|
|                 |                            |                     | 744.03      | 11.60    | 1    |
| C.I.E.<br>F UTE | 50 82 97 100 100<br>1.00 E | D DIN 5040<br>B NBN | A30<br>BZ 4 |          |      |



ULOR 0.00 %  
DLOR 100.00 %  
RN 0.00 %



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## Measurerm.

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| Luminaire Flux | 744 lm | Luminaire Power | 11.6 W        | Efficacy | 64.141 lm/W    | Efficiency | 100.00%            |
| Source Flux    | 744 lm | Maximum value   | 382.31 cd/klm | Position | C=90.00 G=1.00 | CG         | Double Symmetrical |

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  | 380.72 | 380.72  | 380.72  | 380.72  | 380.72  | 380.72  | 380.72  |
| G 1.0  | 381.43 | 380.24  | 380.75  | 380.78  | 380.90  | 379.85  | 382.31  |
| G 2.0  | 381.12 | 379.74  | 380.98  | 380.82  | 380.93  | 379.85  | 382.00  |
| G 3.0  | 380.22 | 379.30  | 380.66  | 380.23  | 380.37  | 379.17  | 381.58  |
| G 4.0  | 379.61 | 379.06  | 380.01  | 379.31  | 379.53  | 378.82  | 380.58  |
| G 5.0  | 379.28 | 378.40  | 378.70  | 379.24  | 379.45  | 378.25  | 379.48  |
| G 6.0  | 378.98 | 376.75  | 378.19  | 378.44  | 378.39  | 376.73  | 379.42  |
| G 7.0  | 377.20 | 375.80  | 377.48  | 377.05  | 376.45  | 376.45  | 378.29  |
| G 8.0  | 376.08 | 374.97  | 375.84  | 375.69  | 376.25  | 375.21  | 376.70  |
| G 9.0  | 374.63 | 373.79  | 374.89  | 374.78  | 374.99  | 373.98  | 375.57  |
| G 10.0 | 374.10 | 372.36  | 373.34  | 373.08  | 373.21  | 372.03  | 374.19  |
| G 11.0 | 371.26 | 370.07  | 371.15  | 371.50  | 371.09  | 370.44  | 373.47  |
| G 12.0 | 369.55 | 368.75  | 369.57  | 369.30  | 369.76  | 369.15  | 370.63  |
| G 13.0 | 368.36 | 367.16  | 368.12  | 367.71  | 368.03  | 367.12  | 368.34  |
| G 14.0 | 366.39 | 365.14  | 365.87  | 365.82  | 365.75  | 364.74  | 366.43  |
| G 15.0 | 363.67 | 362.22  | 363.48  | 363.51  | 363.38  | 362.51  | 364.94  |
| G 16.0 | 361.40 | 360.12  | 361.03  | 361.03  | 360.94  | 360.54  | 362.75  |
| G 17.0 | 359.02 | 357.50  | 358.11  | 358.41  | 358.63  | 357.57  | 359.10  |
| G 18.0 | 356.47 | 354.94  | 355.97  | 356.11  | 355.84  | 354.64  | 356.82  |
| G 19.0 | 353.38 | 352.11  | 353.14  | 353.07  | 353.35  | 352.45  | 354.34  |
| G 20.0 | 350.30 | 349.12  | 350.17  | 350.04  | 350.36  | 349.38  | 351.63  |
| G 21.0 | 346.65 | 346.76  | 347.15  | 347.33  | 347.07  | 346.32  | 348.12  |
| G 22.0 | 344.76 | 343.52  | 344.36  | 344.39  | 344.05  | 343.20  | 344.51  |
| G 23.0 | 341.48 | 339.24  | 340.65  | 340.64  | 341.06  | 340.26  | 341.75  |
| G 24.0 | 337.83 | 336.53  | 337.49  | 336.93  | 337.09  | 336.84  | 338.39  |
| G 25.0 | 333.92 | 333.08  | 333.75  | 334.01  | 333.84  | 332.65  | 335.02  |
| G 26.0 | 329.88 | 329.37  | 330.04  | 330.34  | 330.34  | 329.54  | 331.23  |
| G 27.0 | 326.66 | 325.61  | 326.11  | 326.00  | 326.36  | 325.82  | 327.38  |
| G 28.0 | 323.20 | 321.48  | 322.55  | 321.90  | 322.50  | 321.46  | 323.70  |
| G 29.0 | 318.93 | 317.36  | 318.36  | 318.74  | 318.59  | 317.55  | 318.82  |
| G 30.0 | 313.98 | 313.88  | 314.27  | 314.10  | 314.42  | 313.68  | 315.07  |
| G 31.0 | 310.57 | 309.71  | 309.97  | 309.95  | 309.78  | 309.69  | 311.57  |
| G 32.0 | 306.10 | 305.15  | 305.59  | 305.80  | 305.95  | 304.75  | 306.67  |
| G 33.0 | 301.79 | 300.86  | 301.56  | 301.62  | 301.52  | 300.89  | 302.62  |
| G 34.0 | 296.56 | 295.94  | 297.04  | 296.91  | 296.68  | 296.18  | 297.31  |
| G 35.0 | 292.84 | 291.75  | 292.20  | 291.99  | 292.33  | 291.45  | 293.01  |
| G 36.0 | 287.51 | 287.08  | 287.64  | 287.35  | 287.67  | 287.06  | 288.89  |
| G 37.0 | 282.76 | 282.08  | 282.59  | 282.95  | 282.68  | 281.87  | 283.43  |
| G 38.0 | 278.59 | 277.06  | 277.92  | 277.82  | 278.16  | 277.01  | 278.81  |
| G 39.0 | 272.92 | 272.10  | 273.26  | 272.76  | 272.83  | 272.52  | 273.57  |
| G 40.0 | 268.10 | 267.44  | 267.87  | 267.54  | 268.12  | 267.28  | 268.71  |
| G 41.0 | 263.05 | 262.30  | 262.20  | 262.76  | 262.46  | 262.15  | 263.05  |
| G 42.0 | 257.53 | 256.71  | 257.54  | 257.68  | 257.13  | 256.80  | 258.10  |
| G 43.0 | 252.13 | 251.28  | 252.06  | 252.36  | 252.69  | 251.49  | 253.03  |
| G 44.0 | 246.72 | 246.58  | 246.75  | 246.70  | 246.77  | 246.58  | 247.82  |
| G 45.0 | 241.49 | 240.75  | 241.39  | 241.02  | 241.03  | 240.46  | 241.77  |
| G 46.0 | 235.72 | 235.26  | 235.66  | 235.94  | 235.92  | 234.95  | 236.41  |
| G 47.0 | 230.65 | 229.64  | 230.35  | 230.52  | 230.26  | 229.86  | 231.09  |
| G 48.0 | 224.80 | 223.92  | 224.52  | 224.71  | 224.60  | 224.08  | 225.48  |
| G 49.0 | 218.80 | 218.22  | 218.61  | 218.32  | 218.63  | 217.99  | 218.87  |
| G 50.0 | 212.66 | 212.13  | 212.52  | 212.74  | 212.78  | 212.14  | 212.89  |
| G 51.0 | 207.15 | 206.23  | 207.18  | 206.94  | 206.69  | 206.19  | 207.55  |
| G 52.0 | 201.04 | 200.10  | 200.65  | 200.66  | 200.65  | 200.22  | 201.51  |
| G 53.0 | 194.90 | 194.32  | 194.48  | 194.51  | 194.87  | 194.16  | 195.20  |
| G 54.0 | 188.56 | 188.04  | 188.55  | 188.55  | 188.51  | 188.00  | 189.04  |
| G 55.0 | 182.61 | 182.13  | 182.13  | 182.24  | 182.28  | 181.98  | 182.68  |
| G 56.0 | 176.18 | 175.25  | 176.10  | 175.97  | 175.80  | 175.26  | 176.45  |
| G 57.0 | 169.08 | 169.13  | 169.36  | 169.35  | 169.48  | 169.13  | 169.80  |
| G 58.0 | 162.93 | 162.68  | 163.20  | 163.12  | 163.00  | 162.56  | 163.41  |
| G 59.0 | 156.68 | 156.17  | 156.44  | 156.46  | 156.35  | 156.18  | 157.09  |
| G 60.0 | 150.50 | 149.63  | 149.94  | 149.77  | 150.14  | 149.59  | 150.53  |
| G 61.0 | 143.48 | 142.86  | 143.11  | 143.28  | 143.05  | 142.79  | 143.35  |
| G 62.0 | 136.66 | 136.30  | 136.76  | 136.60  | 136.59  | 136.22  | 136.91  |
| G 63.0 | 129.78 | 129.51  | 129.93  | 129.68  | 129.78  | 129.32  | 130.28  |
| G 64.0 | 123.26 | 122.90  | 123.07  | 123.15  | 122.93  | 122.74  | 123.29  |
| G 65.0 | 116.56 | 115.89  | 116.36  | 116.22  | 116.34  | 115.99  | 116.44  |
| G 66.0 | 109.37 | 109.12  | 109.49  | 109.39  | 109.42  | 109.13  | 109.61  |
| G 67.0 | 102.91 | 102.27  | 102.54  | 102.72  | 102.47  | 102.21  | 102.83  |
| G 68.0 | 95.93  | 95.68   | 95.73   | 95.81   | 95.72   | 95.42   | 96.03   |
| G 69.0 | 89.40  | 88.91   | 89.24   | 88.97   | 88.95   | 88.91   | 89.03   |
| G 70.0 | 82.15  | 82.04   | 82.19   | 82.09   | 82.08   | 81.85   | 82.36   |
| G 71.0 | 75.79  | 75.49   | 75.64   | 75.57   | 75.48   | 75.10   | 75.53   |
| G 72.0 | 69.20  | 68.93   | 69.03   | 69.03   | 68.82   | 68.67   | 69.08   |

