

Luminaire

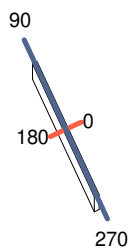
Code 90473L150
Name TTP 50 L1460 TUP 840 LO

Measurem.

Code 4/7/2023
Name TTP 50 L1460 TUP 840 LO

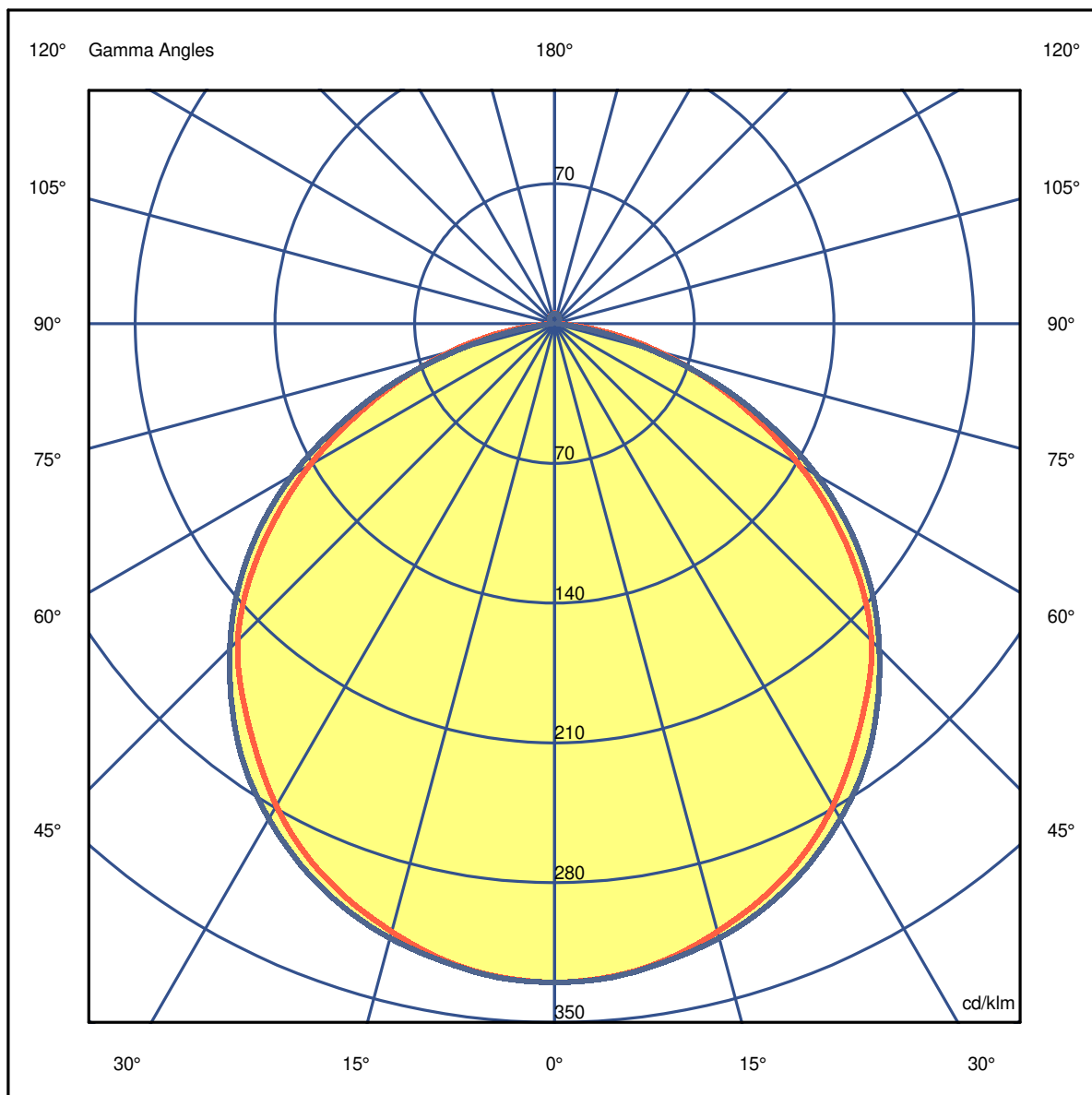
| | | | | | | | |
|----------------|---------|-----------------|---------------|----------|---------------|------------|--------------------|
| Luminaire Flux | 4674 lm | Luminaire Power | 26.1 W | Efficacy | 179.416 lm/W | Efficiency | 95.09% |
| Source Flux | 4915 lm | Maximum value | 330.00 cd/klm | Position | C=0.00 G=0.00 | CG | Double Symmetrical |

