

Luminaire

Code 90898L112

Name FLAT /E L12W30 BOPTICS 840 W LO

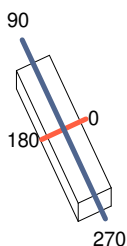
Measur.

Code 22/10/2024

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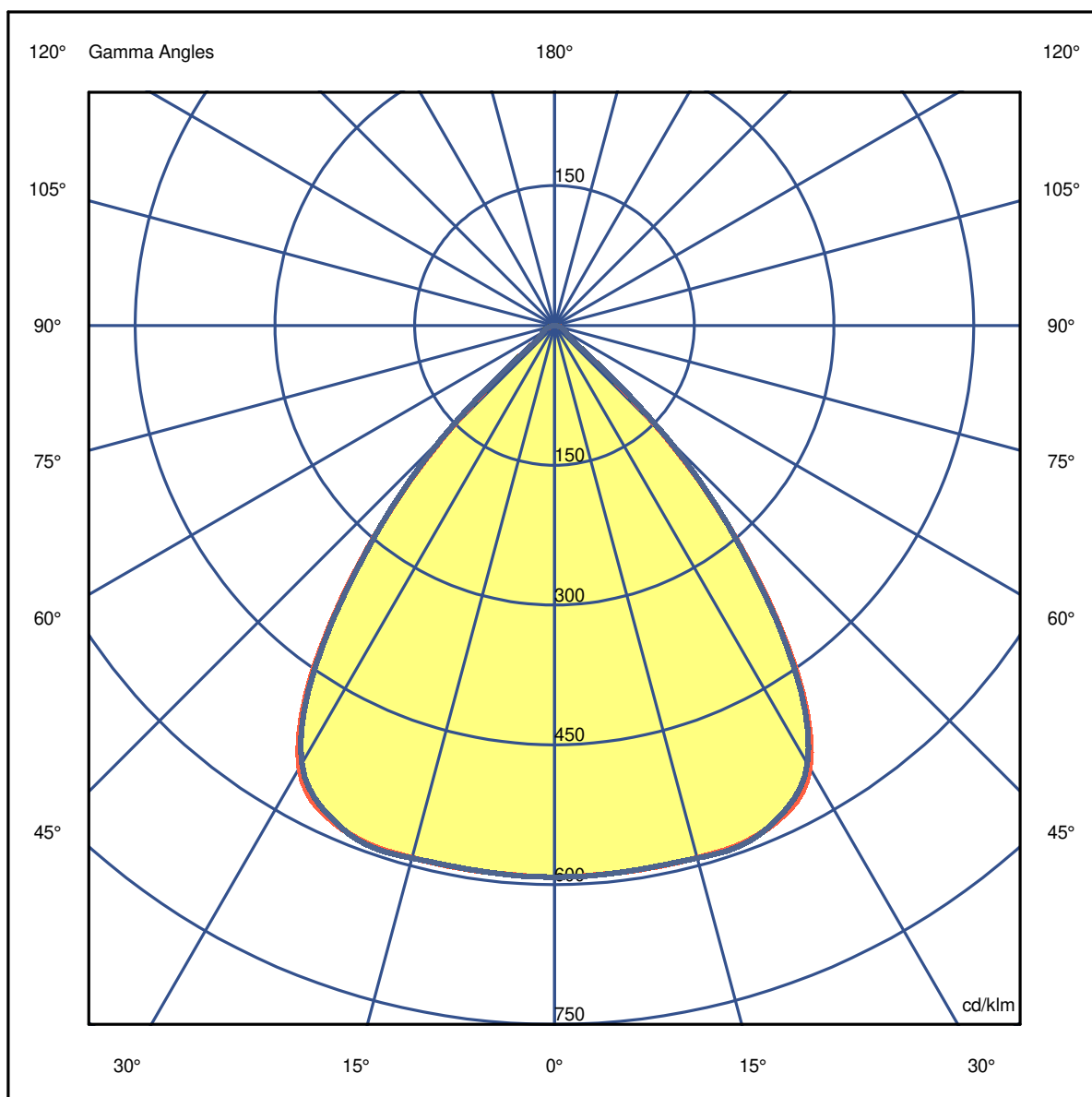
| | | | | | | | |
|----------------|---------|-----------------|---------------|----------|-----------------|------------|--------------------|
| Luminaire Flux | 3581 lm | Luminaire Power | 21.6 W | Efficacy | 165.466 lm/W | Efficiency | 97.30% |
| Source Flux | 3680 lm | Maximum value | 592.40 cd/klm | Position | C=90.00 G=20.00 | CG | Double Symmetrical |

1195mm x 295mm



C Halfplanes

180.0 ——— 0.0
270.0 ——— 90.0



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Measurem.