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|                |        |                 |               |          |                |            |                    |
|----------------|--------|-----------------|---------------|----------|----------------|------------|--------------------|
| Luminaire Flux | 744 lm | Luminaire Power | 11.6 W        | Efficacy | 64.141 lm/W    | Efficiency | 100.00%            |
| Source Flux    | 744 lm | Maximum value   | 382.31 cd/klm | Position | C=90.00 G=1.00 | 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 | 62.75  | 62.57   | 62.62   | 62.45   | 62.42   | 62.31   | 62.49   |
| G 74.0 | 56.33  | 56.12   | 56.26   | 56.11   | 56.06   | 55.86   | 56.19   |
| G 75.0 | 50.17  | 50.13   | 50.06   | 50.01   | 49.86   | 49.71   | 49.91   |
| G 76.0 | 44.33  | 44.20   | 44.17   | 44.07   | 43.86   | 43.72   | 43.97   |
| G 77.0 | 38.57  | 38.35   | 38.46   | 38.26   | 38.16   | 38.08   | 38.12   |
| G 78.0 | 33.17  | 33.13   | 33.10   | 32.86   | 32.73   | 32.64   | 32.74   |
| G 79.0 | 28.00  | 27.95   | 27.87   | 27.85   | 27.67   | 27.45   | 27.56   |
| G 80.0 | 23.40  | 23.31   | 23.20   | 23.03   | 22.87   | 22.76   | 22.83   |
| G 81.0 | 18.97  | 18.90   | 18.85   | 18.68   | 18.46   | 18.39   | 18.40   |
| G 82.0 | 14.98  | 15.04   | 14.88   | 14.71   | 14.51   | 14.39   | 14.41   |
| G 83.0 | 11.45  | 11.50   | 11.34   | 11.17   | 11.00   | 10.86   | 10.87   |
| G 84.0 | 8.42   | 8.47    | 8.38    | 8.20    | 7.92    | 7.82    | 7.80    |
| G 85.0 | 6.01   | 6.01    | 5.86    | 5.60    | 5.46    | 5.28    | 5.24    |
| G 86.0 | 3.85   | 3.98    | 3.75    | 3.77    | 3.37    | 3.25    | 3.14    |
| G 87.0 | 2.58   | 2.48    | 2.44    | 2.07    | 1.91    | 1.87    | 1.49    |
| G 88.0 | 1.31   | 1.41    | 1.31    | 1.18    | 0.90    | 0.81    | 0.69    |
| G 89.0 | 0.26   | 0.71    | 0.60    | 0.54    | 0.38    | 0.28    | 0.24    |
| G 90.0 | 0.03   | 0.21    | 0.13    | 0.18    | 0.09    | 0.05    | 0.06    |

# LEDS C4<sup>®</sup>

**Luminaire**

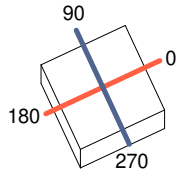
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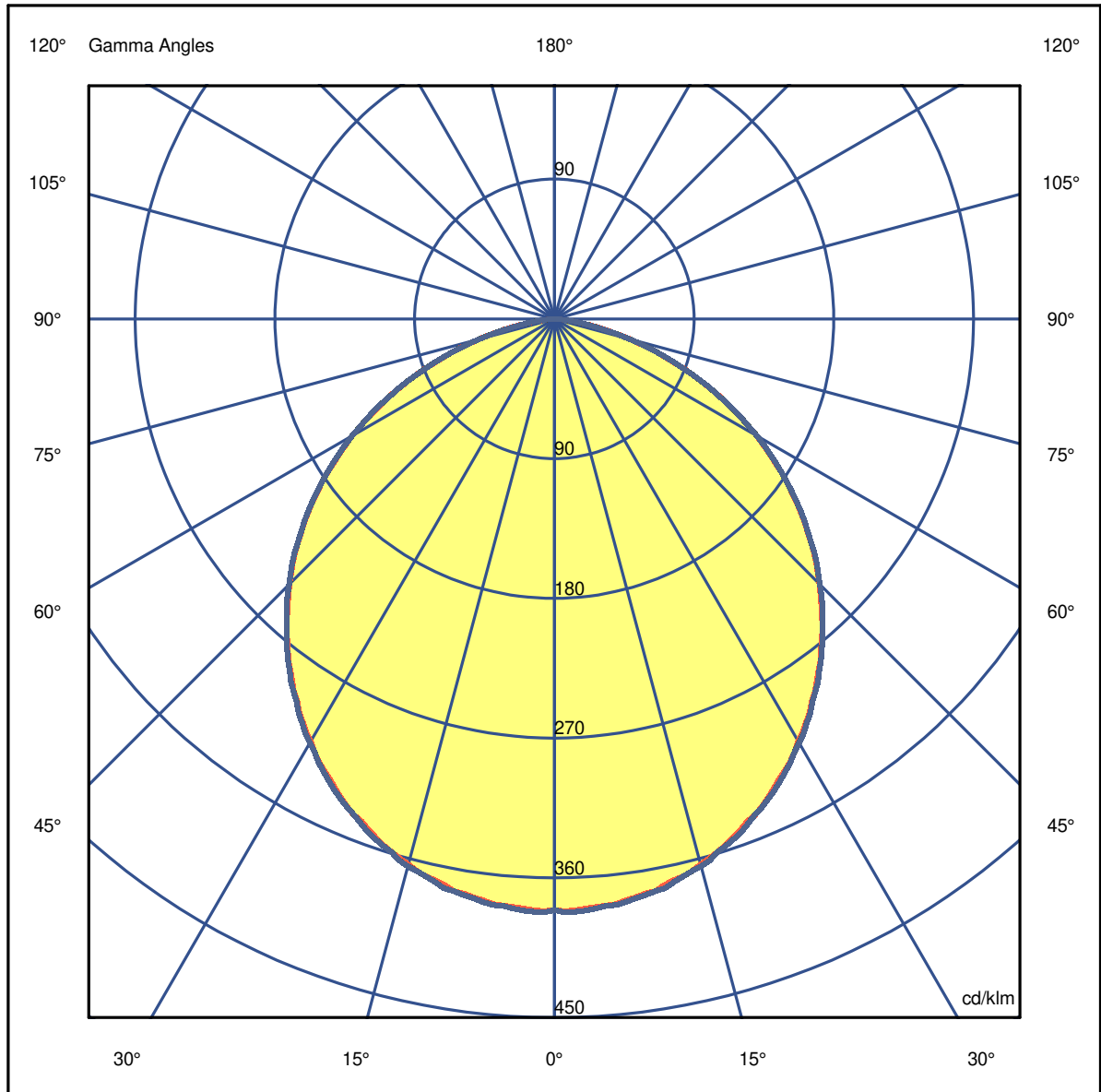
|                |        |                 |               |          |                |            |                    |
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| Source Flux    | 744 lm | Maximum value   | 382.31 cd/klm | Position | C=90.00 G=1.00 | CG         | Double Symmetrical |