1460mm x 50mm



C Halfplanes

180.0 — 0.0
270.0 — 90.0



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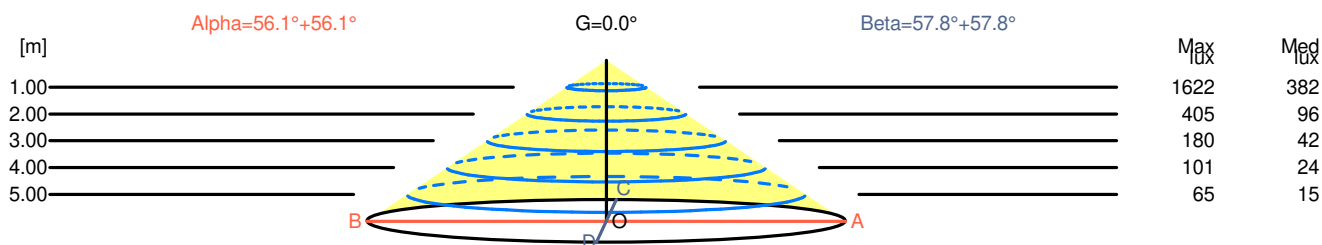
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|----------------|---------|-----------------|---------------|----------|---------------|------------|--------------------|
| Luminaire Flux | 4674 lm | Luminaire Power | 26.1 W | Efficacy | 179.416 lm/W | Efficiency | 95.09% |
| Source Flux | 4915 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 |

Luminous Intensities [cd/klm]

| | 0 | 5 | 15 | 25 | 35 | 45 | 55 | 65 | 75 | 85 |
|----|---------|---------|---------|---------|---------|---------|--------|--------|--------|-------|
| OA | 1621.95 | 1613.10 | 1549.21 | 1444.52 | 1282.82 | 1103.42 | 841.45 | 543.11 | 263.94 | 39.81 |
| OB | 1621.95 | 1613.10 | 1549.21 | 1444.52 | 1282.82 | 1103.42 | 841.45 | 543.11 | 263.94 | 39.81 |
| OC | 1621.95 | 1615.07 | 1565.92 | 1473.03 | 1330.49 | 1130.94 | 889.62 | 580.95 | 239.36 | 16.22 |
| OD | 1621.95 | 1615.07 | 1565.92 | 1473.03 | 1330.49 | 1130.94 | 889.62 | 580.95 | 239.36 | 16.22 |



| H[m] | D[m] | Max lux | Med lux | Alpha=56.1°+56.1° | G=0.0 |  |
|------|-------|---------|---------|-------------------|-------|---|
| 1.00 | 2.97 | 1622 | 382 | | | |
| 2.00 | 5.95 | 405 | 96 | | | |
| 3.00 | 8.92 | 180 | 42 | | | |
| 4.00 | 11.89 | 101 | 24 | | | |
| 5.00 | 14.86 | 65 | 15 | | | |

| H[m] | D[m] | Max lux | Med lux | Beta=57.8°+57.8° | G=0.0 |  |
|------|-------|---------|---------|------------------|-------|---|
| 1.00 | 3.18 | 1622 | 382 | | | |
| 2.00 | 6.35 | 405 | 96 | | | |
| 3.00 | 9.53 | 180 | 42 | | | |
| 4.00 | 12.70 | 101 | 24 | | | |
| 5.00 | 15.88 | 65 | 15 | | | |

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| Luminaire Flux | 4674 lm | Luminaire Power | 26.1 W | Efficacy | 179.416 lm/W | Efficiency | 95.09% |
| Source Flux | 4915 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 | 20.1 | 21.3 | 20.4 | 21.6 | 21.9 | 21.8 | 23.1 | 22.2 | 23.4 | 23.6 |
| x=2H y=3H | 21.0 | 22.1 | 21.3 | 22.5 | 22.8 | 23.1 | 24.3 | 23.5 | 24.6 | 24.9 |
| x=2H y=4H | 21.2 | 22.3 | 21.6 | 22.6 | 23.0 | 23.5 | 24.6 | 23.9 | 24.9 | 25.2 |
| x=2H y=6H | 21.4 | 22.4 | 21.8 | 22.7 | 23.1 | 23.7 | 24.7 | 24.0 | 25.0 | 25.3 |
| x=2H y=8H | 21.4 | 22.3 | 21.8 | 22.7 | 23.1 | 23.6 | 24.6 | 24.0 | 25.0 | 25.3 |
| x=2H y=12H | 21.3 | 22.3 | 21.8 | 22.6 | 23.0 | 23.6 | 24.6 | 24.0 | 24.9 | 25.3 |
| x=4H y=2H | 20.7 | 21.8 | 21.1 | 22.1 | 22.4 | 22.1 | 23.2 | 22.5 | 23.5 | 23.9 |
| x=4H y=3H | 21.7 | 22.7 | 22.1 | 23.0 | 23.4 | 23.5 | 24.5 | 23.9 | 24.8 | 25.2 |
| x=4H y=4H | 22.1 | 22.9 | 22.5 | 23.3 | 23.7 | 24.0 | 24.8 | 24.4 | 25.2 | 25.6 |
| x=4H y=6H | 22.3 | 23.0 | 22.7 | 23.4 | 23.8 | 24.2 | 24.9 | 24.7 | 25.3 | 25.8 |
| x=4H y=8H | 22.3 | 22.9 | 22.7 | 23.4 | 23.8 | 24.2 | 24.9 | 24.7 | 25.3 | 25.8 |
| x=4H y=12H | 22.3 | 22.9 | 22.7 | 23.3 | 23.8 | 24.2 | 24.8 | 24.7 | 25.3 | 25.7 |
| x=8H y=4H | 22.2 | 22.9 | 22.7 | 23.3 | 23.8 | 24.0 | 24.7 | 24.5 | 25.1 | 25.6 |
| x=8H y=6H | 22.5 | 23.0 | 23.0 | 23.5 | 24.0 | 24.3 | 24.8 | 24.8 | 25.3 | 25.8 |
| x=8H y=8H | 22.5 | 23.0 | 23.0 | 23.5 | 24.0 | 24.3 | 24.8 | 24.9 | 25.3 | 25.8 |
| x=8H y=12H | 22.5 | 22.9 | 23.1 | 23.4 | 24.0 | 24.3 | 24.7 | 24.9 | 25.3 | 25.8 |
| x=12H y=4H | 22.2 | 22.8 | 22.7 | 23.3 | 23.7 | 24.0 | 24.6 | 24.5 | 25.0 | 25.5 |
| x=12H y=6H | 22.5 | 23.0 | 23.0 | 23.4 | 23.9 | 24.3 | 24.8 | 24.8 | 25.2 | 25.7 |
| x=12H y=8H | 22.5 | 22.9 | 23.1 | 23.4 | 24.0 | 24.3 | 24.7 | 24.9 | 25.2 | 25.8 |

Luminaire

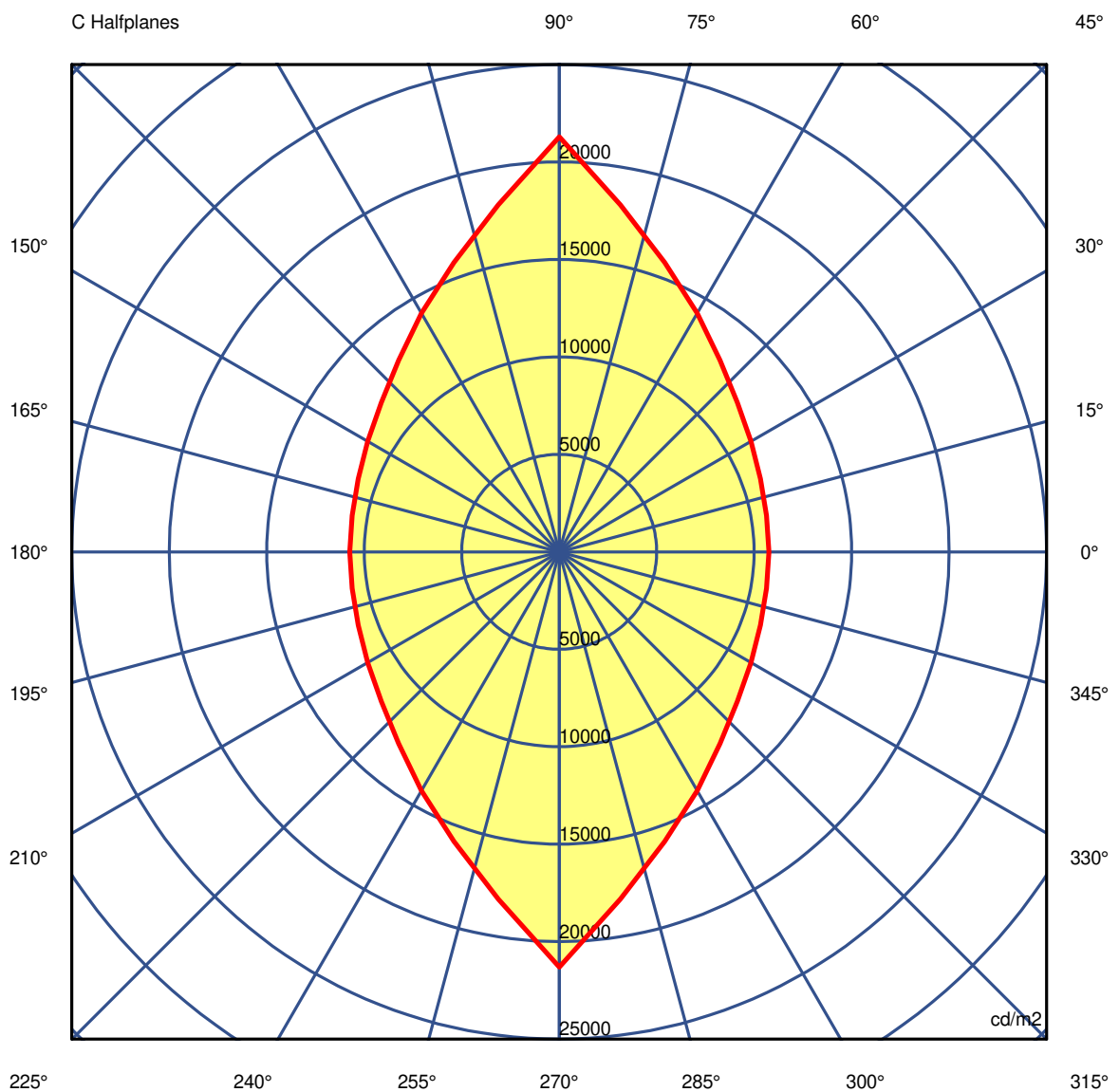
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|----------------|---------|-----------------|---------------|----------|---------------|-----------------------|--------|
| Luminaire Flux | 4674 lm | Luminaire Power | 26.1 W | Efficacy | 179.416 lm/W | Efficiency | 95.09% |
| Source Flux | 4915 lm | Maximum value | 330.00 cd/klm | Position | C=0.00 G=0.00 | CG Double Symmetrical | |

Luminance



45.0°

LuminaireCode 90473L150
Name TTP 50 L1460 TUP 840 LO**Measurem.**Code 4/7/2023
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| | | | | | | | | | | | | | | |
|--------------------------------|---------|---------|-----------------|---------|---------------|---------|----------|---------|---------------|---------|------------|----------|--------------------|--|
| Luminaire Flux | 4674 lm | | Luminaire Power | | 26.1 W | | Efficacy | | 179.416 lm/W | | Efficiency | | 95.09% | |
| Source Flux | 4915 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 | 22341 | 22341 | 22341 | 22341 | 22341 | 22341 | 22341 | 22341 | 22341 | 22341 | 22341 | 22341 | 22341 | |
| G 5.0 | 20510 | 20518 | 20587 | 20704 | 20857 | 21069 | 21335 | 21593 | 21897 | 22264 | 21897 | 21593 | 21335 | |
| G 10.0 | 18894 | 18924 | 19038 | 19236 | 19544 | 19924 | 20376 | 20904 | 21500 | 22152 | 21500 | 20904 | 20376 | |
| G 15.0 | 17423 | 17457 | 17617 | 17915 | 18322 | 18855 | 19511 | 20265 | 21134 | 22126 | 21134 | 20265 | 19511 | |
| G 20.0 | 16147 | 16197 | 16366 | 16672 | 17151 | 17821 | 18657 | 19615 | 20749 | 22093 | 20749 | 19615 | 18657 | |
| G 25.0 | 14972 | 15008 | 15211 | 15576 | 16091 | 16826 | 17796 | 18955 | 20350 | 22033 | 20350 | 18955 | 17796 | |
| G 30.0 | 13817 | 13875 | 14114 | 14522 | 15070 | 15862 | 16941 | 18269 | 19910 | 21945 | 19910 | 18269 | 16941 | |
| G 35.0 | 12687 | 12745 | 12996 | 13440 | 14053 | 14893 | 16029 | 17524 | 19432 | 21846 | 19432 | 17524 | 16029 | |
| G 40.0 | 11691 | 11749 | 11958 | 12344 | 13004 | 13909 | 15099 | 16712 | 18827 | 21585 | 18827 | 16712 | 15099 | |
| G 45.0 | 10747 | 10786 | 10984 | 11347 | 11916 | 12829 | 14138 | 15805 | 18079 | 21297 | 18079 | 15805 | 14138 | |
| G 50.0 | 9587 | 9647 | 9905 | 10334 | 10883 | 11709 | 12944 | 14665 | 17185 | 20952 | 17185 | 14665 | 12944 | |
| G 55.0 | 8322 | 8380 | 8626 | 9097 | 9798 | 10602 | 11631 | 13355 | 16094 | 20362 | 16094 | 13355 | 11631 | |
| G 60.0 | 7018 | 7074 | 7265 | 7659 | 8352 | 9221 | 10280 | 11851 | 14566 | 19358 | 14566 | 11851 | 10280 | |
| G 65.0 | 5629 | 5631 | 5784 | 6116 | 6669 | 7584 | 8804 | 10149 | 12587 | 17632 | 12587 | 10149 | 8804 | |
| G 70.0 | 4321 | 4330 | 4467 | 4719 | 5030 | 5680 | 6795 | 7830 | 9953 | 15244 | 9953 | 7830 | 6795 | |
| G 75.0 | 2968 | 2981 | 3077 | 3275 | 3595 | 4016 | 4577 | 5464 | 7237 | 11288 | 7237 | 5464 | 4577 | |
| G 80.0 | 1718 | 1716 | 1778 | 1901 | 2064 | 2288 | 2619 | 3146 | 4081 | 6458 | 4081 | 3146 | 2619 | |
| G 85.0 | 506 | 533 | 549 | 581 | 698 | 893 | 1112 | 1275 | 1424 | 1839 | 1424 | 1275 | 1112 | |
| G 90.0 | 169 | 171 | 178 | 192 | 215 | 252 | 307 | 380 | 547 | 2359 | 547 | 380 | 307 | |

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| Luminaire Flux | 4674 lm | | Luminaire Power | | 26.1 W | | Efficacy | | 179.416 lm/W | | Efficiency | | 95.09% | |
| Source Flux | 4915 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 | 22341 | 22341 | 22341 | 22341 | 22341 | 22341 | 22341 | 22341 | 22341 | 22341 | 22341 | 22341 | 22341 | |
| G 5.0 | 21069 | 20857 | 20704 | 20587 | 20518 | 20510 | 20518 | 20587 | 20704 | 20857 | 21069 | 21335 | 21593 | |
| G 10.0 | 19924 | 19544 | 19236 | 19038 | 18924 | 18894 | 18924 | 19038 | 19236 | 19544 | 19924 | 20376 | 20904 | |
| G 15.0 | 18855 | 18322 | 17915 | 17617 | 17457 | 17423 | 17457 | 17617 | 17915 | 18322 | 18855 | 19511 | 20265 | |
| G 20.0 | 17821 | 17151 | 16672 | 16366 | 16197 | 16147 | 16197 | 16366 | 16672 | 17151 | 17821 | 18657 | 19615 | |
| G 25.0 | 16826 | 16091 | 15576 | 15211 | 15008 | 14972 | 15008 | 15211 | 15576 | 16091 | 16826 | 17796 | 18955 | |
| G 30.0 | 15862 | 15070 | 14522 | 14114 | 13875 | 13817 | 13875 | 14114 | 14522 | 15070 | 15862 | 16941 | 18269 | |
| G 35.0 | 14893 | 14053 | 13440 | 12996 | 12745 | 12687 | 12745 | 12996 | 13440 | 14053 | 14893 | 16029 | 17524 | |
| G 40.0 | 13909 | 13004 | 12344 | 11958 | 11749 | 11691 | 11749 | 11958 | 12344 | 13004 | 13909 | 15099 | 16712 | |
| G 45.0 | 12829 | 11916 | 11347 | 10984 | 10786 | 10747 | 10786 | 10984 | 11347 | 11916 | 12829 | 14138 | 15805 | |
| G 50.0 | 11709 | 10883 | 10334 | 9905 | 9647 | 9587 | 9647 | 9905 | 10334 | 10883 | 11709 | 12944 | 14665 | |
| G 55.0 | 10602 | 9798 | 9097 | 8626 | 8380 | 8322 | 8380 | 8626 | 9097 | 9798 | 10602 | 11631 | 13355 | |
| G 60.0 | 9221 | 8352 | 7659 | 7265 | 7074 | 7018 | 7074 | 7265 | 7659 | 8352 | 9221 | 10280 | 11851 | |
| G 65.0 | 7584 | 6669 | 6116 | 5784 | 5631 | 5629 | 5631 | 5784 | 6116 | 6669 | 7584 | 8804 | 10149 | |
| G 70.0 | 5680 | 5030 | 4719 | 4467 | 4330 | 4321 | 4330 | 4467 | 4719 | 5030 | 5680 | 6795 | 7830 | |
| G 75.0 | 4016 | 3595 | 3275 | 3077 | 2981 | 2968 | 2981 | 3077 | 3275 | 3595 | 4016 | 4577 | 5464 | |
| G 80.0 | 2288 | 2064 | 1901 | 1778 | 1716 | 1718 | 1716 | 1778 | 1901 | 2064 | 2288 | 2619 | 3146 | |
| G 85.0 | 893 | 698 | 581 | 549 | 533 | 506 | 533 | 549 | 581 | 698 | 893 | 1112 | 1275 | |
| G 90.0 | 252 | 215 | 192 | 178 | 171 | 169 | 171 | 178 | 192 | 215 | 252 | 307 | 380 | |

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| Source Flux | 4915 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 | 22341 | 22341 | 22341 | 22341 | 22341 | 22341 | 22341 | 22341 | 22341 | 22341 |
| G 5.0 | 21897 | 22264 | 21897 | 21593 | 21335 | 21069 | 20857 | 20704 | 20587 | 20518 |
| G 10.0 | 21500 | 22152 | 21500 | 20904 | 20376 | 19924 | 19544 | 19236 | 19038 | 18924 |
| G 15.0 | 21134 | 22126 | 21134 | 20265 | 19511 | 18855 | 18322 | 17915 | 17617 | 17457 |
| G 20.0 | 20749 | 22093 | 20749 | 19615 | 18657 | 17821 | 17151 | 16672 | 16366 | 16197 |
| G 25.0 | 20350 | 22033 | 20350 | 18955 | 17796 | 16826 | 16091 | 15576 | 15211 | 15008 |
| G 30.0 | 19910 | 21945 | 19910 | 18269 | 16941 | 15862 | 15070 | 14522 | 14114 | 13875 |
| G 35.0 | 19432 | 21846 | 19432 | 17524 | 16029 | 14893 | 14053 | 13440 | 12996 | 12745 |
| G 40.0 | 18827 | 21585 | 18827 | 16712 | 15099 | 13909 | 13004 | 12344 | 11958 | 11749 |
| G 45.0 | 18079 | 21297 | 18079 | 15805 | 14138 | 12829 | 11916 | 11347 | 10984 | 10786 |
| G 50.0 | 17185 | 20952 | 17185 | 14665 | 12944 | 11709 | 10883 | 10334 | 9905 | 9647 |
| G 55.0 | 16094 | 20362 | 16094 | 13355 | 11631 | 10602 | 9798 | 9097 | 8626 | 8380 |
| G 60.0 | 14566 | 19358 | 14566 | 11851 | 10280 | 9221 | 8352 | 7659 | 7265 | 7074 |
| G 65.0 | 12587 | 17632 | 12587 | 10149 | 8804 | 7584 | 6669 | 6116 | 5784 | 5631 |
| G 70.0 | 9953 | 15244 | 9953 | 7830 | 6795 | 5680 | 5030 | 4719 | 4467 | 4330 |
| G 75.0 | 7237 | 11288 | 7237 | 5464 | 4577 | 4016 | 3595 | 3275 | 3077 | 2981 |
| G 80.0 | 4081 | 6458 | 4081 | 3146 | 2619 | 2288 | 2064 | 1901 | 1778 | 1716 |
| G 85.0 | 1424 | 1839 | 1424 | 1275 | 1112 | 893 | 698 | 581 | 549 | 533 |
| G 90.0 | 547 | 2359 | 547 | 380 | 307 | 252 | 215 | 192 | 178 | 171 |