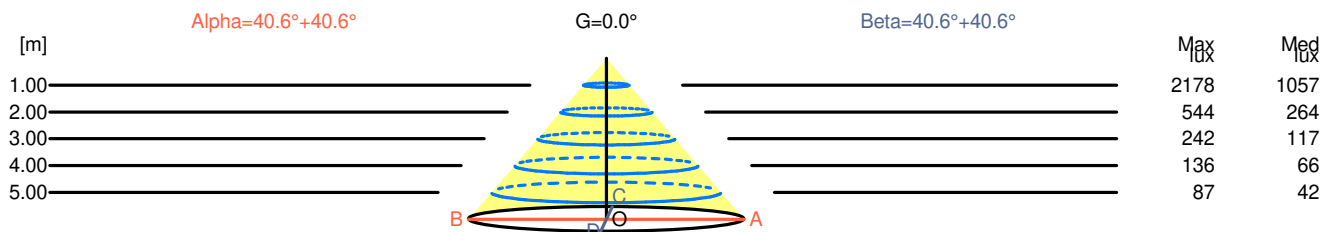
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Width at 50.00 % of Max Intensity

| | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|
| 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 | 0.86 | 1.71 | 2.57 | 3.43 | 4.28 | OC | 0.86 | 1.71 | 2.57 | 3.42 | 4.28 |
| OB | 0.86 | 1.71 | 2.57 | 3.43 | 4.28 | OD | 0.86 | 1.71 | 2.57 | 3.42 | 4.28 |

| | | | | | | | | | | | |
|----|---------|---------|---------|--------------------------------|---------|--------|-------|-------|-------|------|--|
| | | | | Luminous Intensities [cd/klm] | | | | | | | |
| | 0 | 5 | 15 | 25 | 35 | 45 | 55 | 65 | 75 | 85 | |
| OA | 2177.82 | 2175.25 | 2175.25 | 2136.98 | 1666.30 | 610.88 | 62.56 | 44.16 | 22.45 | 5.89 | |
| OB | 2177.82 | 2175.25 | 2175.25 | 2136.98 | 1666.30 | 610.88 | 62.56 | 44.16 | 22.45 | 5.89 | |
| OC | 2177.82 | 2176.35 | 2177.09 | 2126.67 | 1651.58 | 630.75 | 62.93 | 43.42 | 21.34 | 5.15 | |
| OD | 2177.82 | 2176.35 | 2177.09 | 2126.67 | 1651.58 | 630.75 | 62.93 | 43.42 | 21.34 | 5.15 | |



| H[m] | D[m] | Max lux | Med lux | Alpha=40.6°+40.6° | G=0.0 | |
|------|------|---------|---------|-------------------|-------|--|
| 1.00 | 1.71 | 2178 | 1057 | | | |
| 2.00 | 3.43 | 544 | 264 | | | |
| 3.00 | 5.14 | 242 | 117 | | | |
| 4.00 | 6.85 | 136 | 66 | | | |
| 5.00 | 8.57 | 87 | 42 | | | |

| H[m] | D[m] | Max lux | Med lux | Beta=40.6°+40.6° | G=0.0 | |
|------|------|---------|---------|------------------|-------|--|
| 1.00 | 1.71 | 2178 | 1057 | | | |
| 2.00 | 3.42 | 544 | 264 | | | |
| 3.00 | 5.13 | 242 | 117 | | | |
| 4.00 | 6.85 | 136 | 66 | | | |
| 5.00 | 8.56 | 87 | 42 | | | |

