

Luminaire

Code 90473L090

Name TTP 50 L1030 TUP 840 LO SENSOR

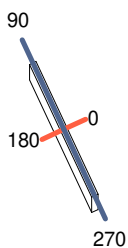
Measurem.

Code 4/7/2023

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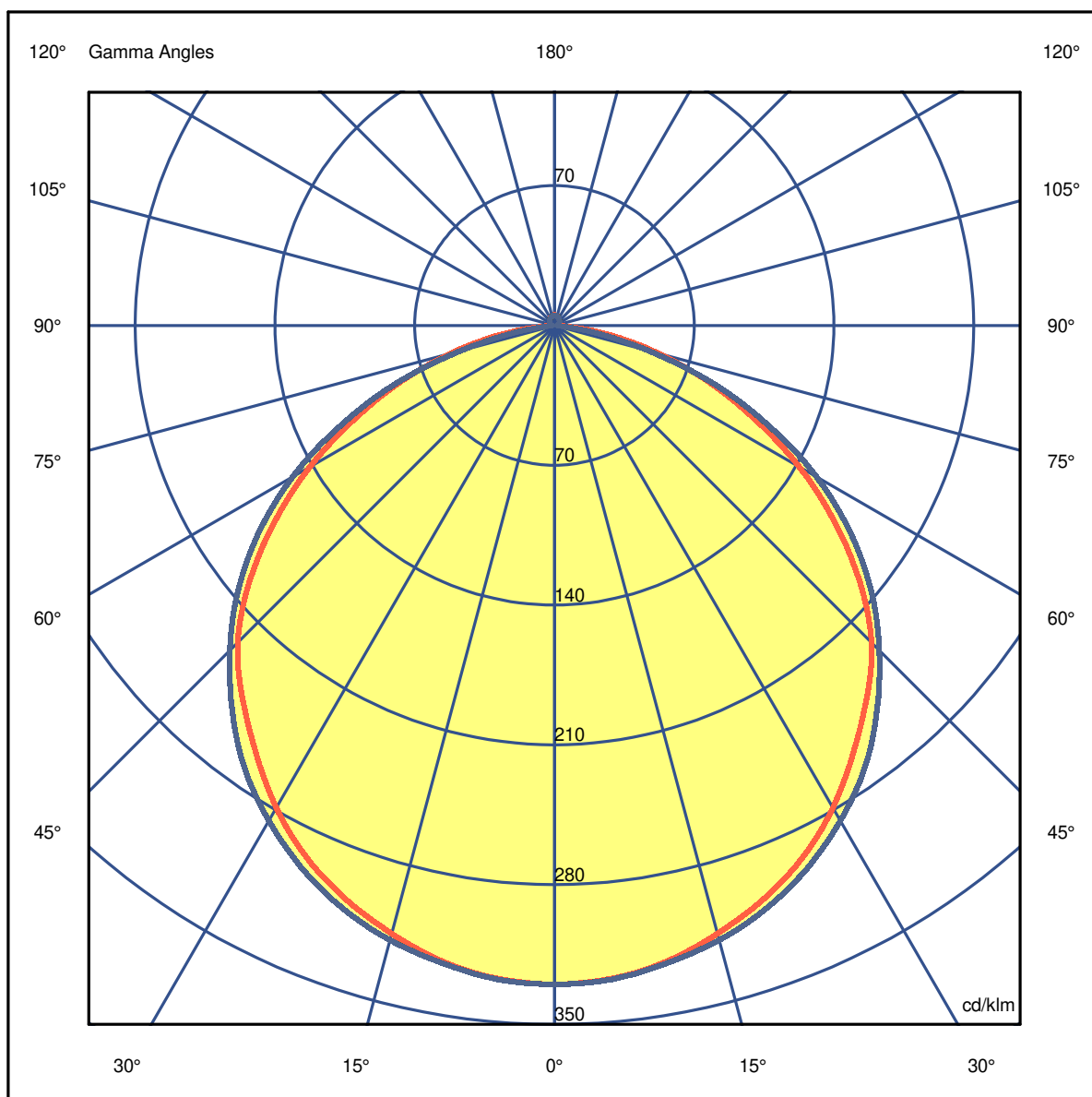
| | | | | | | | |
|----------------|---------|-----------------|---------------|----------|---------------|------------|--------------------|
| Luminaire Flux | 2804 lm | Luminaire Power | 16.5 W | Efficacy | 169.956 lm/W | Efficiency | 95.09% |
| Source Flux | 2949 lm | Maximum value | 330.00 cd/klm | Position | C=0.00 G=0.00 | CG | Double Symmetrical |

