

LEDS C4[®]

Luminaire

Code 05-E064-Z5-OU_4000K_2

Name MODIS

Measurement

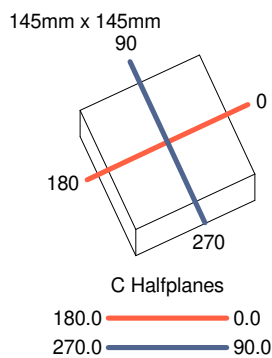
Code 05-E064-Z5-OU_4000K_2

Name MODIS

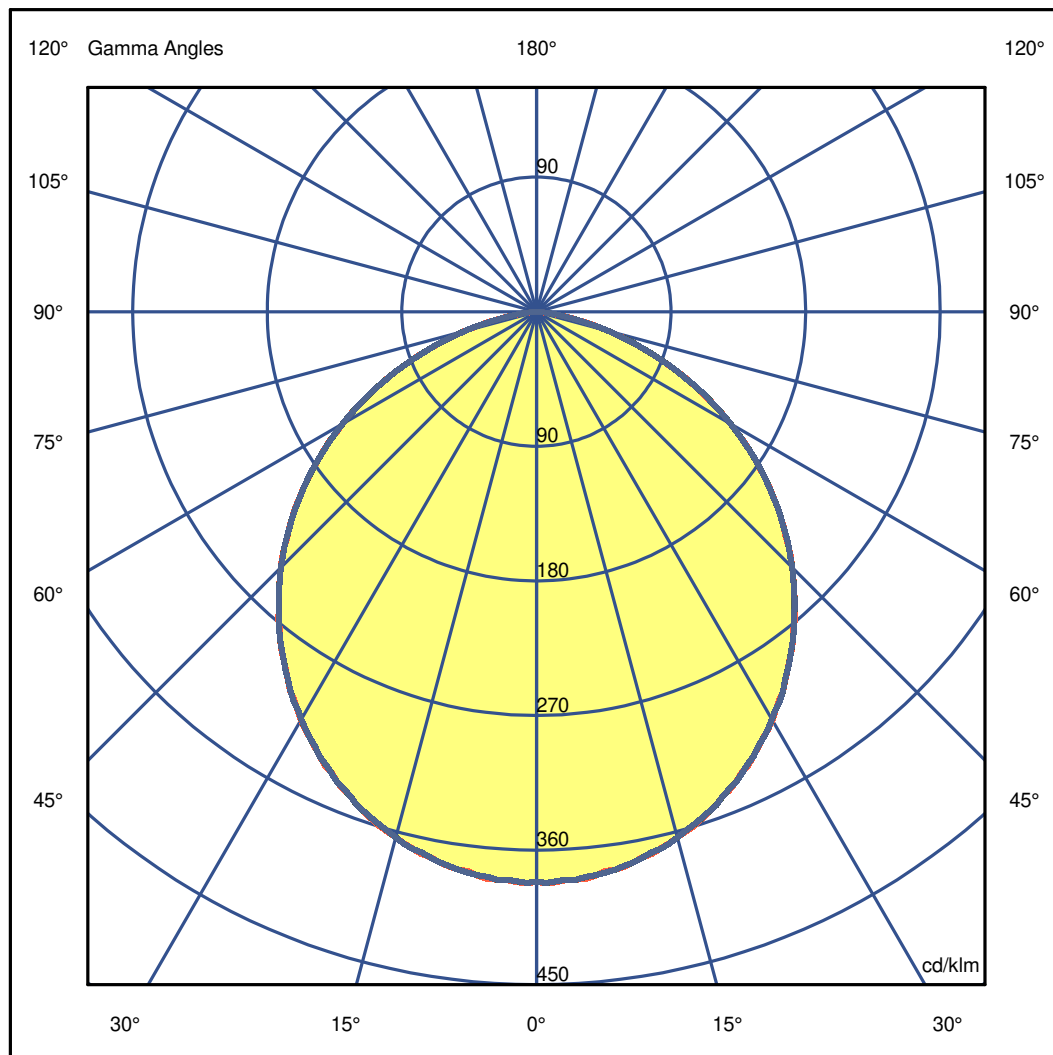
| | | | | | | | |
|----------------------------|--------|-----------------|---------------|-----------------------------|---------------|--------------------|--------------------|
| Luminaire Flux | 729 lm | Luminaire Power | 11.6 W | Efficacy | 62.858 lm/W | Efficiency | 100.00% |
| Source Flux | 729 lm | Maximum value | 382.01 cd/klm | Position | C=0.00 G=1.00 | 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 m2 | | Emitting area on Plane 180° | | 0.000000 m2 | |
| Emitting area on Plane 0° | | 0.000000 m2 | | Emitting area on Plane 270° | | 0.000000 m2 | |
| Emitting area on Plane 90° | | 0.000000 m2 | | Glare area at 76° | | 0.001748 m2 | |
| Coordinate system | | CG | | Symmetry Type | | Double Symmetrical | |
| Date | | 15-10-2021 | | Maximum Gamma Angle | | 90 | |
| Measurement Distance | | 0.00 | | Measurement Flux | | 729 lm | |
| Operator | | qualitat | | Rated Voltage | | | |
| Temperature | | | | Rated Current | | | |
| Humidity | | | | Photocell | | | |
| Notes | | | | | | | |

Luminaire Sources

| Line | Code LED | Name LED | Flux [lm] | Pow. [W] | Q.ty |
|--------|------------------|------------|-----------|----------|------|
| | | | 729.15 | 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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| Source Flux | 729 lm | Maximum value | 382.01 cd/klm | Position | C=0.00 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 | 381.17 | 381.17 | 381.17 | 381.17 | 381.17 | 381.17 | 381.17 |
| G 1.0 | 382.01 | 381.09 | 381.06 | 380.44 | 380.96 | 380.82 | 381.81 |
| G 2.0 | 381.64 | 380.32 | 380.68 | 380.32 | 380.82 | 380.86 | 381.00 |
| G 3.0 | 380.32 | 379.95 | 380.06 | 380.03 | 380.14 | 380.29 | 380.11 |
| G 4.0 | 380.54 | 379.56 | 379.81 | 378.65 | 379.80 | 380.03 | 380.68 |
| G 5.0 | 380.57 | 378.84 | 379.13 | 378.77 | 379.41 | 379.07 | 379.30 |
| G 6.0 | 378.96 | 377.59 | 378.14 | 377.93 | 378.35 | 378.56 | 378.76 |
| G 7.0 | 376.65 | 377.08 | 376.99 | 376.40 | 377.43 | 376.75 | 377.71 |
| G 8.0 | 376.82 | 376.03 | 375.90 | 375.60 | 375.87 | 375.97 | 376.75 |
| G 9.0 | 375.58 | 373.76 | 374.90 | 374.76 | 374.74 | 375.10 | 375.17 |
| G 10.0 | 373.71 | 372.96 | 372.73 | 372.45 | 373.12 | 373.57 | 373.82 |
| G 11.0 | 371.44 | 371.28 | 371.17 | 370.63 | 371.62 | 371.89 | 371.67 |
| G 12.0 | 370.76 | 369.52 | 369.80 | 369.40 | 369.95 | 369.20 | 369.48 |
| G 13.0 | 368.47 | 367.49 | 367.69 | 367.45 | 367.69 | 367.89 | 368.56 |
| G 14.0 | 366.34 | 365.07 | 365.21 | 365.21 | 365.95 | 366.05 | 366.57 |
| G 15.0 | 363.90 | 363.50 | 363.63 | 363.06 | 363.41 | 363.77 | 363.79 |
| G 16.0 | 361.56 | 360.64 | 361.37 | 360.59 | 361.23 | 361.11 | 361.19 |
| G 17.0 | 359.62 | 358.39 | 358.35 | 358.08 | 358.80 | 359.10 | 358.87 |
| G 18.0 | 356.76 | 355.88 | 355.88 | 355.60 | 356.18 | 355.70 | 356.22 |
| G 19.0 | 353.90 | 353.00 | 353.43 | 352.92 | 353.26 | 353.04 | 353.63 |
| G 20.0 | 351.12 | 349.86 | 350.26 | 349.83 | 350.58 | 350.63 | 351.32 |
| G 21.0 | 347.10 | 347.07 | 346.80 | 346.77 | 347.31 | 347.35 | 347.14 |
| G 22.0 | 344.76 | 343.86 | 344.14 | 343.59 | 343.89 | 344.19 | 344.18 |
| G 23.0 | 341.48 | 340.28 | 340.49 | 340.07 | 341.01 | 340.79 | 341.55 |
| G 24.0 | 337.20 | 337.18 | 337.44 | 337.04 | 337.49 | 337.73 | 337.58 |
| G 25.0 | 334.75 | 333.46 | 333.73 | 333.80 | 333.46 | 333.27 | 333.84 |
| G 26.0 | 330.72 | 329.94 | 330.10 | 329.81 | 330.17 | 330.42 | 330.85 |
| G 27.0 | 326.61 | 326.13 | 326.28 | 326.00 | 326.64 | 327.03 | 326.24 |
| G 28.0 | 322.70 | 322.10 | 322.46 | 322.07 | 322.44 | 322.10 | 322.94 |
| G 29.0 | 319.31 | 318.13 | 318.41 | 318.13 | 318.53 | 318.54 | 319.00 |
| G 30.0 | 315.32 | 314.13 | 314.17 | 313.92 | 314.45 | 314.70 | 314.62 |
| G 31.0 | 310.51 | 309.93 | 309.80 | 310.09 | 310.26 | 310.44 | 310.23 |
| G 32.0 | 306.00 | 305.85 | 305.99 | 305.36 | 305.91 | 305.87 | 306.76 |
| G 33.0 | 302.58 | 301.27 | 301.77 | 300.84 | 301.77 | 301.47 | 302.38 |
| G 34.0 | 297.32 | 296.36 | 296.79 | 296.89 | 297.13 | 297.24 | 297.07 |
| G 35.0 | 292.37 | 292.51 | 292.27 | 292.08 | 292.27 | 292.63 | 292.61 |
| G 36.0 | 287.61 | 287.31 | 287.58 | 287.08 | 287.55 | 287.67 | 287.88 |
| G 37.0 | 283.58 | 282.60 | 282.47 | 282.47 | 282.89 | 282.69 | 283.09 |
| G 38.0 | 278.60 | 277.73 | 277.86 | 277.70 | 278.11 | 277.87 | 278.48 |
| G 39.0 | 272.86 | 272.73 | 272.82 | 272.53 | 272.96 | 273.40 | 273.58 |
| G 40.0 | 268.67 | 267.76 | 268.01 | 267.53 | 267.89 | 268.11 | 268.00 |
| G 41.0 | 262.78 | 262.30 | 262.59 | 262.41 | 262.80 | 262.98 | 262.91 |
| G 42.0 | 257.90 | 257.38 | 257.65 | 257.08 | 257.49 | 257.65 | 257.75 |
| G 43.0 | 252.67 | 251.81 | 252.18 | 252.01 | 252.21 | 252.33 | 252.37 |
| G 44.0 | 247.07 | 246.61 | 246.96 | 246.77 | 246.99 | 247.17 | 247.24 |
| G 45.0 | 241.74 | 241.25 | 241.35 | 240.86 | 241.52 | 241.34 | 241.83 |
| G 46.0 | 236.56 | 235.71 | 235.71 | 235.69 | 236.05 | 235.87 | 235.93 |
| G 47.0 | 230.64 | 229.90 | 230.07 | 230.03 | 230.10 | 230.03 | 230.69 |
| G 48.0 | 224.19 | 224.33 | 224.33 | 223.96 | 224.59 | 224.55 | 224.78 |
| G 49.0 | 219.00 | 218.31 | 218.60 | 218.53 | 218.63 | 218.95 | 218.77 |
| G 50.0 | 213.30 | 212.52 | 212.56 | 212.55 | 212.81 | 212.64 | 213.25 |
| G 51.0 | 207.34 | 206.64 | 206.75 | 206.58 | 206.91 | 206.82 | 207.27 |
| G 52.0 | 200.65 | 200.62 | 200.78 | 200.47 | 200.96 | 200.86 | 200.83 |
| G 53.0 | 195.15 | 194.69 | 194.61 | 194.37 | 194.66 | 195.01 | 194.95 |
| G 54.0 | 188.77 | 188.04 | 188.43 | 188.22 | 188.40 | 188.48 | 188.71 |
| G 55.0 | 182.02 | 182.17 | 182.26 | 181.87 | 182.27 | 182.27 | 182.34 |
| G 56.0 | 175.97 | 175.62 | 175.79 | 175.92 | 175.97 | 175.85 | 176.22 |
| G 57.0 | 169.67 | 169.35 | 169.32 | 169.03 | 169.49 | 169.57 | 169.60 |
| G 58.0 | 163.29 | 162.83 | 162.94 | 162.79 | 162.90 | 162.95 | 163.14 |
| G 59.0 | 156.18 | 156.15 | 156.32 | 156.12 | 156.36 | 156.25 | 156.46 |
| G 60.0 | 149.78 | 149.70 | 149.88 | 149.74 | 149.94 | 150.06 | 150.03 |
| G 61.0 | 143.17 | 142.88 | 143.07 | 142.88 | 143.02 | 143.01 | 143.36 |
| G 62.0 | 136.83 | 136.36 | 136.28 | 136.20 | 136.54 | 136.47 | 136.55 |
| G 63.0 | 129.64 | 129.46 | 129.64 | 129.70 | 129.73 | 129.58 | 129.72 |
| G 64.0 | 122.89 | 122.80 | 122.82 | 122.76 | 122.79 | 122.85 | 123.11 |
| G 65.0 | 116.25 | 115.89 | 116.17 | 115.86 | 116.15 | 115.96 | 116.06 |
| G 66.0 | 109.42 | 109.21 | 109.22 | 108.96 | 109.26 | 109.25 | 109.24 |
| G 67.0 | 102.52 | 102.29 | 102.48 | 102.45 | 102.24 | 102.51 | 102.62 |
| G 68.0 | 95.37 | 95.47 | 95.51 | 95.39 | 95.59 | 95.56 | 95.70 |
| G 69.0 | 88.85 | 88.82 | 88.80 | 88.77 | 88.70 | 88.69 | 88.75 |
| G 70.0 | 81.97 | 81.84 | 81.93 | 81.93 | 81.98 | 81.97 | 81.89 |
| G 71.0 | 75.43 | 75.34 | 75.39 | 75.23 | 75.24 | 75.28 | 75.40 |
| G 72.0 | 68.75 | 68.67 | 68.72 | 68.61 | 68.73 | 68.65 | 68.80 |

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| Luminaire Flux | 729 lm | Luminaire Power | 11.6 W | Efficacy | 62.858 lm/W | Efficiency | 100.00% |
| Source Flux | 729 lm | Maximum value | 382.01 cd/klm | Position | C=0.00 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 | 62.33 | 62.32 | 62.38 | 62.17 | 62.25 | 62.31 | 62.18 |
| G 74.0 | 55.95 | 55.93 | 55.99 | 55.88 | 55.90 | 55.80 | 55.88 |
| G 75.0 | 49.85 | 49.89 | 49.77 | 49.80 | 49.69 | 49.73 | 49.75 |
| G 76.0 | 44.01 | 43.96 | 43.89 | 43.81 | 43.74 | 43.76 | 43.64 |
| G 77.0 | 38.11 | 38.12 | 38.21 | 37.99 | 37.96 | 38.05 | 37.82 |
| G 78.0 | 32.80 | 32.88 | 32.88 | 32.70 | 32.62 | 32.64 | 32.64 |
| G 79.0 | 27.78 | 27.80 | 27.71 | 27.62 | 27.60 | 27.46 | 27.55 |
| G 80.0 | 23.05 | 23.09 | 22.99 | 22.85 | 22.79 | 22.78 | 22.70 |
| G 81.0 | 18.66 | 18.77 | 18.67 | 18.52 | 18.39 | 18.35 | 18.32 |
| G 82.0 | 14.71 | 14.84 | 14.70 | 14.56 | 14.43 | 14.41 | 14.37 |
| G 83.0 | 11.29 | 11.38 | 11.22 | 11.06 | 10.93 | 10.89 | 10.84 |
| G 84.0 | 8.21 | 8.40 | 8.27 | 8.13 | 7.87 | 7.84 | 7.77 |
| G 85.0 | 5.85 | 5.85 | 5.77 | 5.53 | 5.42 | 5.36 | 5.22 |
| G 86.0 | 3.69 | 3.91 | 3.67 | 3.65 | 3.39 | 3.26 | 3.13 |
| G 87.0 | 2.33 | 2.43 | 2.36 | 2.03 | 1.85 | 1.88 | 1.48 |
| G 88.0 | 1.22 | 1.43 | 1.37 | 1.10 | 0.87 | 0.82 | 0.69 |
| G 89.0 | 0.59 | 0.74 | 0.61 | 0.55 | 0.39 | 0.30 | 0.24 |
| G 90.0 | 0.03 | 0.36 | 0.12 | 0.20 | 0.10 | 0.05 | 0.07 |

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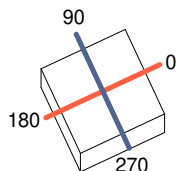
Measur.

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| Luminaire Flux | 729 lm | Luminaire Power | 11.6 W | Efficacy | 62.858 lm/W | Efficiency | 100.00% |
| Source Flux | 729 lm | Maximum value | 382.01 cd/klm | Position | C=0.00 G=1.00 | CG | Double Symmetrical |

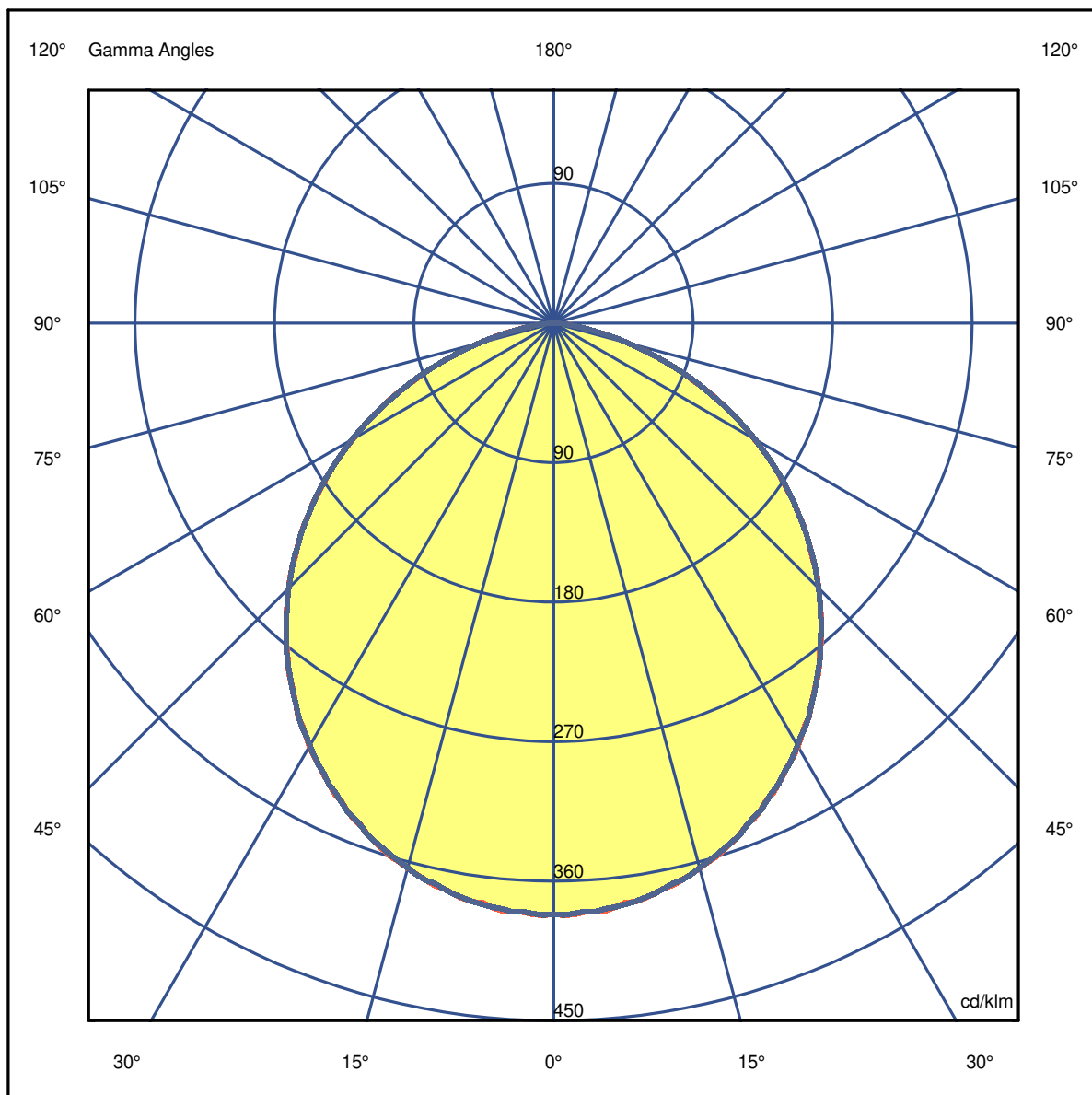
145mm x 145mm



C Halfplanes

180.0 ———— 0.0

270.0 ———— 90.0



LEDS C4²

Luminaire

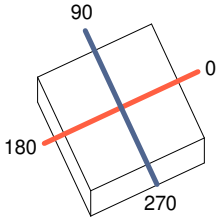
Code 05-E064-Z5-OU_4000K_2
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Code 05-E064-Z5-OU_4000K_2
Name MODIS

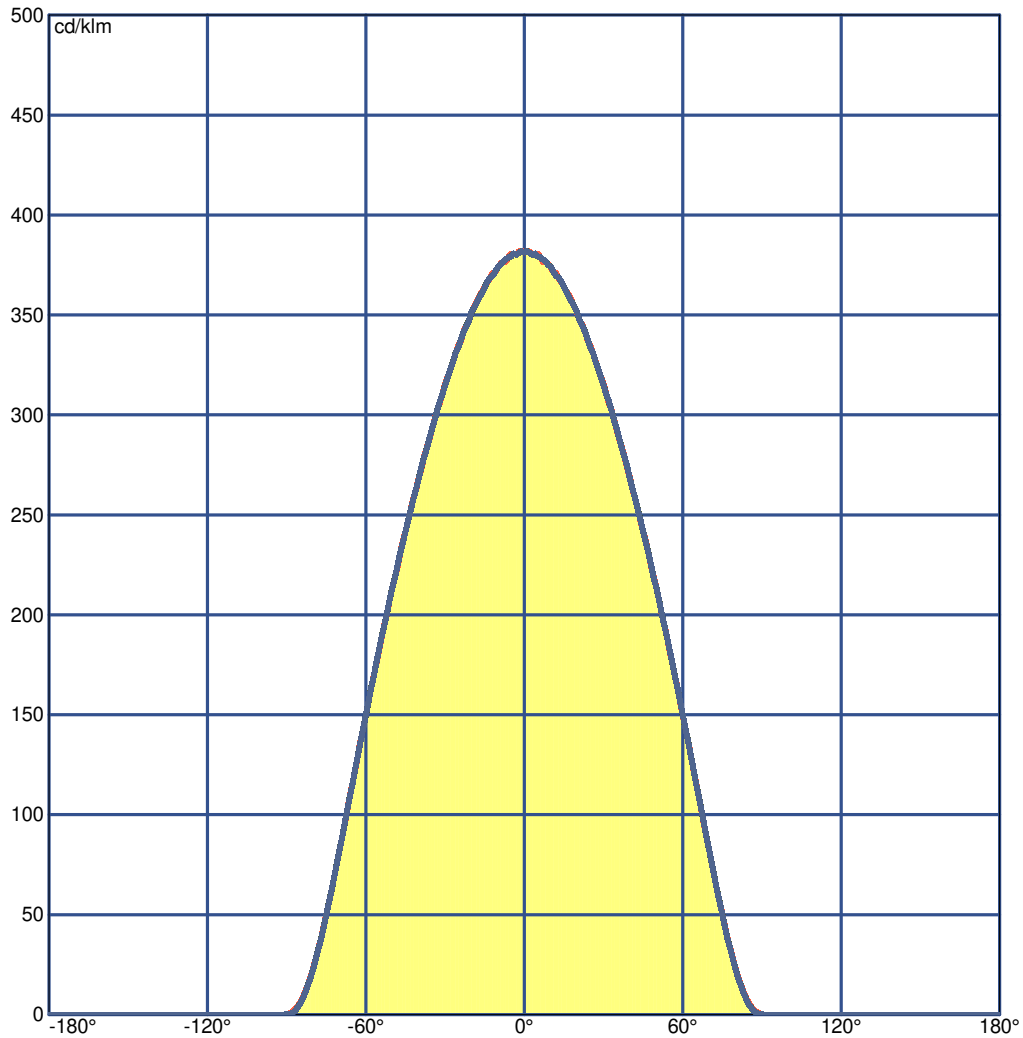
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145mm x 145mm



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270.0 ———— 90.0



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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 | 25.9 | 25.0 | 26.2 | 26.4 | 24.7 | 26.0 | 25.0 | 26.2 | 26.4 |
| x=2H y=3H | 25.9 | 27.1 | 26.3 | 27.4 | 27.6 | 26.0 | 27.1 | 26.3 | 27.4 | 27.6 |
| x=2H y=4H | 26.3 | 27.4 | 26.7 | 27.7 | 28.0 | 26.3 | 27.4 | 26.7 | 27.7 | 28.0 |
| x=2H y=6H | 26.5 | 27.5 | 26.9 | 27.8 | 28.1 | 26.5 | 27.5 | 26.9 | 27.8 | 28.1 |
| x=2H y=8H | 26.6 | 27.5 | 26.9 | 27.8 | 28.2 | 26.6 | 27.5 | 26.9 | 27.8 | 28.2 |
| x=2H y=12H | 26.5 | 27.5 | 26.9 | 27.8 | 28.1 | 26.5 | 27.4 | 26.9 | 27.8 | 28.1 |
| x=4H y=2H | 25.3 | 26.4 | 25.6 | 26.6 | 26.9 | 25.3 | 26.4 | 25.6 | 26.6 | 26.9 |
| x=4H y=3H | 26.7 | 27.6 | 27.1 | 28.0 | 28.3 | 26.7 | 27.6 | 27.1 | 28.0 | 28.3 |
| x=4H y=4H | 27.2 | 28.0 | 27.6 | 28.4 | 28.7 | 27.2 | 28.0 | 27.6 | 28.4 | 28.7 |
| x=4H y=6H | 27.5 | 28.2 | 27.9 | 28.6 | 28.9 | 27.5 | 28.2 | 27.9 | 28.6 | 28.9 |
| x=4H y=8H | 27.5 | 28.2 | 27.9 | 28.6 | 29.0 | 27.5 | 28.2 | 27.9 | 28.5 | 29.0 |
| x=4H y=12H | 27.5 | 28.1 | 28.0 | 28.5 | 28.9 | 27.5 | 28.1 | 28.0 | 28.5 | 28.9 |
| x=8H y=4H | 27.4 | 28.0 | 27.8 | 28.4 | 28.8 | 27.4 | 28.0 | 27.8 | 28.4 | 28.8 |
| x=8H y=6H | 27.7 | 28.2 | 28.2 | 28.7 | 29.1 | 27.7 | 28.2 | 28.2 | 28.7 | 29.1 |
| x=8H y=8H | 27.8 | 28.2 | 28.3 | 28.7 | 29.2 | 27.8 | 28.2 | 28.3 | 28.7 | 29.2 |
| x=8H y=12H | 27.8 | 28.2 | 28.3 | 28.7 | 29.2 | 27.8 | 28.2 | 28.3 | 28.7 | 29.1 |
| x=12H y=4H | 27.4 | 28.0 | 27.8 | 28.4 | 28.8 | 27.4 | 28.0 | 27.8 | 28.4 | 28.8 |
| x=12H y=6H | 27.7 | 28.2 | 28.2 | 28.6 | 29.1 | 27.7 | 28.2 | 28.2 | 28.6 | 29.1 |
| x=12H y=8H | 27.8 | 28.2 | 28.3 | 28.7 | 29.2 | 27.8 | 28.2 | 28.3 | 28.7 | 29.1 |

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Total Flux=729.15 Luminaire Flux=729.15

| | | | | | | | | | | | | |
|-----|------|------|------|------|------|------|------|------|------|------|-------|-------|
| 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 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 |

Zonal Flux per 1000 Lumen

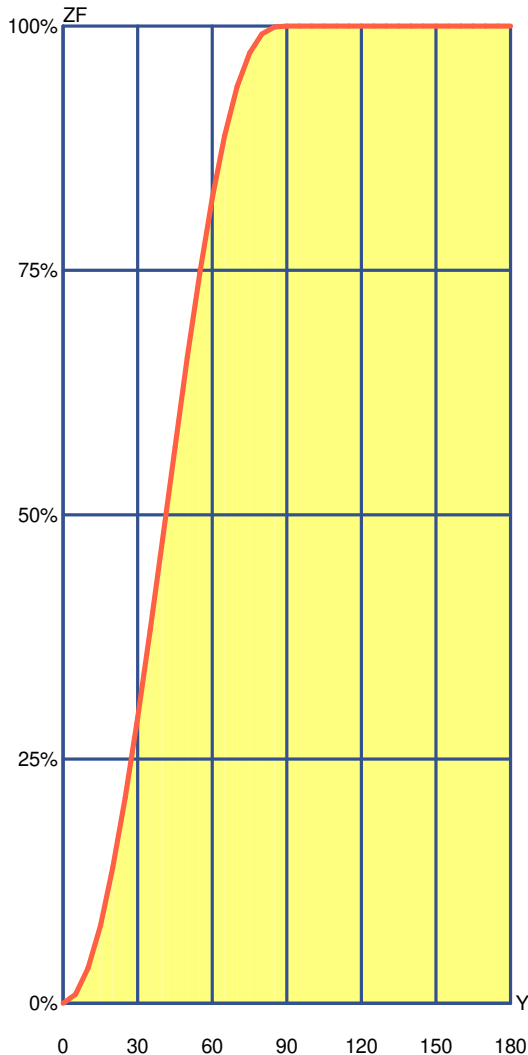
| | | | | | | | | | | | | | | | | | | |
|-------|----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|
| Y° | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| ZF(Y) | 36 | 139 | 292 | 475 | 661 | 824 | 938 | 992 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |

CIE Flux Codes

50 82 97 100 100

C.I.E. 5/5/4/4/4/4/4/4/4/3
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° | 9.09 | 9.09 | 0.91% | 0.91% |
| 10° | 26.91 | 36.00 | 2.69% | 3.60% |
| 15° | 43.69 | 79.69 | 4.37% | 7.97% |
| 20° | 58.82 | 138.51 | 5.88% | 13.85% |
| 25° | 71.73 | 210.24 | 7.17% | 21.02% |
| 30° | 82.01 | 292.25 | 8.20% | 29.23% |
| 35° | 89.34 | 381.59 | 8.93% | 38.16% |
| 40° | 93.44 | 475.04 | 9.34% | 47.50% |
| 45° | 94.28 | 569.32 | 9.43% | 56.93% |
| 50° | 91.75 | 661.07 | 9.18% | 66.11% |
| 55° | 85.87 | 746.94 | 8.59% | 74.69% |
| 60° | 76.72 | 823.66 | 7.67% | 82.37% |
| 65° | 64.59 | 888.25 | 6.46% | 88.82% |
| 70° | 50.07 | 938.32 | 5.01% | 93.83% |
| 75° | 34.26 | 972.58 | 3.43% | 97.26% |
| 80° | 19.09 | 991.68 | 1.91% | 99.17% |
| 85° | 7.22 | 998.90 | 0.72% | 99.89% |
| 90° | 1.10 | 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⁺

Luminaire

Code 05-E064-Z5-OU_4000K_2
Name MODIS

Measurement

Code 05-E064-Z5-OU_4000K_2
Name MODIS

| | | | | | | | |
|----------------|--------|-----------------|---------------|----------|---------------|------------|--------------------|
| Luminaire Flux | 729 lm | Luminaire Power | 11.6 W | Efficacy | 62.858 lm/W | Efficiency | 100.00% |
| Source Flux | 729 lm | Maximum value | 382.01 cd/klm | Position | C=0.00 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 | 159 | 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 | 294 | 149 | 233 | 218 | 111 | 104 | 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 | 376 | 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 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 | 459 | 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 | 492 | 419 | 401 | 392 | 350 | 344 | 300 | 295 | 263 | 260 | 340 | 295 | 293 | 261 | 260 | 292 | 260 | 259 | 235 | 1.00 | 549 | 536 | 449 | 442 | 525 | 436 | 438 | 428 | 372 | 367 | 325 | 320 | 288 | 285 | 361 | 319 | 317 | 286 | 284 | 315 | 284 | 283 | 255 | 1.25 | 578 | 566 | 459 | 453 | 552 | 446 | 471 | 460 | 390 | 385 | 346 | 341 | 311 | 307 | 378 | 339 | 337 | 308 | 306 | 334 | 305 | 303 | 273 | 1.50 | 598 | 587 | 465 | 460 | 571 | 452 | 496 | 485 | 402 | 397 | 361 | 356 | 328 | 324 | 389 | 354 | 351 | 324 | 322 | 348 | 321 | 318 | 286 | 2.00 | 616 | 606 | 459 | 455 | 587 | 448 | 523 | 512 | 407 | 402 | 373 | 367 | 344 | 339 | 394 | 364 | 362 | 339 | 336 | 357 | 334 | 331 | 294 | 2.50 | 625 | 616 | 452 | 449 | 596 | 442 | 540 | 530 | 407 | 404 | 378 | 373 | 353 | 348 | 395 | 369 | 367 | 347 | 344 | 362 | 342 | 337 | 298 | 3.00 | 629 | 621 | 444 | 442 | 599 | 434 | 549 | 540 | 405 | 402 | 379 | 375 | 357 | 352 | 392 | 370 | 368 | 350 | 348 | 362 | 344 | 339 | 298 | 4.00 | 639 | 632 | 439 | 437 | 608 | 430 | 568 | 559 | 407 | 404 | 386 | 382 | 367 | 363 | 394 | 376 | 374 | 359 | 357 | 367 | 353 | 346 | 302 | 5.00 | 646 | 641 | 436 | 435 | 615 | 428 | 581 | 574 | 409 | 406 | 391 | 388 | 375 | 371 | 396 | 381 | 379 | 367 | 364 | 371 | 359 | 352 | 306 | 10.00 | 660 | 657 | 428 | 427 | 628 | 420 | 608 | 604 | 410 | 409 | 400 | 398 | 390 | 388 | 397 | 389 | 388 | 380 | 379 | 378 | 371 | 362 | 312 | 20.00 | 655 | 653 | 411 | 410 | 623 | 404 | 612 | 609 | 398 | 398 | 393 | 392 | 388 | 386 | 386 | 381 | 380 | 376 | 375 | 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 | 457 | 451 | 392 | 387 | 345 | 343 | 447 | 387 | 386 | 343 | 342 | 384 | 342 | 342 | 325 | 0.80 | 718 | 704 | 661 | 652 | 692 | 644 | 579 | 568 | 552 | 545 | 486 | 480 | 436 | 433 | 539 | 480 | 477 | 434 | 433 | 475 | 432 | 431 | 413 | 1.00 | 804 | 789 | 732 | 723 | 774 | 714 | 664 | 652 | 628 | 621 | 564 | 557 | 515 | 511 | 613 | 556 | 554 | 511 | 509 | 550 | 509 | 506 | 489 | 1.25 | 883 | 869 | 796 | 788 | 850 | 777 | 747 | 734 | 700 | 693 | 639 | 632 | 591 | 586 | 682 | 630 | 627 | 587 | 584 | 622 | 583 | 580 | 563 | 1.50 | 942 | 928 | 841 | 834 | 906 | 823 | 810 | 796 | 752 | 746 | 696 | 688 | 650 | 644 | 734 | 685 | 682 | 644 | 641 | 676 | 639 | 635 | 619 | 2.00 | 1000 | 1000 | 905 | 899 | 988 | 887 | 905 | 891 | 830 | 824 | 782 | 774 | 741 | 735 | 810 | 769 | 766 | 733 | 730 | 758 | 726 | 721 | 706 | 2.50 | 1000 | 1000 | 944 | 939 | 1000 | 927 | 968 | 955 | 878 | 873 | 837 | 830 | 801 | 794 | 858 | 822 | 820 | 791 | 788 | 810 | 783 | 776 | 762 | 3.00 | 1000 | 1000 | 970 | 966 | 1000 | 953 | 1000 | 1000 | 912 | 907 | 876 | 869 | 844 | 837 | 891 | 860 | 858 | 833 | 829 | 847 | 823 | 814 | 802 | 4.00 | 1000 | 1000 | 1000 | 997 | 1000 | 985 | 1000 | 1000 | 952 | 949 | 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 | 955 | 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 | 938 | 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[®]

Luminaire

Code 05-E064-Z5-OU_4000K_2
Name MODIS

Measurem.

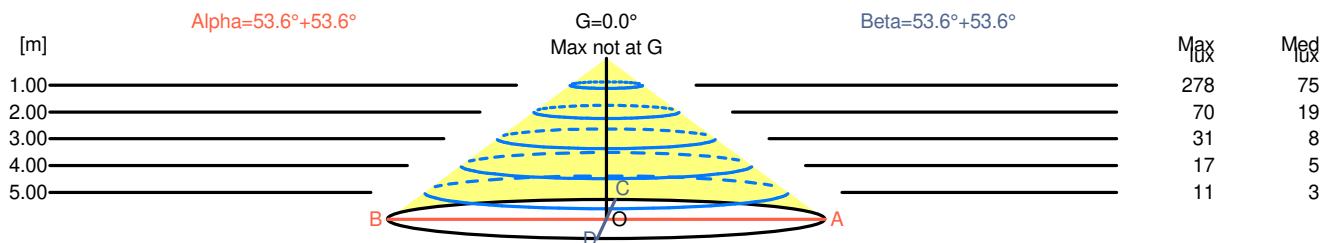
Code 05-E064-Z5-OU_4000K_2
Name MODIS

| | | | | | | | |
|----------------|--------|-----------------|---------------|----------|---------------|------------|--------------------|
| Luminaire Flux | 729 lm | Luminaire Power | 11.6 W | Efficacy | 62.858 lm/W | Efficiency | 100.00% |
| Source Flux | 729 lm | Maximum value | 382.01 cd/klm | Position | C=0.00 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 | 6.79 | OC | 1.36 | 2.72 | 4.07 | 5.43 | 6.79 |
| OB | 1.36 | 2.72 | 4.08 | 5.44 | 6.79 | OD | 1.36 | 2.72 | 4.07 | 5.43 | 6.79 |

| | Luminous Intensities [cd/klm] | | | | | | | | | |
|----|---------------------------------|--------|--------|--------|--------|--------|--------|-------|-------|------|
| | 0 | 5 | 15 | 25 | 35 | 45 | 55 | 65 | 75 | 85 |
| OA | 277.93 | 277.49 | 265.34 | 244.09 | 213.18 | 176.26 | 132.72 | 84.76 | 36.35 | 4.26 |
| OB | 277.93 | 277.49 | 265.34 | 244.09 | 213.18 | 176.26 | 132.72 | 84.76 | 36.35 | 4.26 |
| OC | 277.93 | 276.57 | 265.26 | 243.42 | 213.36 | 176.33 | 132.95 | 84.63 | 36.27 | 3.81 |
| OD | 277.93 | 276.57 | 265.26 | 243.42 | 213.36 | 176.33 | 132.95 | 84.63 | 36.27 | 3.81 |



| H[m] | D[m] | Max lux | Med lux | Alpha=53.6°+53.6° | G=0.0 Max not at G |
|------|-------|---------|---------|-------------------|-----------------------|
| 1.00 | 2.72 | 278 | 75 | | |
| 2.00 | 5.44 | 70 | 19 | | |
| 3.00 | 8.15 | 31 | 8 | | |
| 4.00 | 10.87 | 17 | 5 | | |
| 5.00 | 13.59 | 11 | 3 | | |

| H[m] | D[m] | Max lux | Med lux | Beta=53.6°+53.6° | G=0.0 Max not at G |
|------|-------|---------|---------|------------------|-----------------------|
| 1.00 | 2.72 | 278 | 75 | | |
| 2.00 | 5.43 | 70 | 19 | | |
| 3.00 | 8.15 | 31 | 8 | | |
| 4.00 | 10.86 | 17 | 5 | | |
| 5.00 | 13.58 | 11 | 3 | | |

LEDS C4[®]

Luminaire

Code 05-E064-Z5-OU_4000K_2
Name MODIS

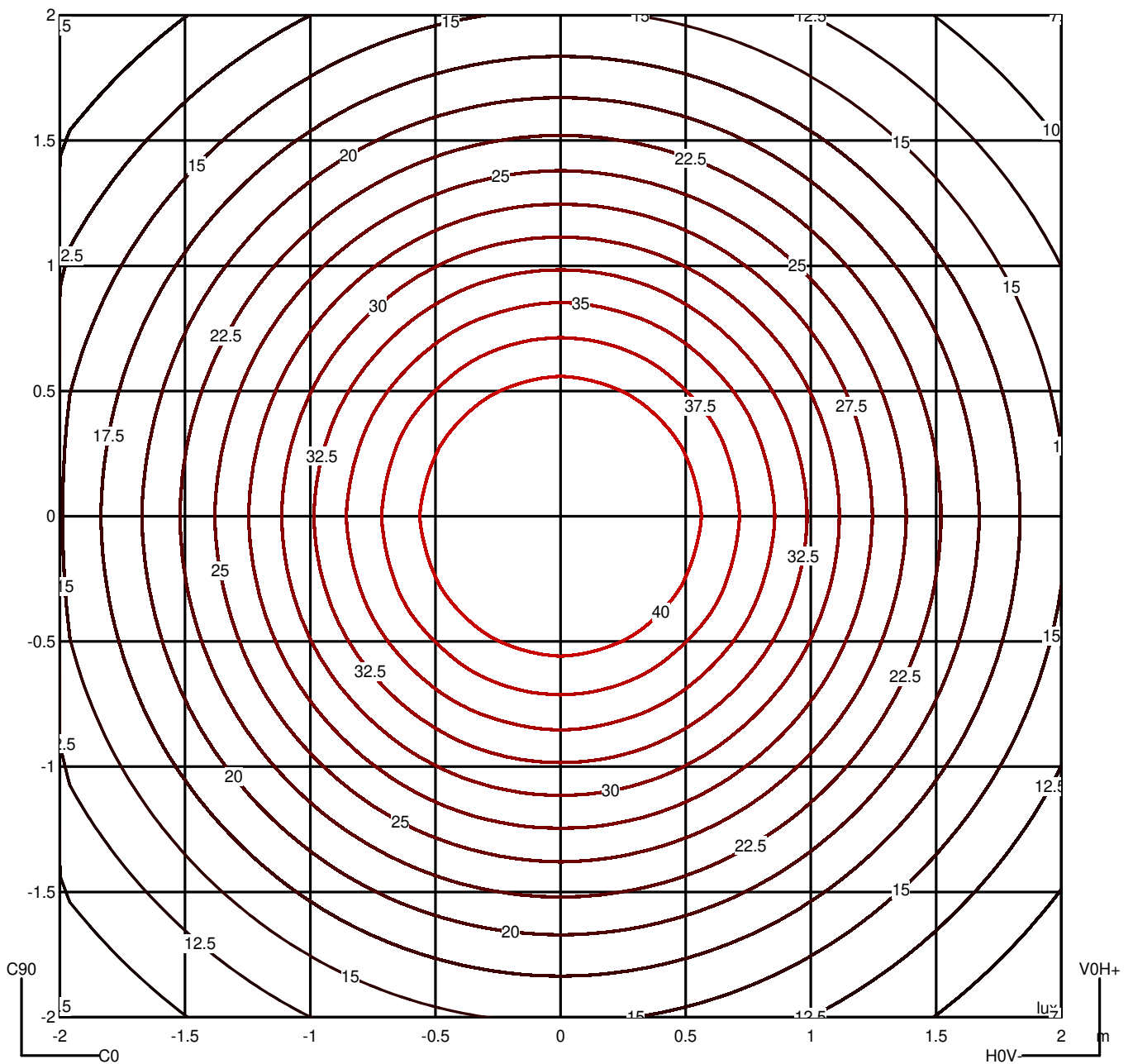
Measurment.

Code 05-E064-Z5-OU_4000K_2
Name MODIS

| | | | | | | | |
|----------------|--------|-----------------|---------------|----------|---------------|------------|--------------------|
| Luminaire Flux | 729 lm | Luminaire Power | 11.6 W | Efficacy | 62.858 lm/W | Efficiency | 100.00% |
| Source Flux | 729 lm | Maximum value | 382.01 cd/klm | Position | C=0.00 G=1.00 | CG | Double Symmetrical |

Isolux (Floor)

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



LEDS C4[®]

Luminaire

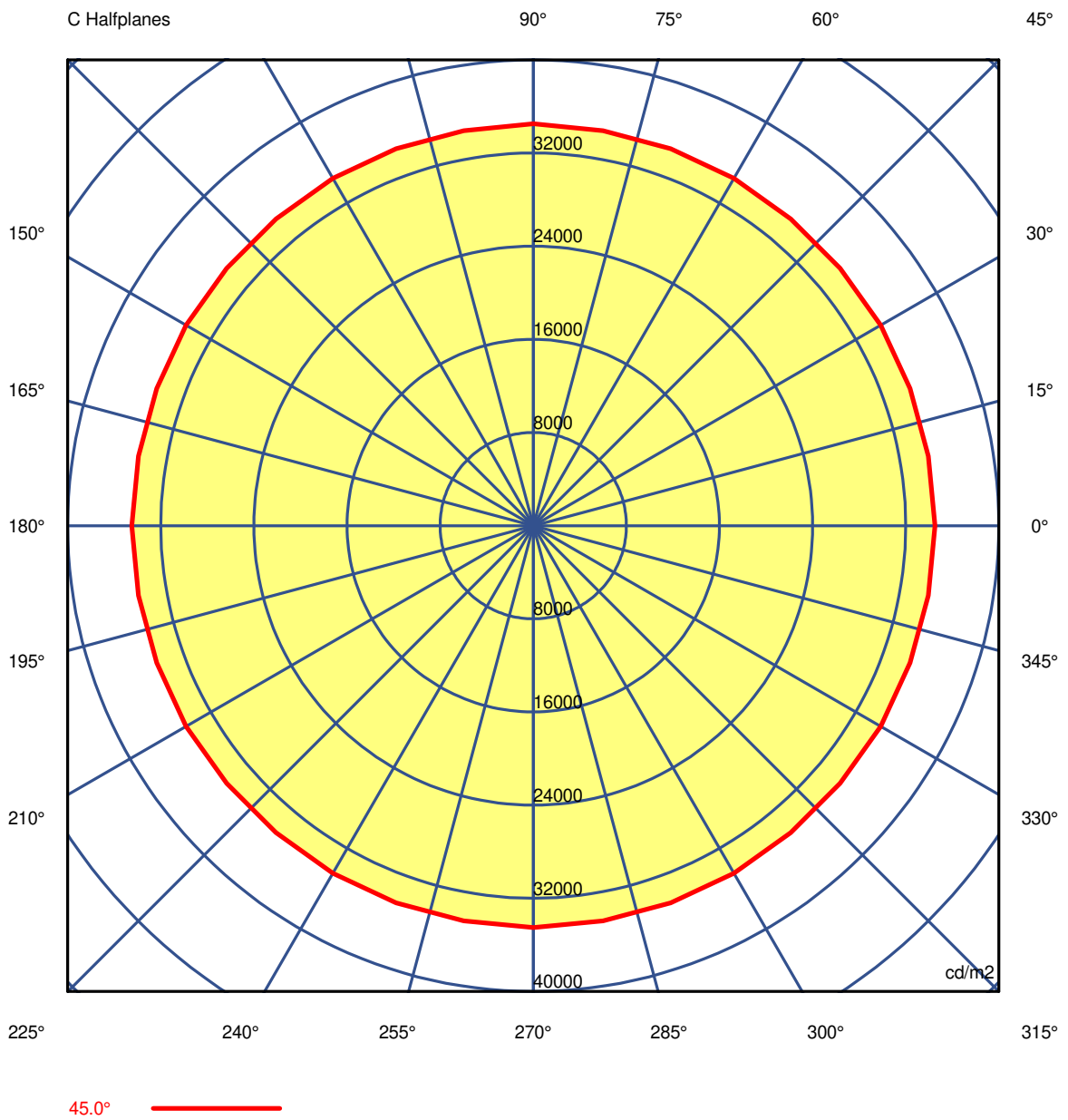
Code 05-E064-Z5-OU_4000K_2
 Name MODIS

Measurem.

Code 05-E064-Z5-OU_4000K_2
 Name MODIS

| | | | | | | | |
|----------------|--------|-----------------|---------------|----------|---------------|------------|--------------------|
| Luminaire Flux | 729 lm | Luminaire Power | 11.6 W | Efficacy | 62.858 lm/W | Efficiency | 100.00% |
| Source Flux | 729 lm | Maximum value | 382.01 cd/klm | Position | C=0.00 G=1.00 | CG | Double Symmetrical |

Luminance



LEDS C4⁺

Luminaire

Code 05-E064-Z5-OU_4000K_2
Name MODIS

Measurement

Code 05-E064-Z5-OU_4000K_2
Name MODIS

| | | | | | | | |
|----------------|--------|-----------------|---------------|----------|---------------|------------|--------------------|
| Luminaire Flux | 729 lm | Luminaire Power | 11.6 W | Efficacy | 62.858 lm/W | Efficiency | 100.00% |
| Source Flux | 729 lm | Maximum value | 382.01 cd/klm | Position | C=0.00 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 | 38467.76 | 38467.76 | 38467.76 | 38467.76 | 38467.76 | 38467.76 | 38467.76 | 38467.76 | 38467.76 | 38467.76 | 38467.76 | 38467.76 | 38467.76 |
| G 5.0 | 38553.70 | 38414.42 | 38378.58 | 38407.68 | 38379.07 | 38388.39 | 38436.15 | 38416.62 | 38400.51 | 38425.77 | 38400.51 | 38416.62 | 38436.15 |
| G 10.0 | 38296.42 | 38239.59 | 38210.15 | 38196.60 | 38170.11 | 38183.27 | 38236.44 | 38271.97 | 38292.01 | 38307.72 | 38292.01 | 38271.97 | 38236.44 |
| G 15.0 | 38020.74 | 37984.31 | 37984.69 | 37992.68 | 37949.34 | 37933.95 | 37969.48 | 37998.68 | 38007.40 | 38009.37 | 38007.40 | 37998.68 | 37969.48 |
| G 20.0 | 37709.36 | 37597.60 | 37581.79 | 37617.21 | 37581.29 | 37589.24 | 37651.12 | 37654.64 | 37671.16 | 37730.69 | 37671.16 | 37654.64 | 37651.12 |
| G 25.0 | 37275.87 | 37161.97 | 37141.69 | 37162.03 | 37174.27 | 37159.27 | 37131.75 | 37109.66 | 37124.17 | 37174.70 | 37124.17 | 37109.66 | 37131.75 |
| G 30.0 | 36745.12 | 36637.39 | 36608.42 | 36611.18 | 36587.63 | 36594.91 | 36643.72 | 36669.37 | 36671.52 | 36663.59 | 36671.52 | 36669.37 | 36643.72 |
| G 35.0 | 36020.69 | 36036.52 | 36031.62 | 36007.98 | 35988.18 | 35987.23 | 36008.24 | 36040.25 | 36056.00 | 36050.40 | 36056.00 | 36040.25 | 36008.24 |
| G 40.0 | 35395.17 | 35296.66 | 35281.47 | 35307.78 | 35264.01 | 35249.17 | 35292.90 | 35318.71 | 35319.39 | 35307.14 | 35319.39 | 35318.71 | 35292.90 |
| G 45.0 | 34501.34 | 34442.51 | 34437.88 | 34446.57 | 34389.20 | 34399.73 | 34469.93 | 34456.17 | 34454.72 | 34514.66 | 34454.72 | 34456.17 | 34469.93 |
| G 50.0 | 33488.95 | 33393.64 | 33368.61 | 33373.18 | 33372.14 | 33386.06 | 33411.90 | 33390.03 | 33403.68 | 33481.02 | 33403.68 | 33390.03 | 33411.90 |
| G 55.0 | 32027.13 | 32041.08 | 32065.75 | 32068.79 | 32014.03 | 32014.04 | 32070.80 | 32070.15 | 32073.93 | 32082.15 | 32073.93 | 32070.15 | 32070.80 |
| G 60.0 | 30231.58 | 30213.68 | 30228.67 | 30252.00 | 30231.71 | 30229.94 | 30263.34 | 30284.54 | 30288.52 | 30283.19 | 30288.52 | 30284.54 | 30263.34 |
| G 65.0 | 27759.69 | 27682.15 | 27695.20 | 27740.96 | 27687.07 | 27681.41 | 27735.84 | 27710.93 | 27688.63 | 27714.93 | 27688.63 | 27710.93 | 27735.84 |
| G 70.0 | 24186.17 | 24154.36 | 24154.95 | 24175.55 | 24175.55 | 24177.56 | 24188.94 | 24190.12 | 24180.10 | 24163.95 | 24180.10 | 24190.12 | 24188.94 |
| G 75.0 | 19436.88 | 19455.17 | 19437.93 | 19407.58 | 19415.80 | 19405.76 | 19375.17 | 19381.82 | 19393.14 | 19397.73 | 19393.14 | 19381.82 | 19375.17 |
| G 80.0 | 13395.09 | 13419.50 | 13409.68 | 13361.82 | 13302.59 | 13259.44 | 13243.37 | 13241.30 | 13229.38 | 13193.12 | 13229.38 | 13241.30 | 13243.37 |
| G 85.0 | 6772.98 | 6781.34 | 6765.32 | 6679.47 | 6496.66 | 6341.53 | 6271.00 | 6232.64 | 6162.72 | 6049.77 | 6162.72 | 6232.64 | 6271.00 |
| 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⁺

Luminaire

Code 05-E064-Z5-OU_4000K_2
Name MODIS

Measurement

Code 05-E064-Z5-OU_4000K_2
Name MODIS

| | | | | | | | |
|----------------|--------|-----------------|---------------|----------|---------------|------------|--------------------|
| Luminaire Flux | 729 lm | Luminaire Power | 11.6 W | Efficacy | 62.858 lm/W | Efficiency | 100.00% |
| Source Flux | 729 lm | Maximum value | 382.01 cd/klm | Position | C=0.00 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 | 38467.76 | 38467.76 | 38467.76 | 38467.76 | 38467.76 | 38467.76 | 38467.76 | 38467.76 | 38467.76 | 38467.76 | 38467.76 | 38467.76 | 38467.76 |
| G 5.0 | 38388.39 | 38379.07 | 38407.68 | 38378.58 | 38414.42 | 38553.70 | 38414.42 | 38378.58 | 38407.68 | 38379.07 | 38388.39 | 38436.15 | 38416.62 |
| G 10.0 | 38183.27 | 38170.11 | 38196.60 | 38210.15 | 38239.59 | 38296.42 | 38239.59 | 38210.15 | 38196.60 | 38170.11 | 38183.27 | 38236.44 | 38271.97 |
| G 15.0 | 37933.95 | 37949.34 | 37992.68 | 37984.69 | 37984.31 | 38020.74 | 37984.31 | 37984.69 | 37992.68 | 37949.34 | 37933.95 | 37969.48 | 37998.68 |
| G 20.0 | 37589.24 | 37581.29 | 37617.21 | 37581.79 | 37597.60 | 37709.36 | 37597.60 | 37581.79 | 37617.21 | 37581.29 | 37589.24 | 37651.12 | 37654.64 |
| G 25.0 | 37159.27 | 37174.27 | 37162.03 | 37141.69 | 37161.97 | 37275.87 | 37161.97 | 37141.69 | 37162.03 | 37174.27 | 37159.27 | 37131.75 | 37109.66 |
| G 30.0 | 36594.91 | 36587.63 | 36611.18 | 36608.42 | 36637.39 | 36745.12 | 36637.39 | 36608.42 | 36611.18 | 36587.63 | 36594.91 | 36643.72 | 36669.37 |
| G 35.0 | 35987.23 | 35988.18 | 36007.98 | 36031.62 | 36036.52 | 36020.69 | 36036.52 | 36031.62 | 36007.98 | 35988.18 | 35987.23 | 36008.24 | 36040.25 |
| G 40.0 | 35249.17 | 35264.01 | 35307.78 | 35281.47 | 35296.66 | 35395.17 | 35296.66 | 35281.47 | 35307.78 | 35264.01 | 35249.17 | 35292.90 | 35318.71 |
| G 45.0 | 34399.73 | 34389.20 | 34446.57 | 34437.88 | 34442.51 | 34501.34 | 34442.51 | 34437.88 | 34446.57 | 34389.20 | 34399.73 | 34469.93 | 34456.17 |
| G 50.0 | 33386.06 | 33372.14 | 33373.18 | 33368.61 | 33393.64 | 33488.95 | 33393.64 | 33368.61 | 33373.18 | 33372.14 | 33386.06 | 33411.90 | 33390.03 |
| G 55.0 | 32014.04 | 32014.03 | 32068.79 | 32065.75 | 32041.08 | 32027.13 | 32041.08 | 32065.75 | 32068.79 | 32014.03 | 32014.04 | 32070.80 | 32070.15 |
| G 60.0 | 30229.94 | 30231.71 | 30252.00 | 30228.67 | 30213.68 | 30231.58 | 30213.68 | 30228.67 | 30252.00 | 30231.71 | 30229.94 | 30263.34 | 30284.54 |
| G 65.0 | 27681.41 | 27687.07 | 27740.96 | 27695.20 | 27682.15 | 27759.69 | 27682.15 | 27695.20 | 27740.96 | 27687.07 | 27681.41 | 27735.84 | 27710.93 |
| G 70.0 | 24177.56 | 24175.55 | 24175.55 | 24154.95 | 24154.36 | 24186.17 | 24154.36 | 24154.95 | 24175.55 | 24177.56 | 24177.56 | 24188.94 | 24190.12 |
| G 75.0 | 19405.76 | 19415.80 | 19407.58 | 19437.93 | 19455.17 | 19436.88 | 19455.17 | 19437.93 | 19407.58 | 19415.80 | 19405.76 | 19375.17 | 19381.82 |
| G 80.0 | 13259.44 | 13302.59 | 13361.82 | 13409.68 | 13419.50 | 13395.09 | 13419.50 | 13409.68 | 13361.82 | 13302.59 | 13259.44 | 13243.37 | 13241.30 |
| G 85.0 | 6341.53 | 6496.66 | 6679.47 | 6765.32 | 6781.34 | 6772.98 | 6781.34 | 6765.32 | 6679.47 | 6496.66 | 6341.53 | 6271.00 | 6232.64 |
| 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[®]

Luminaire

Code 05-E064-Z5-OU_4000K_2
Name MODIS

Measur.

Code 05-E064-Z5-OU_4000K_2
Name MODIS

| | | | | | | | |
|----------------|--------|-----------------|---------------|----------|---------------|------------|--------------------|
| Luminaire Flux | 729 lm | Luminaire Power | 11.6 W | Efficacy | 62.858 lm/W | Efficiency | 100.00% |
| Source Flux | 729 lm | Maximum value | 382.01 cd/klm | Position | C=0.00 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 | 38467.76 | 38467.76 | 38467.76 | 38467.76 | 38467.76 | 38467.76 | 38467.76 | 38467.76 | 38467.76 | 38467.76 |
| G 5.0 | 38400.51 | 38425.77 | 38400.51 | 38416.62 | 38436.15 | 38388.39 | 38379.07 | 38407.68 | 38378.58 | 38414.42 |
| G 10.0 | 38292.01 | 38307.72 | 38292.01 | 38271.97 | 38236.44 | 38183.27 | 38170.11 | 38196.60 | 38210.15 | 38239.59 |
| G 15.0 | 38007.40 | 38009.37 | 38007.40 | 37998.68 | 37969.48 | 37933.95 | 37949.34 | 37992.68 | 37984.69 | 37984.31 |
| G 20.0 | 37671.16 | 37730.69 | 37671.16 | 37654.64 | 37651.12 | 37589.24 | 37581.29 | 37617.21 | 37581.79 | 37597.60 |
| G 25.0 | 37124.17 | 37174.70 | 37124.17 | 37109.66 | 37131.75 | 37159.27 | 37174.27 | 37162.03 | 37141.69 | 37161.97 |
| G 30.0 | 36671.52 | 36663.59 | 36671.52 | 36669.37 | 36643.72 | 36594.91 | 36587.63 | 36611.18 | 36608.42 | 36637.39 |
| G 35.0 | 36056.00 | 36050.40 | 36056.00 | 36040.25 | 36008.24 | 35987.23 | 35988.18 | 36007.98 | 36031.62 | 36036.52 |
| G 40.0 | 35319.39 | 35307.14 | 35319.39 | 35318.71 | 35292.90 | 35249.17 | 35264.01 | 35307.78 | 35281.47 | 35296.66 |
| G 45.0 | 34454.72 | 34514.66 | 34454.72 | 34456.17 | 34469.93 | 34399.73 | 34389.20 | 34446.57 | 34437.88 | 34442.51 |
| G 50.0 | 33403.68 | 33481.02 | 33403.68 | 33390.03 | 33411.90 | 33386.06 | 33372.14 | 33373.18 | 33368.61 | 33393.64 |
| G 55.0 | 32073.93 | 32082.15 | 32073.93 | 32070.15 | 32070.80 | 32014.04 | 32014.03 | 32068.79 | 32065.75 | 32041.08 |
| G 60.0 | 30288.52 | 30283.19 | 30288.52 | 30284.54 | 30263.34 | 30229.94 | 30231.71 | 30252.00 | 30228.67 | 30213.68 |
| G 65.0 | 27688.63 | 27714.93 | 27688.63 | 27710.93 | 27735.84 | 27681.41 | 27687.07 | 27740.96 | 27695.20 | 27682.15 |
| G 70.0 | 24180.10 | 24163.95 | 24180.10 | 24190.12 | 24188.94 | 24177.56 | 24175.55 | 24175.55 | 24154.95 | 24154.36 |
| G 75.0 | 19393.14 | 19397.73 | 19393.14 | 19381.82 | 19375.17 | 19405.76 | 19415.80 | 19407.58 | 19437.93 | 19455.17 |
| G 80.0 | 13229.38 | 13193.12 | 13229.38 | 13241.30 | 13243.37 | 13259.44 | 13302.59 | 13361.82 | 13409.68 | 13419.50 |
| G 85.0 | 6162.72 | 6049.77 | 6162.72 | 6232.64 | 6271.00 | 6341.53 | 6496.66 | 6679.47 | 6765.32 | 6781.34 |
| 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[®]

Luminaire

Code 05-E064-Z5-OU_4000K_2

Name MODIS

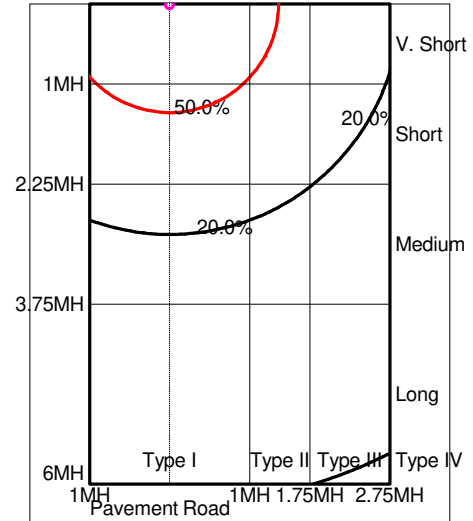
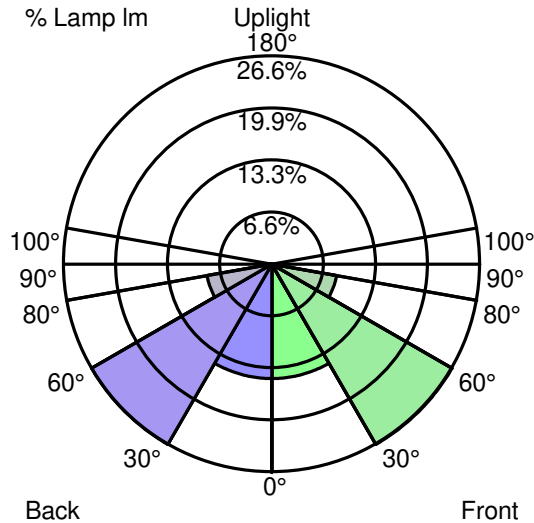
Measurement

Code 05-E064-Z5-OU_4000K_2

Name MODIS

| | | | | | | | |
|----------------|--------|-----------------|---------------|----------|---------------|------------|--------------------|
| Luminaire Flux | 729 lm | Luminaire Power | 11.6 W | Efficacy | 62.858 lm/W | Efficiency | 100.00% |
| Source Flux | 729 lm | Maximum value | 382.01 cd/klm | Position | C=0.00 G=1.00 | CG | Double Symmetrical |

US ROAD STANDARDS



Luminaire Classification System (LCS)

| LCS Zone | | Lumens | %Lamp | %Lum |
|---------------------|--------------|--------------------------|-------------------------------|----------------|
| FL | 0° -- 30° | 106.5 lm | 14.6 % | 14.6 % |
| FM | 30° -- 60° | 193.8 lm | 26.6 % | 26.6 % |
| FH | 60° -- 80° | 61.3 lm | 8.4 % | 8.4 % |
| FVH | 80° -- 90° | 3.0 lm | 0.4 % | 0.4 % |
| BL | 0° -- 30° | 106.5 lm | 14.6 % | 14.6 % |
| BM | 30° -- 60° | 193.8 lm | 26.6 % | 26.6 % |
| BH | 60° -- 80° | 61.3 lm | 8.4 % | 8.4 % |
| BVH | 80° -- 90° | 3.0 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 | | 729.2 lm | 100.0 % | 100.0 % |
| BUG B0 U0 G0 | | Type V Very Short | Quadrilateral Symmetry | |