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|----------------|---------|-----------------|---------------|----------|-----------------|------------|--------------------|
| Luminaire Flux | 3581 lm | Luminaire Power | 21.6 W | Efficacy | 165.466 lm/W | Efficiency | 97.30% |
| Source Flux | 3680 lm | Maximum value | 592.40 cd/klm | Position | C=90.00 G=20.00 | 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 | 19.6 | 20.4 | 19.8 | 20.6 | 20.8 | 19.6 | 20.4 | 19.8 | 20.6 | 20.8 |
| x=2H y=3H | 19.5 | 20.2 | 19.8 | 20.5 | 20.7 | 19.5 | 20.3 | 19.8 | 20.5 | 20.7 |
| x=2H y=4H | 19.5 | 20.2 | 19.8 | 20.4 | 20.7 | 19.5 | 20.2 | 19.8 | 20.5 | 20.7 |
| x=2H y=6H | 19.4 | 20.1 | 19.8 | 20.4 | 20.7 | 19.4 | 20.1 | 19.8 | 20.4 | 20.7 |
| x=2H y=8H | 19.4 | 20.0 | 19.8 | 20.3 | 20.6 | 19.4 | 20.0 | 19.8 | 20.3 | 20.6 |
| x=2H y=12H | 19.4 | 20.0 | 19.7 | 20.3 | 20.6 | 19.4 | 20.0 | 19.7 | 20.3 | 20.6 |
| x=4H y=2H | 19.4 | 20.1 | 19.7 | 20.4 | 20.6 | 19.4 | 20.1 | 19.7 | 20.4 | 20.7 |
| x=4H y=3H | 19.4 | 20.0 | 19.7 | 20.3 | 20.6 | 19.4 | 20.0 | 19.7 | 20.3 | 20.6 |
| x=4H y=4H | 19.4 | 19.9 | 19.7 | 20.2 | 20.6 | 19.4 | 19.9 | 19.7 | 20.2 | 20.6 |
| x=4H y=6H | 19.3 | 19.8 | 19.8 | 20.1 | 20.5 | 19.3 | 19.8 | 19.7 | 20.1 | 20.5 |
| x=4H y=8H | 19.3 | 19.7 | 19.8 | 20.1 | 20.5 | 19.3 | 19.7 | 19.7 | 20.1 | 20.5 |
| x=4H y=12H | 19.3 | 19.6 | 19.7 | 20.0 | 20.5 | 19.3 | 19.6 | 19.7 | 20.0 | 20.5 |
| x=8H y=4H | 19.3 | 19.7 | 19.7 | 20.1 | 20.5 | 19.3 | 19.7 | 19.7 | 20.1 | 20.5 |
| x=8H y=6H | 19.3 | 19.6 | 19.7 | 20.0 | 20.5 | 19.3 | 19.6 | 19.7 | 20.0 | 20.4 |
| x=8H y=8H | 19.3 | 19.5 | 19.7 | 20.0 | 20.4 | 19.3 | 19.5 | 19.7 | 20.0 | 20.4 |
| x=8H y=12H | 19.3 | 19.5 | 19.7 | 19.9 | 20.4 | 19.2 | 19.5 | 19.7 | 19.9 | 20.4 |
| x=12H y=4H | 19.2 | 19.6 | 19.7 | 20.0 | 20.4 | 19.3 | 19.6 | 19.7 | 20.0 | 20.4 |
| x=12H y=6H | 19.2 | 19.5 | 19.7 | 19.9 | 20.4 | 19.2 | 19.5 | 19.7 | 19.9 | 20.4 |
| x=12H y=8H | 19.2 | 19.5 | 19.7 | 19.9 | 20.4 | 19.2 | 19.4 | 19.7 | 19.9 | 20.4 |