1030mm x 50mm



C Halfplanes

180.0 ————— 0.0
270.0 ————— 90.0



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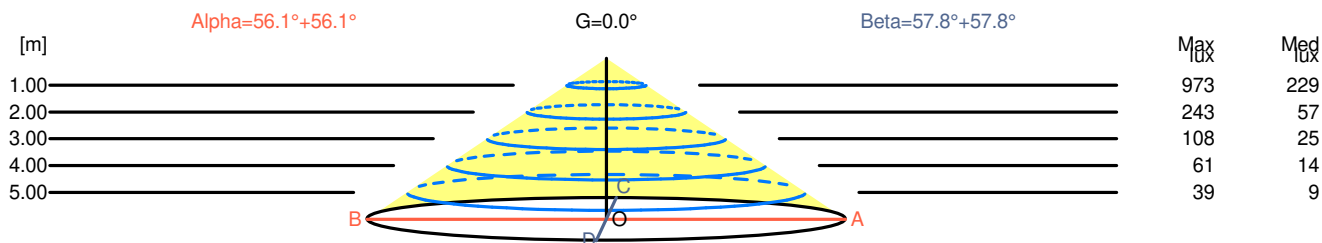
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|----------------|---------|-----------------|---------------|----------|---------------|------------|--------------------|
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| Source Flux | 2949 lm | Maximum value | 330.00 cd/klm | Position | C=0.00 G=0.00 | 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 | 1.49 | 2.97 | 4.46 | 5.95 | 7.43 | OC | 1.59 | 3.18 | 4.76 | 6.35 | 7.94 |
| OB | 1.49 | 2.97 | 4.46 | 5.95 | 7.43 | OD | 1.59 | 3.18 | 4.76 | 6.35 | 7.94 |

| | 0 | 5 | 15 | 25 | 35 | 45 | 55 | 65 | 75 | 85 |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| OA | 973.17 | 967.86 | 929.52 | 866.71 | 769.69 | 662.05 | 504.87 | 325.86 | 158.36 | 23.89 |
| OB | 973.17 | 967.86 | 929.52 | 866.71 | 769.69 | 662.05 | 504.87 | 325.86 | 158.36 | 23.89 |
| OC | 973.17 | 969.04 | 939.55 | 883.82 | 798.29 | 678.56 | 533.77 | 348.57 | 143.62 | 9.73 |
| OD | 973.17 | 969.04 | 939.55 | 883.82 | 798.29 | 678.56 | 533.77 | 348.57 | 143.62 | 9.73 |



| H[m] | D[m] | Max lux | Med lux | Alpha=56.1°+56.1° | G=0.0 |
|------|-------|---------|---------|-------------------|-------|
| 1.00 | 2.97 | 973 | 229 | | |
| 2.00 | 5.95 | 243 | 57 | | |
| 3.00 | 8.92 | 108 | 25 | | |
| 4.00 | 11.89 | 61 | 14 | | |
| 5.00 | 14.86 | 39 | 9 | | |

| H[m] | D[m] | Max lux | Med lux | Beta=57.8°+57.8° | G=0.0 |
|------|-------|---------|---------|------------------|-------|
| 1.00 | 3.18 | 973 | 229 | | |
| 2.00 | 6.35 | 243 | 57 | | |
| 3.00 | 9.53 | 108 | 25 | | |
| 4.00 | 12.70 | 61 | 14 | | |
| 5.00 | 15.88 | 39 | 9 | | |

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|----------------|---------|-----------------|---------------|----------|---------------|------------|--------------------|
| Luminaire Flux | 2804 lm | Luminaire Power | 16.5 W | Efficacy | 169.956 lm/W | Efficiency | 95.09% |
| Source Flux | 2949 lm | Maximum value | 330.00 cd/klm | Position | C=0.00 G=0.00 | CG | Double Symmetrical |

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 | 19.5 | 20.8 | 19.8 | 21.0 | 21.3 | 21.2 | 22.5 | 21.6 | 22.8 | 23.0 |
| x=2H y=3H | 20.4 | 21.6 | 20.8 | 21.9 | 22.2 | 22.5 | 23.7 | 22.9 | 24.0 | 24.3 |
| x=2H y=4H | 20.7 | 21.8 | 21.1 | 22.1 | 22.4 | 22.9 | 24.0 | 23.2 | 24.3 | 24.6 |
| x=2H y=6H | 20.8 | 21.8 | 21.2 | 22.2 | 22.5 | 23.0 | 24.0 | 23.4 | 24.4 | 24.7 |
| x=2H y=8H | 20.8 | 21.8 | 21.2 | 22.1 | 22.5 | 23.0 | 24.0 | 23.4 | 24.3 | 24.7 |
| x=2H y=12H | 20.8 | 21.7 | 21.2 | 22.1 | 22.4 | 23.0 | 23.9 | 23.4 | 24.3 | 24.7 |
| x=4H y=2H | 20.1 | 21.2 | 20.5 | 21.5 | 21.8 | 21.5 | 22.6 | 21.9 | 22.9 | 23.3 |
| x=4H y=3H | 21.2 | 22.1 | 21.6 | 22.5 | 22.8 | 22.9 | 23.9 | 23.3 | 24.2 | 24.6 |
| x=4H y=4H | 21.5 | 22.3 | 21.9 | 22.7 | 23.1 | 23.4 | 24.2 | 23.8 | 24.6 | 25.0 |
| x=4H y=6H | 21.7 | 22.4 | 22.1 | 22.8 | 23.3 | 23.6 | 24.3 | 24.0 | 24.7 | 25.1 |
| x=4H y=8H | 21.7 | 22.4 | 22.2 | 22.8 | 23.2 | 23.6 | 24.3 | 24.1 | 24.7 | 25.1 |
| x=4H y=12H | 21.7 | 22.3 | 22.2 | 22.7 | 23.2 | 23.6 | 24.2 | 24.1 | 24.6 | 25.1 |
| x=8H y=4H | 21.7 | 22.3 | 22.1 | 22.8 | 23.2 | 23.4 | 24.1 | 23.9 | 24.5 | 24.9 |
| x=8H y=6H | 21.9 | 22.4 | 22.4 | 22.9 | 23.4 | 23.7 | 24.2 | 24.2 | 24.7 | 25.2 |
| x=8H y=8H | 22.0 | 22.4 | 22.5 | 22.9 | 23.4 | 23.7 | 24.2 | 24.2 | 24.7 | 25.2 |
| x=8H y=12H | 22.0 | 22.4 | 22.5 | 22.9 | 23.4 | 23.7 | 24.1 | 24.3 | 24.6 | 25.2 |
| x=12H y=4H | 21.7 | 22.3 | 22.1 | 22.7 | 23.2 | 23.4 | 24.0 | 23.9 | 24.4 | 24.9 |
| x=12H y=6H | 21.9 | 22.4 | 22.4 | 22.9 | 23.4 | 23.7 | 24.1 | 24.2 | 24.6 | 25.1 |
| x=12H y=8H | 22.0 | 22.4 | 22.5 | 22.9 | 23.4 | 23.7 | 24.1 | 24.2 | 24.6 | 25.2 |

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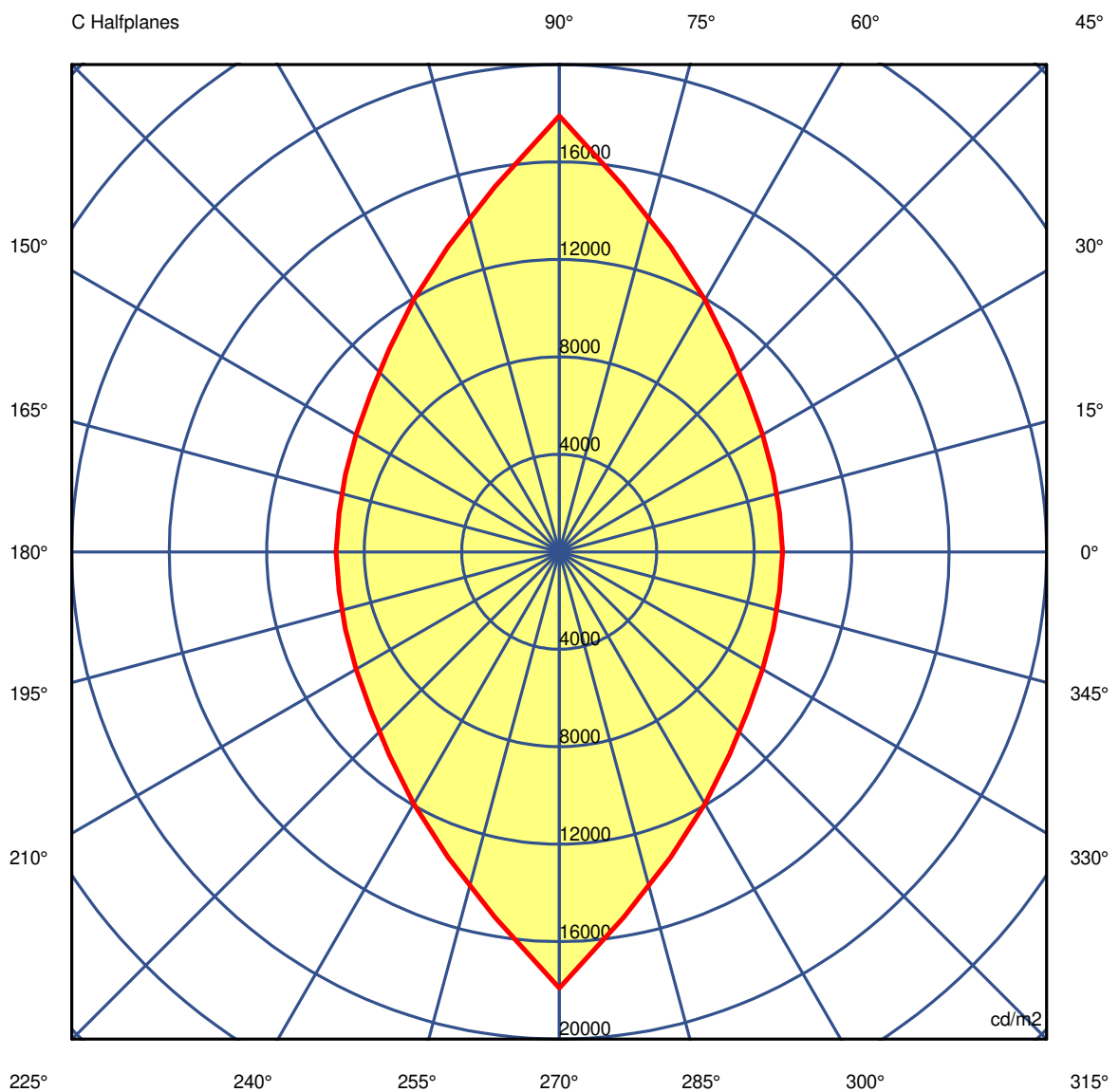
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|----------------|---------|-----------------|---------------|----------|---------------|-----------------------|--------|
| Luminaire Flux | 2804 lm | Luminaire Power | 16.5 W | Efficacy | 169.956 lm/W | Efficiency | 95.09% |
| Source Flux | 2949 lm | Maximum value | 330.00 cd/klm | Position | C=0.00 G=0.00 | CG Double Symmetrical | |

Luminance



45.0°

Luminaire

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Name TTP 50 L1030 TUP 840 LO SENSOR

Measur.

Code 4/7/2023

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| Luminaire Flux | 2804 lm | | Luminaire Power | | 16.5 W | | Efficacy | | 169.956 lm/W | | Efficiency | | 95.09% | |
|-----------------|---------|---------|-----------------|---------|---------------|---------|----------|---------|---------------|---------|------------|----------|--------------------|--|
| Source Flux | 2949 lm | | Maximum value | | 330.00 cd/klm | | Position | | C=0.00 G=0.00 | | 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 | 19044 | 19044 | 19044 | 19044 | 19044 | 19044 | 19044 | 19044 | 19044 | 19044 | 19044 | 19044 | 19044 | |
| G 5.0 | 17483 | 17487 | 17542 | 17639 | 17766 | 17943 | 18168 | 18386 | 18643 | 18955 | 18643 | 18386 | 18168 | |
| G 10.0 | 16106 | 16125 | 16217 | 16380 | 16636 | 16955 | 17335 | 17780 | 18283 | 18836 | 18283 | 17780 | 17335 | |
| G 15.0 | 14852 | 14873 | 15002 | 15248 | 15586 | 16032 | 16583 | 17218 | 17950 | 18789 | 17950 | 17218 | 16583 | |
| G 20.0 | 13764 | 13797 | 13933 | 14183 | 14582 | 15142 | 15843 | 16648 | 17602 | 18735 | 17602 | 16648 | 15843 | |
| G 25.0 | 12763 | 12784 | 12946 | 13246 | 13673 | 14287 | 15099 | 16071 | 17243 | 18658 | 17243 | 16071 | 15099 | |
| G 30.0 | 11778 | 11817 | 12010 | 12345 | 12799 | 13459 | 14361 | 15473 | 16848 | 18554 | 16848 | 15473 | 14361 | |
| G 35.0 | 10815 | 10853 | 11056 | 11421 | 11930 | 12628 | 13577 | 14827 | 16421 | 18440 | 16421 | 14827 | 13577 | |
| G 40.0 | 9966 | 10003 | 10170 | 10486 | 11034 | 11786 | 12778 | 14124 | 15887 | 18185 | 15887 | 14124 | 12778 | |
| G 45.0 | 9161 | 9183 | 9339 | 9636 | 10105 | 10864 | 11954 | 13340 | 15231 | 17904 | 15231 | 13340 | 11954 | |
| G 50.0 | 8172 | 8212 | 8420 | 8772 | 9225 | 9909 | 10934 | 12362 | 14452 | 17569 | 14452 | 12362 | 10934 | |
| G 55.0 | 7094 | 7133 | 7331 | 7720 | 8300 | 8965 | 9814 | 11242 | 13507 | 17022 | 13507 | 11242 | 9814 | |
| G 60.0 | 5982 | 6021 | 6173 | 6497 | 7071 | 7791 | 8665 | 9960 | 12195 | 16120 | 12195 | 9960 | 8665 | |
| G 65.0 | 4799 | 4792 | 4913 | 5186 | 5643 | 6403 | 7411 | 8514 | 10508 | 14608 | 10508 | 8514 | 7411 | |
| G 70.0 | 3683 | 3684 | 3794 | 4000 | 4253 | 4791 | 5712 | 6553 | 8278 | 12539 | 8278 | 6553 | 5712 | |
| G 75.0 | 2530 | 2536 | 2612 | 2775 | 3038 | 3384 | 3841 | 4561 | 5990 | 9182 | 5990 | 4561 | 3841 | |
| G 80.0 | 1465 | 1460 | 1509 | 1609 | 1743 | 1925 | 2193 | 2617 | 3354 | 5151 | 3354 | 2617 | 2193 | |
| G 85.0 | 431 | 454 | 466 | 492 | 589 | 750 | 929 | 1055 | 1158 | 1401 | 1158 | 1055 | 929 | |
| G 90.0 | 144 | 145 | 151 | 162 | 181 | 212 | 255 | 313 | 436 | 1416 | 436 | 313 | 255 | |

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| Luminaire Flux | 2804 lm | | Luminaire Power | | 16.5 W | | Efficacy | | 169.956 lm/W | | Efficiency | | 95.09% | |
| Source Flux | 2949 lm | | Maximum value | | 330.00 cd/klm | | Position | | C=0.00 G=0.00 | | 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 | 19044 | 19044 | 19044 | 19044 | 19044 | 19044 | 19044 | 19044 | 19044 | 19044 | 19044 | 19044 | 19044 | |
| G 5.0 | 17943 | 17766 | 17639 | 17542 | 17487 | 17483 | 17487 | 17542 | 17639 | 17766 | 17943 | 18168 | 18386 | |
| G 10.0 | 16955 | 16636 | 16380 | 16217 | 16125 | 16106 | 16125 | 16217 | 16380 | 16636 | 16955 | 17335 | 17780 | |
| G 15.0 | 16032 | 15586 | 15248 | 15002 | 14873 | 14852 | 14873 | 15002 | 15248 | 15586 | 16032 | 16583 | 17218 | |
| G 20.0 | 15142 | 14582 | 14183 | 13933 | 13797 | 13764 | 13797 | 13933 | 14183 | 14582 | 15142 | 15843 | 16648 | |
| G 25.0 | 14287 | 13673 | 13246 | 12946 | 12784 | 12763 | 12784 | 12946 | 13246 | 13673 | 14287 | 15099 | 16071 | |
| G 30.0 | 13459 | 12799 | 12345 | 12010 | 11817 | 11778 | 11817 | 12010 | 12345 | 12799 | 13459 | 14361 | 15473 | |
| G 35.0 | 12628 | 11930 | 11421 | 11056 | 10853 | 10815 | 10853 | 11056 | 11421 | 11930 | 12628 | 13577 | 14827 | |
| G 40.0 | 11786 | 11034 | 10486 | 10170 | 10003 | 9966 | 10003 | 10170 | 10486 | 11034 | 11786 | 12778 | 14124 | |
| G 45.0 | 10864 | 10105 | 9636 | 9339 | 9183 | 9161 | 9183 | 9339 | 9636 | 10105 | 10864 | 11954 | 13340 | |
| G 50.0 | 9909 | 9225 | 8772 | 8420 | 8212 | 8172 | 8212 | 8420 | 8772 | 9225 | 9909 | 10934 | 12362 | |
| G 55.0 | 8965 | 8300 | 7720 | 7331 | 7133 | 7094 | 7133 | 7331 | 7720 | 8300 | 8965 | 9814 | 11242 | |
| G 60.0 | 7791 | 7071 | 6497 | 6173 | 6021 | 5982 | 6021 | 6173 | 6497 | 7071 | 7791 | 8665 | 9960 | |
| G 65.0 | 6403 | 5643 | 5186 | 4913 | 4792 | 4799 | 4792 | 4913 | 5186 | 5643 | 6403 | 7411 | 8514 | |
| G 70.0 | 4791 | 4253 | 4000 | 3794 | 3684 | 3683 | 3684 | 3794 | 4000 | 4253 | 4791 | 5712 | 6553 | |
| G 75.0 | 3384 | 3038 | 2775 | 2612 | 2536 | 2530 | 2536 | 2612 | 2775 | 3038 | 3384 | 3841 | 4561 | |
| G 80.0 | 1925 | 1743 | 1609 | 1509 | 1460 | 1465 | 1460 | 1509 | 1609 | 1743 | 1925 | 2193 | 2617 | |
| G 85.0 | 750 | 589 | 492 | 466 | 454 | 431 | 454 | 466 | 492 | 589 | 750 | 929 | 1055 | |
| G 90.0 | 212 | 181 | 162 | 151 | 145 | 144 | 145 | 151 | 162 | 181 | 212 | 255 | 313 | |

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| Luminaire Flux | 2804 lm | Luminaire Power | 16.5 W | Efficacy | 169.956 lm/W | Efficiency | 95.09% |
|----------------|---------|-----------------|--------|----------|--------------|------------|--------|

| | | | | | | | |
|-------------|---------|---------------|---------------|----------|---------------|----|--------------------|
| Source Flux | 2949 lm | Maximum value | 330.00 cd/klm | Position | C=0.00 G=0.00 | 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 | 19044 | 19044 | 19044 | 19044 | 19044 | 19044 | 19044 | 19044 | 19044 | 19044 |
| G 5.0 | 18643 | 18955 | 18643 | 18386 | 18168 | 17943 | 17766 | 17639 | 17542 | 17487 |
| G 10.0 | 18283 | 18836 | 18283 | 17780 | 17335 | 16955 | 16636 | 16380 | 16217 | 16125 |
| G 15.0 | 17950 | 18789 | 17950 | 17218 | 16583 | 16032 | 15586 | 15248 | 15002 | 14873 |
| G 20.0 | 17602 | 18735 | 17602 | 16648 | 15843 | 15142 | 14582 | 14183 | 13933 | 13797 |
| G 25.0 | 17243 | 18658 | 17243 | 16071 | 15099 | 14287 | 13673 | 13246 | 12946 | 12784 |
| G 30.0 | 16848 | 18554 | 16848 | 15473 | 14361 | 13459 | 12799 | 12345 | 12010 | 11817 |
| G 35.0 | 16421 | 18440 | 16421 | 14827 | 13577 | 12628 | 11930 | 11421 | 11056 | 10853 |
| G 40.0 | 15887 | 18185 | 15887 | 14124 | 12778 | 11786 | 11034 | 10486 | 10170 | 10003 |
| G 45.0 | 15231 | 17904 | 15231 | 13340 | 11954 | 10864 | 10105 | 9636 | 9339 | 9183 |
| G 50.0 | 14452 | 17569 | 14452 | 12362 | 10934 | 9909 | 9225 | 8772 | 8420 | 8212 |
| G 55.0 | 13507 | 17022 | 13507 | 11242 | 9814 | 8965 | 8300 | 7720 | 7331 | 7133 |
| G 60.0 | 12195 | 16120 | 12195 | 9960 | 8665 | 7791 | 7071 | 6497 | 6173 | 6021 |
| G 65.0 | 10508 | 14608 | 10508 | 8514 | 7411 | 6403 | 5643 | 5186 | 4913 | 4792 |
| G 70.0 | 8278 | 12539 | 8278 | 6553 | 5712 | 4791 | 4253 | 4000 | 3794 | 3684 |
| G 75.0 | 5990 | 9182 | 5990 | 4561 | 3841 | 3384 | 3038 | 2775 | 2612 | 2536 |
| G 80.0 | 3354 | 5151 | 3354 | 2617 | 2193 | 1925 | 1743 | 1609 | 1509 | 1460 |
| G 85.0 | 1158 | 1401 | 1158 | 1055 | 929 | 750 | 589 | 492 | 466 | 454 |
| G 90.0 | 436 | 1416 | 436 | 313 | 255 | 212 | 181 | 162 | 151 | 145 |