145mm x 145mm



C Halfplanes

180.0 ———— 0.0  
 270.0 ———— 90.0



# LEDS C4<sup>2</sup>

## Luminaire

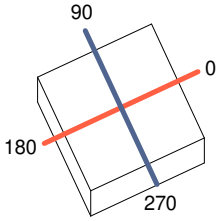
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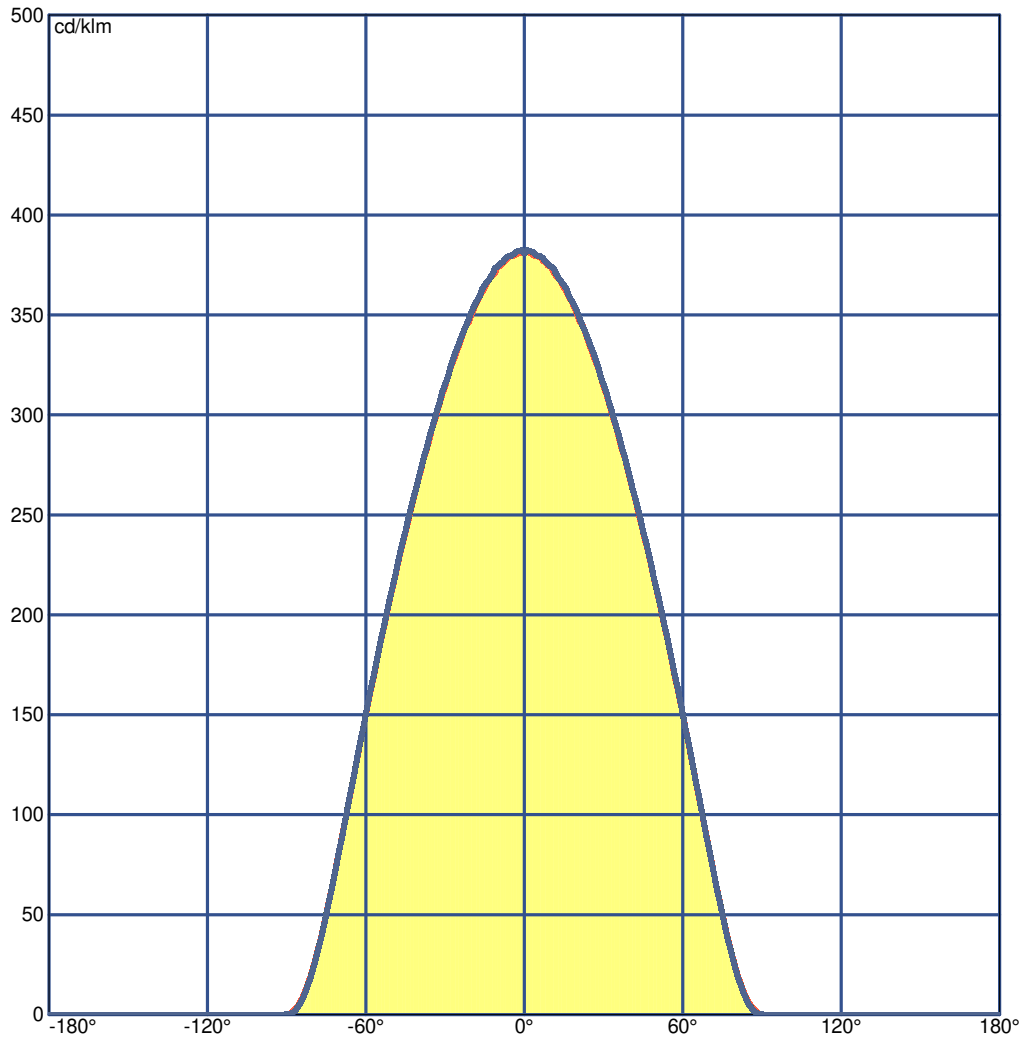
|                |        |                 |               |          |                |            |                    |
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145mm x 145mm



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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       | 24.7         | 26.0 | 25.0 | 26.2 | 26.5 | 24.7           | 26.0 | 25.0 | 26.2 | 26.5 |
| x=2H y=3H       | 26.0         | 27.2 | 26.3 | 27.4 | 27.7 | 26.0           | 27.2 | 26.3 | 27.4 | 27.7 |
| x=2H y=4H       | 26.4         | 27.5 | 26.8 | 27.8 | 28.1 | 26.4           | 27.5 | 26.8 | 27.8 | 28.1 |
| x=2H y=6H       | 26.6         | 27.6 | 27.0 | 27.9 | 28.2 | 26.6           | 27.6 | 27.0 | 27.9 | 28.2 |
| x=2H y=8H       | 26.6         | 27.6 | 27.0 | 27.9 | 28.2 | 26.6           | 27.6 | 27.0 | 27.9 | 28.2 |
| x=2H y=12H      | 26.6         | 27.5 | 27.0 | 27.9 | 28.2 | 26.6           | 27.5 | 27.0 | 27.9 | 28.2 |
| x=4H y=2H       | 25.3         | 26.4 | 25.7 | 26.7 | 27.0 | 25.3           | 26.4 | 25.7 | 26.7 | 27.0 |
| x=4H y=3H       | 26.8         | 27.7 | 27.2 | 28.0 | 28.4 | 26.8           | 27.7 | 27.2 | 28.0 | 28.4 |
| x=4H y=4H       | 27.3         | 28.1 | 27.7 | 28.5 | 28.8 | 27.3           | 28.1 | 27.7 | 28.4 | 28.8 |
| x=4H y=6H       | 27.5         | 28.3 | 28.0 | 28.6 | 29.0 | 27.5           | 28.2 | 27.9 | 28.6 | 29.0 |
| x=4H y=8H       | 27.6         | 28.2 | 28.0 | 28.6 | 29.1 | 27.6           | 28.2 | 28.0 | 28.6 | 29.0 |
| x=4H y=12H      | 27.6         | 28.2 | 28.1 | 28.6 | 29.0 | 27.6           | 28.2 | 28.0 | 28.6 | 29.0 |
| x=8H y=4H       | 27.5         | 28.1 | 27.9 | 28.5 | 28.9 | 27.5           | 28.1 | 27.9 | 28.5 | 28.9 |
| x=8H y=6H       | 27.8         | 28.3 | 28.3 | 28.8 | 29.2 | 27.8           | 28.3 | 28.2 | 28.7 | 29.2 |
| x=8H y=8H       | 27.9         | 28.3 | 28.4 | 28.8 | 29.3 | 27.8           | 28.3 | 28.3 | 28.8 | 29.2 |
| x=8H y=12H      | 27.9         | 28.3 | 28.4 | 28.8 | 29.3 | 27.9           | 28.3 | 28.4 | 28.7 | 29.2 |
| x=12H y=4H      | 27.4         | 28.0 | 27.9 | 28.4 | 28.9 | 27.4           | 28.0 | 27.9 | 28.4 | 28.9 |
| x=12H y=6H      | 27.8         | 28.3 | 28.3 | 28.7 | 29.2 | 27.8           | 28.3 | 28.3 | 28.7 | 29.2 |
| x=12H y=8H      | 27.9         | 28.3 | 28.4 | 28.8 | 29.2 | 27.9           | 28.3 | 28.4 | 28.7 | 29.2 |

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| Luminaire Flux | 744 lm | Luminaire Power | 11.6 W        | Efficacy | 64.141 lm/W    | Efficiency | 100.00%            |
| Source Flux    | 744 lm | Maximum value   | 382.31 cd/klm | Position | C=90.00 G=1.00 | CG         | Double Symmetrical |

Total Flux=744.03 Luminaire Flux=744.03

|     |      |      |      |      |      |      |      |      |      |      |       |       |
|-----|------|------|------|------|------|------|------|------|------|------|-------|-------|
| 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 | 0.71 | 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

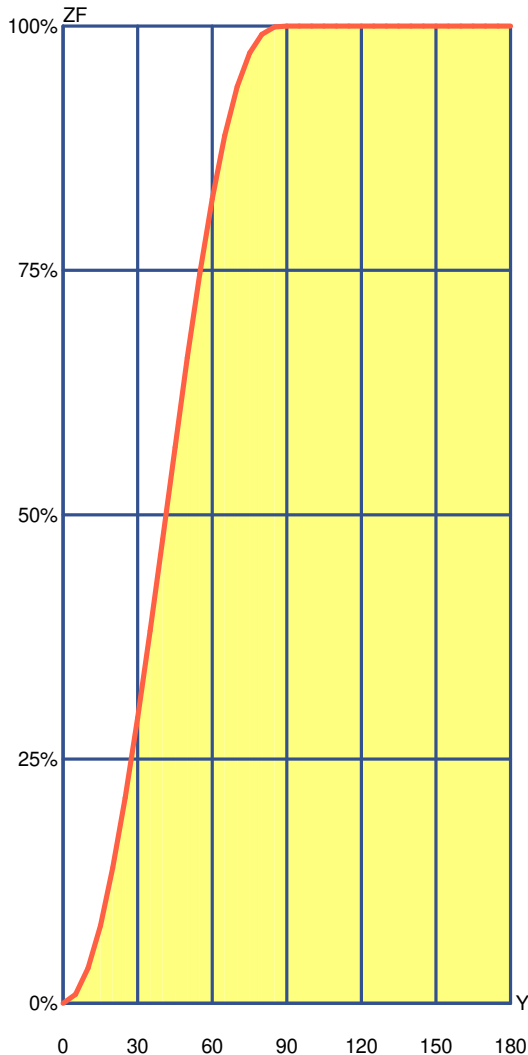
|       |    |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |
|-------|----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|
| Y°    | 10 | 20  | 30  | 40  | 50  | 60  | 70  | 80  | 90   | 100  | 110  | 120  | 130  | 140  | 150  | 160  | 170  | 180  |
| ZF(Y) | 36 | 138 | 292 | 475 | 661 | 823 | 938 | 992 | 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°      | 9.08       | 9.08    | 0.91%    | 0.91%   |
| 10°     | 26.89      | 35.98   | 2.69%    | 3.60%   |
| 15°     | 43.67      | 79.65   | 4.37%    | 7.96%   |
| 20°     | 58.78      | 138.43  | 5.88%    | 13.84%  |
| 25°     | 71.71      | 210.13  | 7.17%    | 21.01%  |
| 30°     | 81.97      | 292.10  | 8.20%    | 29.21%  |
| 35°     | 89.27      | 381.37  | 8.93%    | 38.14%  |
| 40°     | 93.39      | 474.77  | 9.34%    | 47.48%  |
| 45°     | 94.21      | 568.98  | 9.42%    | 56.90%  |
| 50°     | 91.71      | 660.69  | 9.17%    | 66.07%  |
| 55°     | 85.83      | 746.52  | 8.58%    | 74.65%  |
| 60°     | 76.73      | 823.25  | 7.67%    | 82.32%  |
| 65°     | 64.65      | 887.89  | 6.46%    | 88.79%  |
| 70°     | 50.16      | 938.05  | 5.02%    | 93.81%  |
| 75°     | 34.37      | 972.42  | 3.44%    | 97.24%  |
| 80°     | 19.19      | 991.61  | 1.92%    | 99.16%  |
| 85°     | 7.28       | 998.89  | 0.73%    | 99.89%  |
| 90°     | 1.11       | 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\_3200K\_2  
Name MODIS

**Measurement**

Code 05-E064-Z5-OU\_3200K\_2  
Name MODIS

|                |        |                 |               |          |                |            |                    |
|----------------|--------|-----------------|---------------|----------|----------------|------------|--------------------|
| Luminaire Flux | 744 lm | Luminaire Power | 11.6 W        | Efficacy | 64.141 lm/W    | Efficiency | 100.00%            |
| Source Flux    | 744 lm | Maximum value   | 382.31 cd/klm | Position | C=90.00 G=1.00 | 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 | 97 | 86 | 55 | 44 | 23 | 17 | 80 | 46 | 42 | 20 | 16 | 39 | 17 | 15 | 0 | 1.00 | 271 | 252 | 179 | 167 | 239 | 160 | 162 | 145 | 104 | 93 | 62 | 51 | 29 | 23 | 87 | 53 | 48 | 25 | 22 | 46 | 22 | 20 | 0 | 1.25 | 290 | 273 | 175 | 166 | 260 | 160 | 185 | 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 | 154 | 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 | 105 | 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 | 79 | 77 | 60 | 56 | 74 | 56 | 53 | 0 | 4.00 | 353 | 345 | 137 | 135 | 330 | 131 | 291 | 281 | 110 | 107 | 90 | 85 | 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 | 83 | 71 | 67 | 0 | 10.00 | 377 | 373 | 121 | 120 | 358 | 118 | 340 | 334 | 109 | 107 | 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 | 441 | 387 | 348 | 340 | 312 | 307 | 262 | 258 | 225 | 224 | 304 | 258 | 257 | 224 | 223 | 256 | 223 | 203 | 0.80 | 514 | 502 | 433 | 425 | 493 | 420 | 401 | 392 | 350 | 344 | 300 | 295 | 263 | 260 | 340 | 295 | 293 | 261 | 260 | 292 | 260 | 259 | 235 | 1.00 | 549 | 537 | 449 | 442 | 525 | 436 | 438 | 428 | 373 | 367 | 325 | 320 | 289 | 285 | 361 | 319 | 317 | 286 | 284 | 315 | 284 | 283 | 256 | 1.25 | 578 | 566 | 460 | 454 | 552 | 447 | 471 | 461 | 390 | 385 | 346 | 341 | 311 | 308 | 378 | 340 | 337 | 308 | 306 | 334 | 306 | 304 | 273 | 1.50 | 599 | 588 | 465 | 460 | 572 | 452 | 496 | 486 | 402 | 397 | 361 | 356 | 328 | 324 | 389 | 354 | 352 | 324 | 322 | 348 | 321 | 319 | 286 | 2.00 | 616 | 606 | 459 | 455 | 588 | 448 | 523 | 513 | 407 | 403 | 373 | 368 | 344 | 340 | 394 | 365 | 362 | 339 | 337 | 358 | 335 | 331 | 294 | 2.50 | 625 | 617 | 452 | 449 | 596 | 442 | 540 | 530 | 408 | 404 | 378 | 374 | 353 | 348 | 395 | 369 | 367 | 347 | 344 | 362 | 342 | 337 | 298 | 3.00 | 629 | 621 | 444 | 442 | 599 | 435 | 550 | 540 | 405 | 402 | 380 | 375 | 357 | 353 | 393 | 370 | 369 | 351 | 348 | 362 | 345 | 340 | 298 | 4.00 | 639 | 633 | 439 | 437 | 609 | 430 | 568 | 560 | 407 | 404 | 386 | 382 | 367 | 363 | 394 | 376 | 375 | 360 | 357 | 367 | 353 | 347 | 302 | 5.00 | 647 | 641 | 437 | 435 | 616 | 428 | 581 | 574 | 409 | 407 | 391 | 388 | 375 | 371 | 396 | 381 | 380 | 367 | 365 | 372 | 359 | 352 | 306 | 10.00 | 660 | 657 | 428 | 428 | 629 | 421 | 609 | 604 | 410 | 409 | 400 | 398 | 391 | 388 | 398 | 389 | 388 | 381 | 379 | 378 | 371 | 362 | 312 | 20.00 | 655 | 653 | 411 | 410 | 623 | 404 | 612 | 609 | 398 | 398 | 393 | 392 | 388 | 386 | 386 | 381 | 381 | 377 | 376 | 370 | 366 | 356 | 303 |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

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 | 596 | 568 | 558 | 588 | 553 | 474 | 466 | 456 | 451 | 391 | 387 | 344 | 343 | 447 | 387 | 386 | 343 | 342 | 384 | 342 | 341 | 325 | 0.80 | 718 | 704 | 661 | 652 | 692 | 644 | 578 | 568 | 552 | 545 | 486 | 480 | 436 | 433 | 539 | 479 | 477 | 434 | 432 | 475 | 432 | 431 | 413 | 1.00 | 803 | 789 | 732 | 723 | 773 | 714 | 664 | 652 | 628 | 621 | 564 | 557 | 514 | 510 | 613 | 556 | 553 | 511 | 509 | 550 | 508 | 506 | 489 | 1.25 | 883 | 869 | 796 | 788 | 849 | 777 | 747 | 734 | 699 | 692 | 639 | 632 | 591 | 586 | 682 | 629 | 627 | 586 | 584 | 622 | 583 | 580 | 563 | 1.50 | 942 | 928 | 841 | 834 | 906 | 823 | 810 | 796 | 752 | 745 | 696 | 688 | 650 | 644 | 734 | 685 | 682 | 644 | 641 | 676 | 639 | 635 | 619 | 2.00 | 1000 | 1000 | 905 | 899 | 987 | 887 | 905 | 891 | 830 | 823 | 782 | 774 | 741 | 735 | 810 | 768 | 765 | 733 | 729 | 757 | 726 | 720 | 706 | 2.50 | 1000 | 1000 | 943 | 939 | 1000 | 927 | 968 | 954 | 878 | 873 | 837 | 830 | 801 | 794 | 858 | 822 | 819 | 791 | 787 | 810 | 783 | 775 | 762 | 3.00 | 1000 | 1000 | 969 | 966 | 1000 | 953 | 1000 | 1000 | 912 | 907 | 876 | 869 | 844 | 837 | 891 | 860 | 857 | 833 | 829 | 847 | 823 | 814 | 801 | 4.00 | 1000 | 1000 | 1000 | 997 | 1000 | 985 | 1000 | 1000 | 952 | 948 | 923 | 917 | 897 | 890 | 931 | 906 | 904 | 884 | 880 | 891 | 872 | 861 | 849 | 5.00 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 976 | 973 | 952 | 947 | 930 | 923 | 954 | 934 | 932 | 915 | 911 | 918 | 901 | 889 | 878 | 10.00 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 999 | 995 | 1000 | 992 | 991 | 981 | 979 | 973 | 20.00 | 1000 | 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>®</sup>

## Luminaire

Code 05-E064-Z5-OU\_3200K\_2  
Name MODIS

## Measurem.

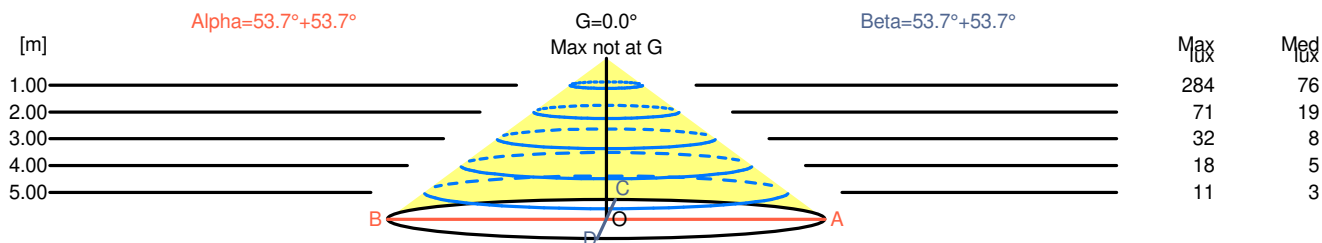
Code 05-E064-Z5-OU\_3200K\_2  
Name MODIS

|                |        |                 |               |          |                |            |                    |
|----------------|--------|-----------------|---------------|----------|----------------|------------|--------------------|
| Luminaire Flux | 744 lm | Luminaire Power | 11.6 W        | Efficacy | 64.141 lm/W    | Efficiency | 100.00%            |
| Source Flux    | 744 lm | Maximum value   | 382.31 cd/klm | Position | C=90.00 G=1.00 | 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 | 2.72 | 4.08 | 5.44 | 6.80 | OC   | 1.36 | 2.73 | 4.09 | 5.45 | 6.81 |
| OB   | 1.36 | 2.72 | 4.08 | 5.44 | 6.80 | OD   | 1.36 | 2.73 | 4.09 | 5.45 | 6.81 |

|    | Luminous Intensities [ cd/klm ] |        |        |        |        |        |        |       |       |      |
|----|---------------------------------|--------|--------|--------|--------|--------|--------|-------|-------|------|
|    | 0                               | 5      | 15     | 25     | 35     | 45     | 55     | 65    | 75    | 85   |
| OA | 283.27                          | 282.20 | 270.58 | 248.45 | 217.89 | 179.68 | 135.87 | 86.72 | 37.33 | 4.47 |
| OB | 283.27                          | 282.20 | 270.58 | 248.45 | 217.89 | 179.68 | 135.87 | 86.72 | 37.33 | 4.47 |
| OC | 283.27                          | 282.35 | 271.53 | 249.27 | 218.01 | 179.88 | 135.92 | 86.63 | 37.13 | 3.90 |
| OD | 283.27                          | 282.35 | 271.53 | 249.27 | 218.01 | 179.88 | 135.92 | 86.63 | 37.13 | 3.90 |



| H[m] | D[m]  | Max lux | Med lux | Alpha=53.7°+53.7° | G=0.0<br>Max not at G |
|------|-------|---------|---------|-------------------|-----------------------|
| 1.00 | 2.72  | 284     | 76      |                   |                       |
| 2.00 | 5.44  | 71      | 19      |                   |                       |
| 3.00 | 8.16  | 32      | 8       |                   |                       |
| 4.00 | 10.87 | 18      | 5       |                   |                       |
| 5.00 | 13.59 | 11      | 3       |                   |                       |

| H[m] | D[m]  | Max lux | Med lux | Beta=53.7°+53.7° | G=0.0<br>Max not at G |
|------|-------|---------|---------|------------------|-----------------------|
| 1.00 | 2.73  | 284     | 76      |                  |                       |
| 2.00 | 5.45  | 71      | 19      |                  |                       |
| 3.00 | 8.18  | 32      | 8       |                  |                       |
| 4.00 | 10.90 | 18      | 5       |                  |                       |
| 5.00 | 13.63 | 11      | 3       |                  |                       |

# LEDS C4<sup>+</sup>

**Luminaire**

Code 05-E064-Z5-OU\_3200K\_2

Name MODIS

**Measur.**

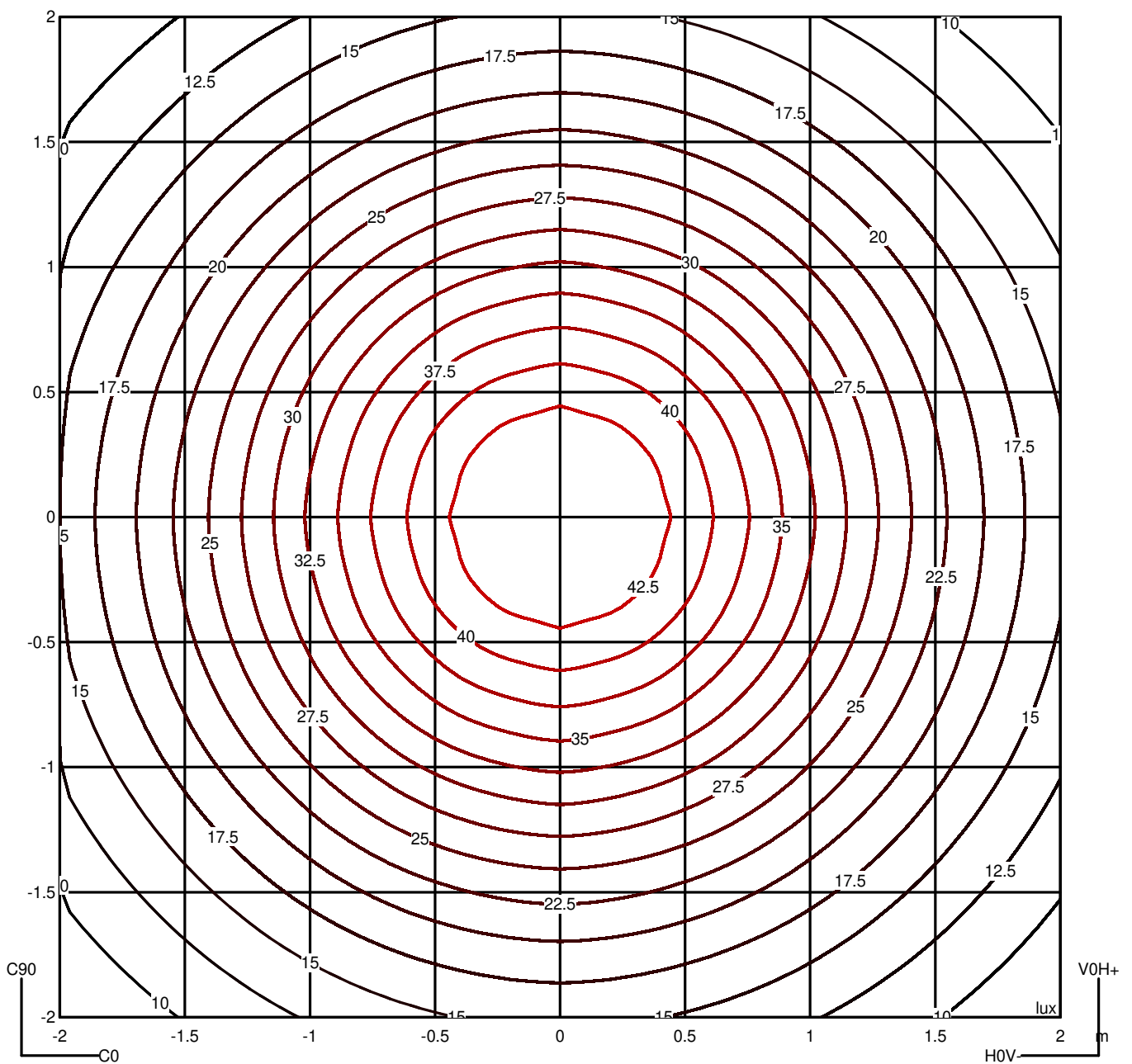
Code 05-E064-Z5-OU\_3200K\_2

Name MODIS

|                |        |                 |               |          |                |            |                    |
|----------------|--------|-----------------|---------------|----------|----------------|------------|--------------------|
| Luminaire Flux | 744 lm | Luminaire Power | 11.6 W        | Efficacy | 64.141 lm/W    | Efficiency | 100.00%            |
| Source Flux    | 744 lm | Maximum value   | 382.31 cd/klm | Position | C=90.00 G=1.00 | CG         | Double Symmetrical |

Isolux (Floor)

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



# LEDS C4<sup>2</sup>

**Luminaire**

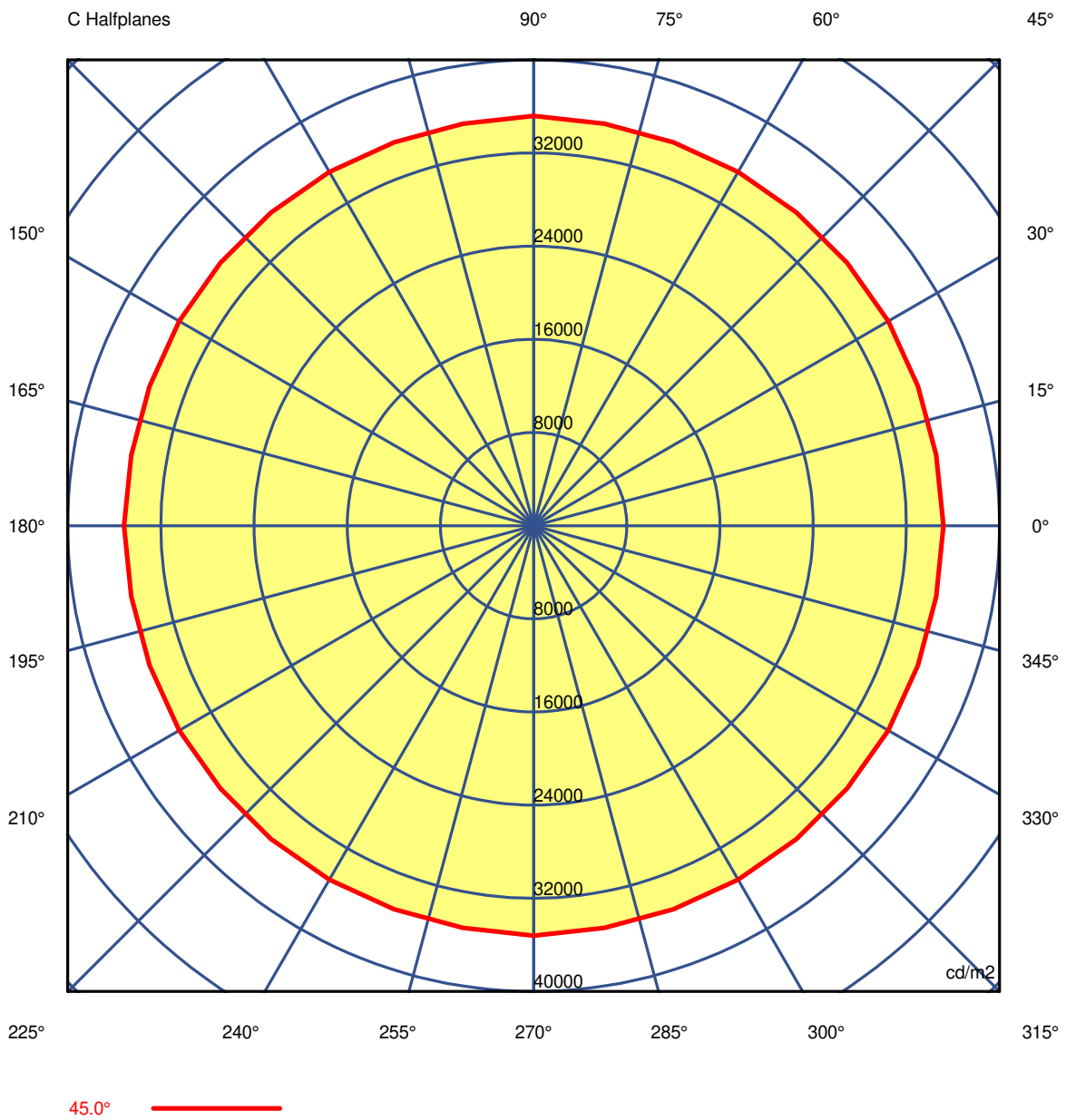
Code 05-E064-Z5-OU\_3200K\_2  
 Name MODIS

**Measurem.**

Code 05-E064-Z5-OU\_3200K\_2  
 Name MODIS

|                |        |                 |               |          |                |            |                    |
|----------------|--------|-----------------|---------------|----------|----------------|------------|--------------------|
| Luminaire Flux | 744 lm | Luminaire Power | 11.6 W        | Efficacy | 64.141 lm/W    | Efficiency | 100.00%            |
| Source Flux    | 744 lm | Maximum value   | 382.31 cd/klm | Position | C=90.00 G=1.00 | CG         | Double Symmetrical |

Luminance



# LEDS C4<sup>+</sup>

## Luminaire

Code 05-E064-Z5-OU\_3200K\_2

Name MODIS

## Measurement

Code 05-E064-Z5-OU\_3200K\_2

Name MODIS

| Luminaire Flux            | 744 lm   | Luminaire Power | 11.6 W        | Efficacy | 64.141 lm/W    | Efficiency | 100.00%            |          |          |          |          |          |          |
|---------------------------|----------|-----------------|---------------|----------|----------------|------------|--------------------|----------|----------|----------|----------|----------|----------|
| Source Flux               | 744 lm   | Maximum value   | 382.31 cd/klm | Position | C=90.00 G=1.00 | 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                     | 39206.76 | 39206.76        | 39206.76      | 39206.76 | 39206.76       | 39206.76   | 39206.76           | 39206.76 | 39206.76 | 39206.76 | 39206.76 | 39206.76 | 39206.76 |
| G 5.0                     | 39207.74 | 39135.76        | 39116.42      | 39147.23 | 39183.34       | 39225.66   | 39225.41           | 39130.43 | 39114.33 | 39228.39 | 39114.33 | 39130.43 | 39225.41 |
| G 10.0                    | 39119.54 | 38965.67        | 38958.42      | 39039.71 | 39021.53       | 39016.83   | 39025.60           | 38926.04 | 38939.09 | 39128.08 | 38939.09 | 38926.04 | 39025.60 |
| G 15.0                    | 38771.71 | 38636.82        | 38648.08      | 38751.72 | 38753.66       | 38756.44   | 38741.12           | 38656.92 | 38697.34 | 38907.72 | 38697.34 | 38656.92 | 38741.12 |
| G 20.0                    | 38389.53 | 38274.26        | 38287.90      | 38374.27 | 38364.86       | 38372.01   | 38395.72           | 38306.45 | 38330.96 | 38535.22 | 38330.96 | 38306.45 | 38395.72 |
| G 25.0                    | 37942.19 | 37859.94        | 37861.32      | 37922.66 | 37946.30       | 37959.58   | 37932.51           | 37817.47 | 37844.46 | 38067.18 | 37844.46 | 37817.47 | 37932.51 |
| G 30.0                    | 37335.08 | 37319.01        | 37340.27      | 37370.57 | 37352.67       | 37366.88   | 37388.03           | 37318.65 | 37326.44 | 37464.85 | 37326.44 | 37318.65 | 37388.03 |
| G 35.0                    | 36815.03 | 36701.07        | 36688.14      | 36734.01 | 36713.25       | 36726.71   | 36750.80           | 36663.59 | 36669.82 | 36835.30 | 36669.82 | 36663.59 | 36750.80 |
| G 40.0                    | 36040.67 | 35962.55        | 35968.48      | 36009.57 | 35971.42       | 35993.25   | 36044.16           | 35958.13 | 35957.85 | 36123.11 | 35957.85 | 35958.13 | 36044.16 |
| G 45.0                    | 35169.87 | 35073.71        | 35087.83      | 35155.19 | 35118.80       | 35100.69   | 35102.48           | 35047.45 | 35053.13 | 35209.64 | 35053.13 | 35047.45 | 35102.48 |
| G 50.0                    | 34069.49 | 33998.19        | 33996.62      | 34047.51 | 34073.11       | 34094.94   | 34089.14           | 34009.98 | 34002.01 | 34106.37 | 34002.01 | 34009.98 | 34089.14 |
| G 55.0                    | 32785.86 | 32720.21        | 32692.40      | 32700.39 | 32711.67       | 32728.18   | 32725.82           | 32679.39 | 32694.90 | 32798.52 | 32694.90 | 32679.39 | 32725.82 |
| G 60.0                    | 30996.04 | 30849.36        | 30829.35      | 30882.29 | 30851.65       | 30873.11   | 30922.23           | 30837.34 | 30837.93 | 31002.16 | 30837.93 | 30837.34 | 30922.23 |
| G 65.0                    | 28401.23 | 28261.47        | 28266.75      | 28353.78 | 28333.29       | 28327.88   | 28349.80           | 28285.80 | 28276.26 | 28372.21 | 28276.26 | 28285.80 | 28349.80 |
| G 70.0                    | 24733.64 | 24702.00        | 24716.23      | 24747.69 | 24727.73       | 24715.50   | 24712.65           | 24654.24 | 24670.96 | 24796.93 | 24670.96 | 24654.24 | 24712.65 |
| G 75.0                    | 19960.49 | 19954.31        | 19937.79      | 19917.64 | 19907.75       | 19884.60   | 19837.58           | 19788.19 | 19793.80 | 19858.33 | 19793.80 | 19788.19 | 19837.58 |
| G 80.0                    | 13874.17 | 13842.81        | 13805.84      | 13757.04 | 13693.19       | 13625.52   | 13562.29           | 13511.32 | 13503.38 | 13536.44 | 13503.38 | 13511.32 | 13562.29 |
| G 85.0                    | 7106.27  | 7120.03         | 7069.76       | 6924.57  | 6711.86        | 6554.81    | 6451.77            | 6302.83  | 6203.66  | 6186.81  | 6203.66  | 6302.83  | 6451.77  |
| 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\_3200K\_2  
Name MODIS

## Measurement

Code 05-E064-Z5-OU\_3200K\_2  
Name MODIS

|                |        |                 |               |          |                |            |                    |
|----------------|--------|-----------------|---------------|----------|----------------|------------|--------------------|
| Luminaire Flux | 744 lm | Luminaire Power | 11.6 W        | Efficacy | 64.141 lm/W    | Efficiency | 100.00%            |
| Source Flux    | 744 lm | Maximum value   | 382.31 cd/klm | Position | C=90.00 G=1.00 | 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  | 39206.76 | 39206.76 | 39206.76 | 39206.76 | 39206.76 | 39206.76 | 39206.76 | 39206.76 | 39206.76 | 39206.76 | 39206.76 | 39206.76 | 39206.76 |
| G 5.0  | 39225.66 | 39183.34 | 39147.23 | 39116.42 | 39135.76 | 39207.74 | 39135.76 | 39116.42 | 39147.23 | 39183.34 | 39225.66 | 39225.41 | 39130.43 |
| G 10.0 | 39016.83 | 39021.53 | 39039.71 | 38958.42 | 38965.67 | 39119.54 | 38965.67 | 38958.42 | 39039.71 | 39021.53 | 39016.83 | 39025.60 | 38926.04 |
| G 15.0 | 38756.44 | 38753.66 | 38751.72 | 38648.08 | 38636.82 | 38771.71 | 38636.82 | 38648.08 | 38751.72 | 38753.66 | 38756.44 | 38741.12 | 38656.92 |
| G 20.0 | 38372.01 | 38364.86 | 38374.27 | 38287.90 | 38274.26 | 38389.53 | 38274.26 | 38287.90 | 38374.27 | 38364.86 | 38372.01 | 38395.72 | 38306.45 |
| G 25.0 | 37959.58 | 37946.30 | 37922.66 | 37861.32 | 37859.94 | 37942.19 | 37859.94 | 37861.32 | 37922.66 | 37946.30 | 37959.58 | 37932.51 | 37817.47 |
| G 30.0 | 37366.88 | 37352.67 | 37370.57 | 37340.27 | 37319.01 | 37335.08 | 37319.01 | 37340.27 | 37370.57 | 37352.67 | 37366.88 | 37388.03 | 37318.65 |
| G 35.0 | 36726.71 | 36713.25 | 36734.01 | 36688.14 | 36701.07 | 36815.03 | 36701.07 | 36688.14 | 36734.01 | 36713.25 | 36726.71 | 36750.80 | 36663.59 |
| G 40.0 | 35993.25 | 35971.42 | 36009.57 | 35968.48 | 35962.55 | 36040.67 | 35962.55 | 35968.48 | 36009.57 | 35971.42 | 35993.25 | 36044.16 | 35958.13 |
| G 45.0 | 35100.69 | 35118.80 | 35155.19 | 35087.83 | 35073.71 | 35169.87 | 35073.71 | 35087.83 | 35155.19 | 35118.80 | 35100.69 | 35102.48 | 35047.45 |
| G 50.0 | 34094.94 | 34073.11 | 34047.51 | 33996.62 | 33998.19 | 34069.49 | 33998.19 | 33996.62 | 34047.51 | 34073.11 | 34094.94 | 34089.14 | 34009.98 |
| G 55.0 | 32728.18 | 32711.67 | 32700.39 | 32692.40 | 32720.21 | 32785.86 | 32720.21 | 32692.40 | 32700.39 | 32711.67 | 32728.18 | 32725.82 | 32679.39 |
| G 60.0 | 30873.11 | 30851.65 | 30882.29 | 30829.35 | 30849.36 | 30996.04 | 30849.36 | 30829.35 | 30882.29 | 30851.65 | 30873.11 | 30922.23 | 30837.34 |
| G 65.0 | 28327.88 | 28333.29 | 28353.78 | 28266.75 | 28261.47 | 28401.23 | 28261.47 | 28266.75 | 28353.78 | 28333.29 | 28327.88 | 28349.80 | 28285.80 |
| G 70.0 | 24715.50 | 24727.73 | 24747.69 | 24716.23 | 24702.00 | 24733.64 | 24702.00 | 24716.23 | 24747.69 | 24727.73 | 24715.50 | 24712.65 | 24654.24 |
| G 75.0 | 19884.60 | 19907.75 | 19917.64 | 19937.79 | 19954.31 | 19960.49 | 19954.31 | 19937.79 | 19917.64 | 19907.75 | 19884.60 | 19837.58 | 19788.19 |
| G 80.0 | 13625.52 | 13693.19 | 13757.04 | 13805.84 | 13842.81 | 13874.17 | 13842.81 | 13805.84 | 13757.04 | 13693.19 | 13625.52 | 13562.29 | 13511.32 |
| G 85.0 | 6554.81  | 6711.86  | 6924.57  | 7069.76  | 7120.03  | 7106.27  | 7120.03  | 7069.76  | 6924.57  | 6711.86  | 6554.81  | 6451.77  | 6302.83  |
| 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\_3200K\_2  
Name MODIS

## Measurment.

Code 05-E064-Z5-OU\_3200K\_2  
Name MODIS

|                |        |                 |               |          |                |            |                    |
|----------------|--------|-----------------|---------------|----------|----------------|------------|--------------------|
| Luminaire Flux | 744 lm | Luminaire Power | 11.6 W        | Efficacy | 64.141 lm/W    | Efficiency | 100.00%            |
| Source Flux    | 744 lm | Maximum value   | 382.31 cd/klm | Position | C=90.00 G=1.00 | 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  | 39206.76 | 39206.76 | 39206.76 | 39206.76 | 39206.76 | 39206.76 | 39206.76 | 39206.76 | 39206.76 | 39206.76 |
| G 5.0  | 39114.33 | 39228.39 | 39114.33 | 39130.43 | 39225.41 | 39225.66 | 39183.34 | 39147.23 | 39116.42 | 39135.76 |
| G 10.0 | 38939.09 | 39128.08 | 38939.09 | 38926.04 | 39025.60 | 39016.83 | 39021.53 | 39039.71 | 38958.42 | 38965.67 |
| G 15.0 | 38697.34 | 38907.72 | 38697.34 | 38656.92 | 38741.12 | 38756.44 | 38753.66 | 38751.72 | 38648.08 | 38636.82 |
| G 20.0 | 38330.96 | 38535.22 | 38330.96 | 38306.45 | 38395.72 | 38372.01 | 38364.86 | 38374.27 | 38287.90 | 38274.26 |
| G 25.0 | 37844.46 | 38067.18 | 37844.46 | 37817.47 | 37932.51 | 37959.58 | 37946.30 | 37922.66 | 37861.32 | 37859.94 |
| G 30.0 | 37326.44 | 37464.85 | 37326.44 | 37318.65 | 37388.03 | 37366.88 | 37352.67 | 37370.57 | 37340.27 | 37319.01 |
| G 35.0 | 36669.82 | 36835.30 | 36669.82 | 36663.59 | 36750.80 | 36726.71 | 36713.25 | 36734.01 | 36688.14 | 36701.07 |
| G 40.0 | 35957.85 | 36123.11 | 35957.85 | 35958.13 | 36044.16 | 35993.25 | 35971.42 | 36009.57 | 35968.48 | 35962.55 |
| G 45.0 | 35053.13 | 35209.64 | 35053.13 | 35047.45 | 35102.48 | 35100.69 | 35118.80 | 35155.19 | 35087.83 | 35073.71 |
| G 50.0 | 34002.01 | 34106.37 | 34002.01 | 34009.98 | 34089.14 | 34094.94 | 34073.11 | 34047.51 | 33996.62 | 33998.19 |
| G 55.0 | 32694.90 | 32798.52 | 32694.90 | 32679.39 | 32725.82 | 32728.18 | 32711.67 | 32700.39 | 32692.40 | 32720.21 |
| G 60.0 | 30837.93 | 31002.16 | 30837.93 | 30837.34 | 30922.23 | 30873.11 | 30851.65 | 30882.29 | 30829.35 | 30849.36 |
| G 65.0 | 28276.26 | 28372.21 | 28276.26 | 28285.80 | 28349.80 | 28327.88 | 28333.29 | 28353.78 | 28266.75 | 28261.47 |
| G 70.0 | 24670.96 | 24796.93 | 24670.96 | 24654.24 | 24712.65 | 24715.50 | 24727.73 | 24747.69 | 24716.23 | 24702.00 |
| G 75.0 | 19793.80 | 19858.33 | 19793.80 | 19788.19 | 19837.58 | 19884.60 | 19907.75 | 19917.64 | 19937.79 | 19954.31 |
| G 80.0 | 13503.38 | 13536.44 | 13503.38 | 13511.32 | 13562.29 | 13625.52 | 13693.19 | 13757.04 | 13805.84 | 13842.81 |
| G 85.0 | 6203.66  | 6186.81  | 6203.66  | 6302.83  | 6451.77  | 6554.81  | 6711.86  | 6924.57  | 7069.76  | 7120.03  |
| 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>®</sup>

## Luminaire

Code 05-E064-Z5-OU\_3200K\_2

Name MODIS

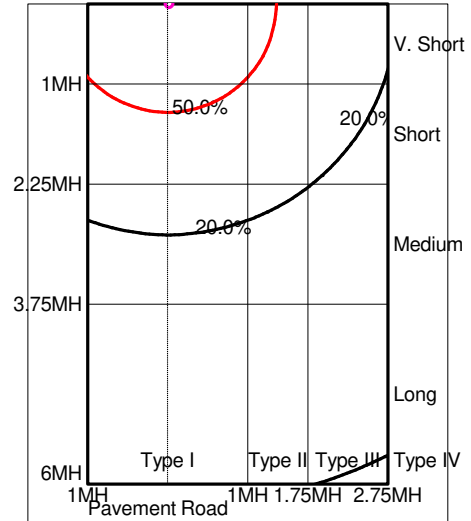
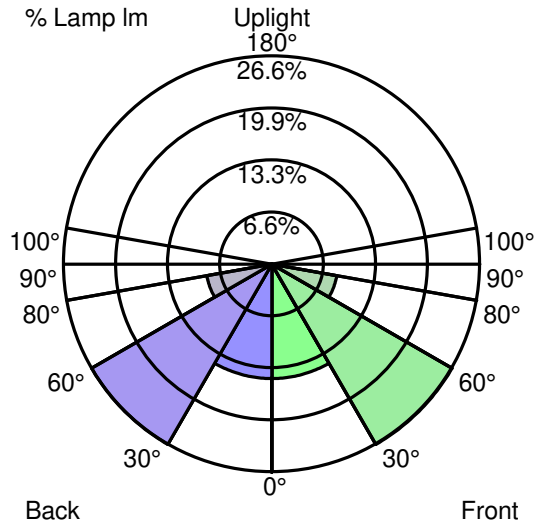
## Measurement

Code 05-E064-Z5-OU\_3200K\_2

Name MODIS

|                |        |                 |               |          |                |            |                    |
|----------------|--------|-----------------|---------------|----------|----------------|------------|--------------------|
| Luminaire Flux | 744 lm | Luminaire Power | 11.6 W        | Efficacy | 64.141 lm/W    | Efficiency | 100.00%            |
| Source Flux    | 744 lm | Maximum value   | 382.31 cd/klm | Position | C=90.00 G=1.00 | CG         | Double Symmetrical |

## US ROAD STANDARDS



| Luminaire Classification System (LCS) |              |                   |                        |         |
|---------------------------------------|--------------|-------------------|------------------------|---------|
| LCS Zone                              |              | Lumens            | %Lamp                  | %Lum    |
| FL                                    | 0° -- 30°    | 108.6 lm          | 14.6 %                 | 14.6 %  |
| FM                                    | 30° -- 60°   | 197.6 lm          | 26.6 %                 | 26.6 %  |
| FH                                    | 60° -- 80°   | 62.6 lm           | 8.4 %                  | 8.4 %   |
| FVH                                   | 80° -- 90°   | 3.1 lm            | 0.4 %                  | 0.4 %   |
| BL                                    | 0° -- 30°    | 108.6 lm          | 14.6 %                 | 14.6 %  |
| BM                                    | 30° -- 60°   | 197.6 lm          | 26.6 %                 | 26.6 %  |
| BH                                    | 60° -- 80°   | 62.6 lm           | 8.4 %                  | 8.4 %   |
| BVH                                   | 80° -- 90°   | 3.1 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                                |              | 744.0 lm          | 100.0 %                | 100.0 % |
| BUG B0 U0 G0                          |              | Type V Very Short | Quadrilateral Symmetry |         |