Luminaire

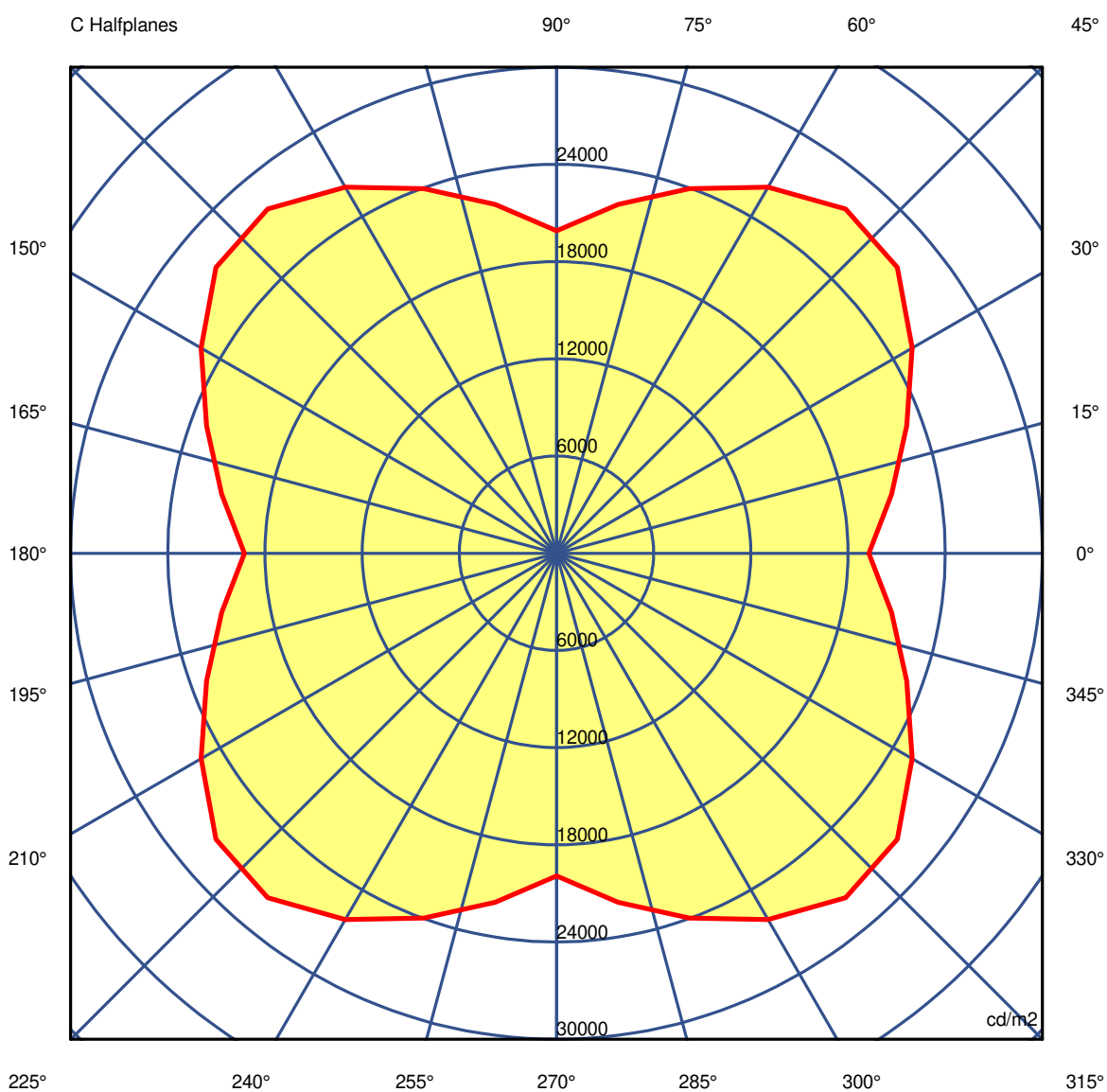
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| Luminaire Flux | 3581 lm | Luminaire Power | 21.6 W | Efficacy | 165.466 lm/W | Efficiency | 97.30% |
| Source Flux | 3680 lm | Maximum value | 592.40 cd/klm | Position | C=90.00 G=20.00 | CG | Double Symmetrical |

Luminance



45.0°

Luminaire

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| Luminaire Flux | 3581 lm | | Luminaire Power | | 21.6 W | | Efficacy | | 165.466 lm/W | | Efficiency | | 97.30% | |
|-----------------|---------|---------|-----------------|---------|---------------|---------|----------|---------|-----------------|---------|------------|----------|--------------------|--|
| Source Flux | 3680 lm | | Maximum value | | 592.40 cd/klm | | Position | | C=90.00 G=20.00 | | 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 | 48612 | 48612 | 48612 | 48612 | 48612 | 48612 | 48612 | 48612 | 48612 | 48612 | 48612 | 48612 | 48612 | |
| G 5.0 | 48740 | 48751 | 48761 | 48765 | 48760 | 48753 | 48748 | 48747 | 48752 | 48765 | 48752 | 48747 | 48748 | |
| G 10.0 | 49287 | 49257 | 49261 | 49279 | 49261 | 49231 | 49212 | 49208 | 49220 | 49245 | 49220 | 49208 | 49212 | |
| G 15.0 | 50267 | 50249 | 50261 | 50284 | 50266 | 50214 | 50182 | 50221 | 50274 | 50310 | 50274 | 50221 | 50182 | |
| G 20.0 | 51645 | 51655 | 51670 | 51653 | 51564 | 51529 | 51583 | 51647 | 51713 | 51784 | 51713 | 51647 | 51583 | |
| G 25.0 | 52632 | 52680 | 52699 | 52677 | 52628 | 52585 | 52541 | 52467 | 52407 | 52378 | 52407 | 52467 | 52541 | |
| G 30.0 | 51997 | 52010 | 52016 | 52016 | 52244 | 52124 | 51712 | 51662 | 51610 | 51475 | 51610 | 51662 | 51712 | |
| G 35.0 | 45406 | 46291 | 47457 | 48565 | 48935 | 48921 | 48484 | 47227 | 45942 | 45005 | 45942 | 47227 | 48484 | |
| G 40.0 | 33499 | 34042 | 35372 | 38313 | 40857 | 40781 | 38088 | 35032 | 33745 | 33316 | 33745 | 35032 | 38088 | |
| G 45.0 | 19284 | 20993 | 23000 | 25336 | 27467 | 27758 | 26103 | 23963 | 21873 | 19911 | 21873 | 23963 | 26103 | |
| G 50.0 | 3182 | 3770 | 5347 | 8562 | 10626 | 10676 | 8639 | 5308 | 3702 | 3156 | 3702 | 5308 | 8639 | |
| G 55.0 | 2435 | 2463 | 2587 | 2807 | 4397 | 4375 | 2764 | 2573 | 2468 | 2449 | 2468 | 2573 | 2764 | |
| G 60.0 | 2382 | 2382 | 2394 | 2464 | 2588 | 2580 | 2448 | 2388 | 2382 | 2382 | 2382 | 2388 | 2448 | |
| G 65.0 | 2332 | 2353 | 2396 | 2430 | 2405 | 2391 | 2391 | 2355 | 2315 | 2294 | 2315 | 2355 | 2391 | |
| G 70.0 | 2186 | 2210 | 2268 | 2306 | 2239 | 2209 | 2234 | 2192 | 2139 | 2113 | 2139 | 2192 | 2234 | |
| G 75.0 | 1936 | 2004 | 2049 | 2031 | 1937 | 1905 | 1936 | 1900 | 1855 | 1841 | 1855 | 1900 | 1936 | |
| G 80.0 | 1703 | 1740 | 1751 | 1703 | 1594 | 1565 | 1608 | 1586 | 1541 | 1514 | 1541 | 1586 | 1608 | |
| G 85.0 | 1508 | 1508 | 1449 | 1319 | 1319 | 1319 | 1319 | 1319 | 1319 | 1319 | 1319 | 1319 | 1319 | |
| G 90.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |

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| Luminaire Flux | 3581 lm | | Luminaire Power | | 21.6 W | | Efficacy | | 165.466 lm/W | | Efficiency | | 97.30% | |
| Source Flux | 3680 lm | | Maximum value | | 592.40 cd/klm | | Position | | C=90.00 G=20.00 | | 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 | 48612 | 48612 | 48612 | 48612 | 48612 | 48612 | 48612 | 48612 | 48612 | 48612 | 48612 | 48612 | 48612 | |
| G 5.0 | 48753 | 48760 | 48765 | 48761 | 48751 | 48740 | 48751 | 48761 | 48765 | 48760 | 48753 | 48748 | 48747 | |
| G 10.0 | 49231 | 49261 | 49279 | 49261 | 49257 | 49287 | 49257 | 49261 | 49279 | 49261 | 49231 | 49212 | 49208 | |
| G 15.0 | 50214 | 50266 | 50284 | 50261 | 50249 | 50267 | 50249 | 50261 | 50284 | 50266 | 50214 | 50182 | 50221 | |
| G 20.0 | 51529 | 51564 | 51653 | 51670 | 51655 | 51645 | 51655 | 51670 | 51653 | 51564 | 51529 | 51583 | 51647 | |
| G 25.0 | 52585 | 52628 | 52677 | 52699 | 52680 | 52632 | 52680 | 52699 | 52677 | 52628 | 52585 | 52541 | 52467 | |
| G 30.0 | 52124 | 52244 | 52016 | 52016 | 52010 | 51997 | 52010 | 52016 | 52016 | 52244 | 52124 | 51712 | 51662 | |
| G 35.0 | 48921 | 48935 | 48565 | 47457 | 46291 | 45406 | 46291 | 47457 | 48565 | 48935 | 48921 | 48484 | 47227 | |
| G 40.0 | 40781 | 40857 | 38313 | 35372 | 34042 | 33499 | 34042 | 35372 | 38313 | 40857 | 40781 | 38088 | 35032 | |
| G 45.0 | 27758 | 27467 | 25336 | 23000 | 20993 | 19284 | 20993 | 23000 | 25336 | 27467 | 27758 | 26103 | 23963 | |
| G 50.0 | 10676 | 10626 | 8562 | 5347 | 3770 | 3182 | 3770 | 5347 | 8562 | 10626 | 10676 | 8639 | 5308 | |
| G 55.0 | 4375 | 4397 | 2807 | 2587 | 2463 | 2435 | 2463 | 2587 | 2807 | 4397 | 4375 | 2764 | 2573 | |
| G 60.0 | 2580 | 2588 | 2464 | 2394 | 2382 | 2382 | 2382 | 2394 | 2464 | 2588 | 2580 | 2448 | 2388 | |
| G 65.0 | 2391 | 2405 | 2430 | 2396 | 2353 | 2332 | 2353 | 2396 | 2430 | 2405 | 2391 | 2391 | 2355 | |
| G 70.0 | 2209 | 2239 | 2306 | 2268 | 2210 | 2186 | 2210 | 2268 | 2306 | 2239 | 2209 | 2234 | 2192 | |
| G 75.0 | 1905 | 1937 | 2031 | 2049 | 2004 | 1936 | 2004 | 2049 | 2031 | 1937 | 1905 | 1936 | 1900 | |
| G 80.0 | 1565 | 1594 | 1703 | 1751 | 1740 | 1703 | 1740 | 1751 | 1703 | 1594 | 1565 | 1608 | 1586 | |
| G 85.0 | 1319 | 1319 | 1319 | 1449 | 1508 | 1508 | 1508 | 1449 | 1319 | 1319 | 1319 | 1319 | 1319 | |
| G 90.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |

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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 | 48612 | 48612 | 48612 | 48612 | 48612 | 48612 | 48612 | 48612 | 48612 | 48612 |
| G 5.0 | 48752 | 48765 | 48752 | 48747 | 48748 | 48753 | 48760 | 48765 | 48761 | 48751 |
| G 10.0 | 49220 | 49245 | 49220 | 49208 | 49212 | 49231 | 49261 | 49279 | 49261 | 49257 |
| G 15.0 | 50274 | 50310 | 50274 | 50221 | 50182 | 50214 | 50266 | 50284 | 50261 | 50249 |
| G 20.0 | 51713 | 51784 | 51713 | 51647 | 51583 | 51529 | 51564 | 51653 | 51670 | 51655 |
| G 25.0 | 52407 | 52378 | 52407 | 52467 | 52541 | 52585 | 52628 | 52677 | 52699 | 52680 |
| G 30.0 | 51610 | 51475 | 51610 | 51662 | 51712 | 52124 | 52244 | 52016 | 52016 | 52010 |
| G 35.0 | 45942 | 45005 | 45942 | 47227 | 48484 | 48921 | 48935 | 48565 | 47457 | 46291 |
| G 40.0 | 33745 | 33316 | 33745 | 35032 | 38088 | 40781 | 40857 | 38313 | 35372 | 34042 |
| G 45.0 | 21873 | 19911 | 21873 | 23963 | 26103 | 27758 | 27467 | 25336 | 23000 | 20993 |
| G 50.0 | 3702 | 3156 | 3702 | 5308 | 8639 | 10676 | 10626 | 8562 | 5347 | 3770 |
| G 55.0 | 2468 | 2449 | 2468 | 2573 | 2764 | 4375 | 4397 | 2807 | 2587 | 2463 |
| G 60.0 | 2382 | 2382 | 2382 | 2388 | 2448 | 2580 | 2588 | 2464 | 2394 | 2382 |
| G 65.0 | 2315 | 2294 | 2315 | 2355 | 2391 | 2391 | 2405 | 2430 | 2396 | 2353 |
| G 70.0 | 2139 | 2113 | 2139 | 2192 | 2234 | 2209 | 2239 | 2306 | 2268 | 2210 |
| G 75.0 | 1855 | 1841 | 1855 | 1900 | 1936 | 1905 | 1937 | 2031 | 2049 | 2004 |
| G 80.0 | 1541 | 1514 | 1541 | 1586 | 1608 | 1565 | 1594 | 1703 | 1751 | 1740 |
| G 85.0 | 1319 | 1319 | 1319 | 1319 | 1319 | 1319 | 1319 | 1319 | 1449 | 1508 |
| G 90.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |