

Luminaire

Code 90220L101
Name VISA Q110 840 5°+90° LO

Measurem.

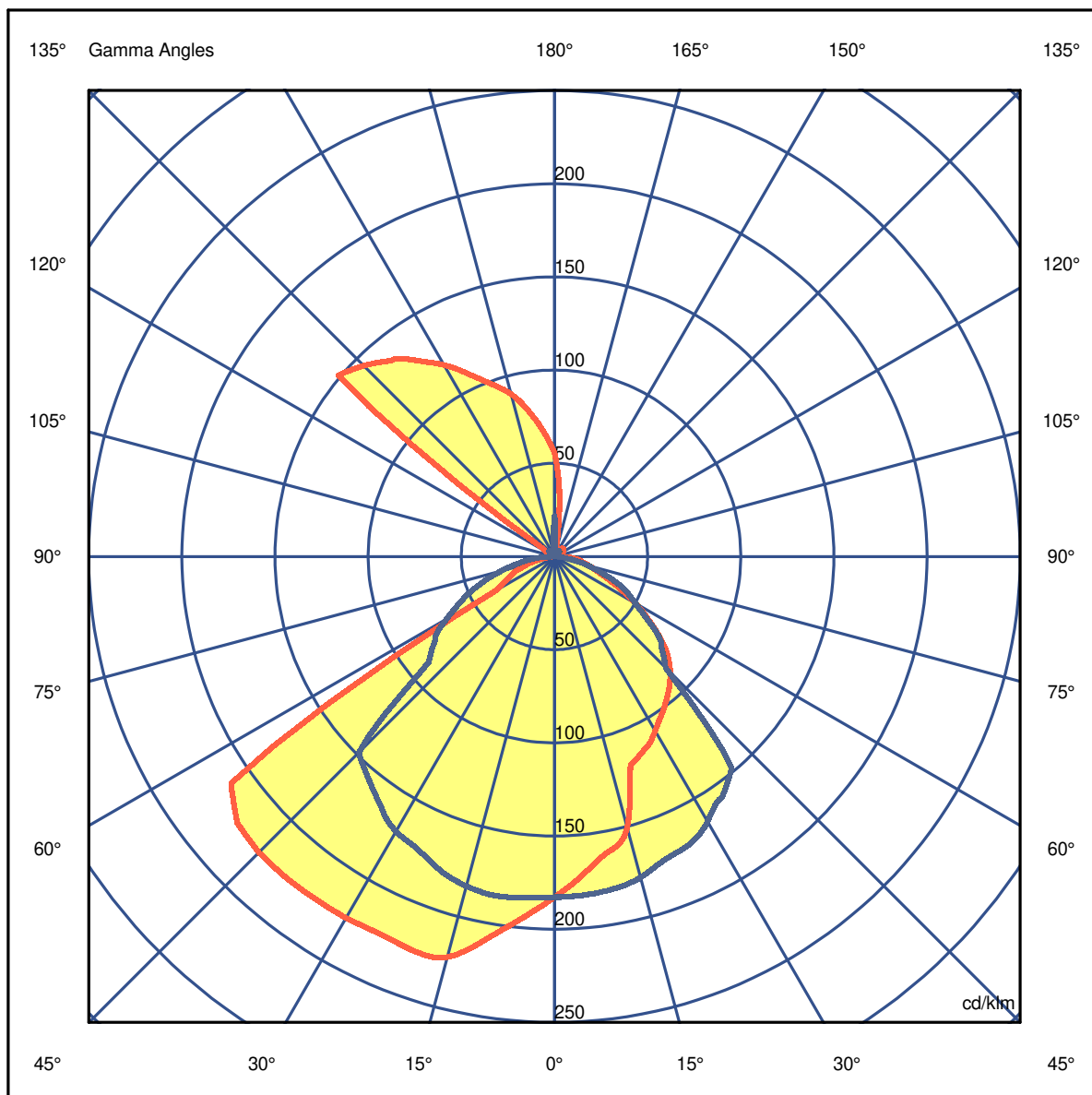
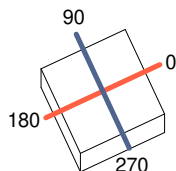
Code 11/8/2023
Name VISA Q110 840 5°+90° LO

| | | | | | | | |
|----------------|--------|-----------------|---------------|----------|------------------|------------|--------------|
| Luminaire Flux | 80 lm | Luminaire Power | 3.0 W | Efficacy | 26.714 lm/W | Efficiency | 53.43% |
| Source Flux | 150 lm | Maximum value | 229.75 cd/klm | Position | C=165.00 G=20.00 | CG | Asymmetrical |

110mm x 110mm

C Halfplanes

180.0 ——— 0.0
270.0 ——— 90.0



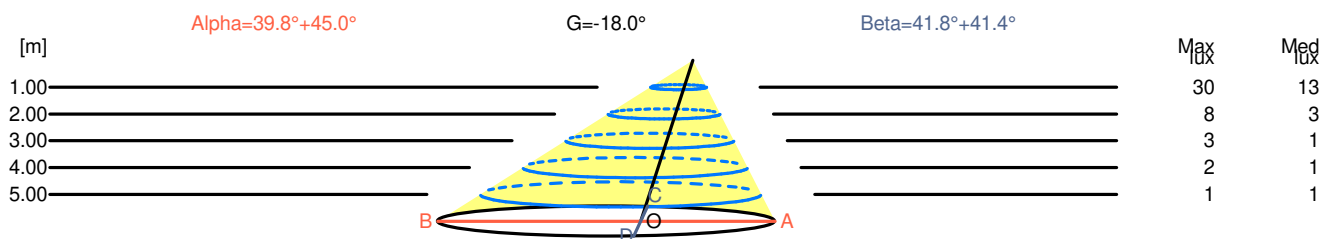
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|----------------|--------|-----------------|---------------|----------|------------------|-----------------|--------|
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Width at 50.00 % of Max Intensity

| | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|
| 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 | 0.84 | 1.67 | 2.51 | 3.34 | 4.18 | OC | 0.94 | 1.88 | 2.82 | 3.76 | 4.69 |
| OB | 1.26 | 2.52 | 3.78 | 5.05 | 6.31 | OD | 0.93 | 1.85 | 2.78 | 3.70 | 4.63 |

| | | | | | | | | | | |
|----|--------------------------------|-------|-------|-------|-------|-------|-------|------|------|------|
| | Luminous Intensities [cd/klm] | | | | | | | | | |
| | 0 | 5 | 15 | 25 | 35 | 45 | 55 | 65 | 75 | 85 |
| OA | 27.40 | 25.73 | 22.60 | 17.11 | 15.19 | 13.17 | 9.61 | 5.42 | 2.94 | 1.61 |
| OB | 27.40 | 29.17 | 33.37 | 33.47 | 33.62 | 33.67 | 31.78 | 4.09 | 2.14 | 0.27 |
| OC | 27.40 | 27.35 | 26.74 | 25.59 | 23.58 | 12.64 | 9.45 | 6.18 | 2.82 | 0.41 |
| OD | 27.40 | 27.54 | 27.45 | 26.01 | 24.43 | 22.29 | 11.75 | 8.19 | 4.42 | 1.52 |



| H[m] | D[m] | Max lux | Med lux | Alpha=39.8°+45.0° | G=-18.0 | |
|------|-------|---------|---------|-------------------|---------|--|
| 1.00 | 2.10 | 30 | 13 | | | |
| 2.00 | 4.19 | 8 | 3 | | | |
| 3.00 | 6.29 | 3 | 1 | | | |
| 4.00 | 8.39 | 2 | 1 | | | |
| 5.00 | 10.48 | 1 | 1 | | | |

| H[m] | D[m] | Max lux | Med lux | Beta=41.4°+41.8° | G=0.0 | |
|------|------|---------|---------|------------------|-------|--|
| 1.00 | 1.86 | 30 | 13 | | | |
| 2.00 | 3.73 | 8 | 3 | | | |
| 3.00 | 5.59 | 3 | 1 | | | |
| 4.00 | 7.46 | 2 | 1 | | | |
| 5.00 | 9.32 | 1 | 1 | | | |

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|----------------|--------|-----------------|---------------|----------|------------------|------------|--------------|
| Luminaire Flux | 80 lm | Luminaire Power | 3.0 W | Efficacy | 26.714 lm/W | Efficiency | 53.43% |
| Source Flux | 150 lm | Maximum value | 229.75 cd/klm | Position | C=165.00 G=20.00 | CG | Asymmetrical |

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 | | | | | | | | | | |
| Room Dimensions | Lateral View | | | | | Viewed Endwise | | | | |
| x=2H y=2H | 14.4 | 15.6 | 14.8 | 15.9 | 16.3 | 10.4 | 11.6 | 10.8 | 11.9 | 12.2 |
| x=2H y=3H | 14.4 | 15.4 | 14.8 | 15.8 | 16.2 | 11.2 | 12.3 | 11.6 | 12.7 | 13.0 |
| x=2H y=4H | 14.4 | 15.4 | 14.8 | 15.7 | 16.1 | 11.6 | 12.6 | 12.0 | 12.9 | 13.3 |
| x=2H y=6H | 14.3 | 15.2 | 14.7 | 15.6 | 16.0 | 11.8 | 12.7 | 12.2 | 13.1 | 13.5 |
| x=2H y=8H | 14.3 | 15.1 | 14.7 | 15.5 | 16.0 | 11.8 | 12.7 | 12.3 | 13.1 | 13.5 |
| x=2H y=12H | 14.2 | 15.0 | 14.7 | 15.5 | 15.9 | 11.8 | 12.7 | 12.3 | 13.1 | 13.6 |
| x=4H y=2H | 14.3 | 15.3 | 14.7 | 15.6 | 16.1 | 10.7 | 11.6 | 11.1 | 12.0 | 12.4 |
| x=4H y=3H | 14.3 | 15.1 | 14.7 | 15.6 | 16.0 | 11.6 | 12.4 | 12.1 | 12.9 | 13.3 |
| x=4H y=4H | 14.3 | 15.0 | 14.8 | 15.5 | 16.0 | 12.0 | 12.7 | 12.5 | 13.2 | 13.6 |
| x=4H y=6H | 14.3 | 14.9 | 14.8 | 15.4 | 15.9 | 12.2 | 12.9 | 12.7 | 13.3 | 13.9 |
| x=4H y=8H | 14.2 | 14.8 | 14.7 | 15.3 | 15.8 | 12.3 | 12.9 | 12.8 | 13.4 | 13.9 |
| x=4H y=12H | 14.2 | 14.7 | 14.7 | 15.2 | 15.8 | 12.4 | 12.9 | 12.9 | 13.4 | 14.0 |
| x=8H y=4H | 14.2 | 14.8 | 14.7 | 15.3 | 15.8 | 12.0 | 12.6 | 12.5 | 13.1 | 13.6 |
| x=8H y=6H | 14.2 | 14.7 | 14.7 | 15.2 | 15.8 | 12.3 | 12.8 | 12.8 | 13.3 | 13.9 |
| x=8H y=8H | 14.2 | 14.6 | 14.7 | 15.1 | 15.7 | 12.4 | 12.8 | 13.0 | 13.4 | 14.0 |
| x=8H y=12H | 14.1 | 14.5 | 14.7 | 15.1 | 15.7 | 12.5 | 12.8 | 13.1 | 13.4 | 14.0 |
| x=12H y=4H | 14.2 | 14.7 | 14.7 | 15.2 | 15.8 | 12.0 | 12.5 | 12.5 | 13.0 | 13.5 |
| x=12H y=6H | 14.2 | 14.6 | 14.7 | 15.1 | 15.7 | 12.3 | 12.7 | 12.8 | 13.2 | 13.9 |
| x=12H y=8H | 14.1 | 14.5 | 14.7 | 15.1 | 15.7 | 12.4 | 12.8 | 13.0 | 13.3 | 13.9 |

Luminaire

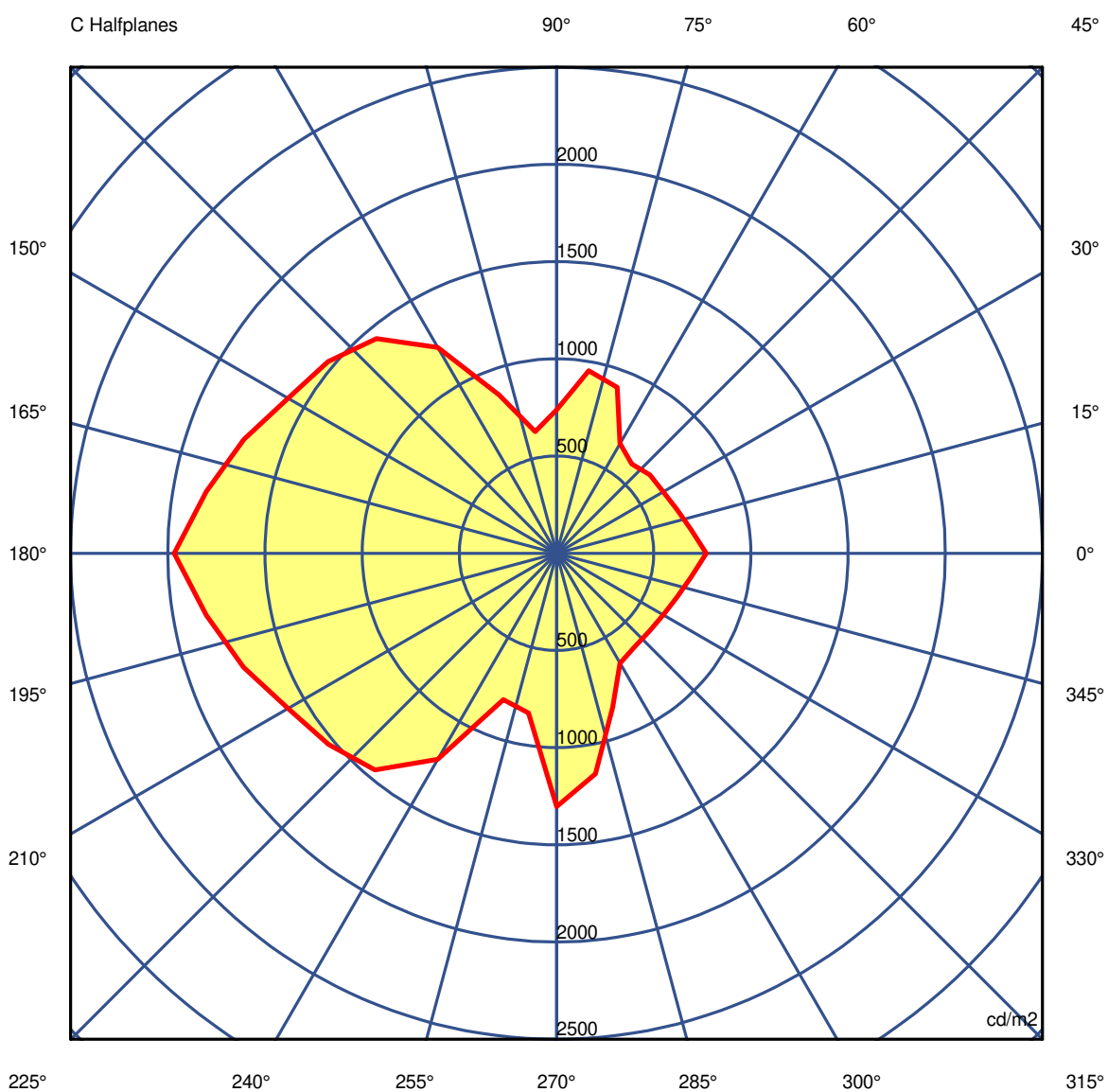
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| Source Flux | 150 lm | Maximum value | 229.75 cd/klm | Position | C=165.00 G=20.00 | CG | Asymmetrical |

Luminance



45.0°

Luminaire

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|--------------------------------|--------|-----------------|---------|---------------|---------|----------|---------|------------------|---------|------------|----------|--------------|----------|
| Luminaire Flux | 80 lm | Luminaire Power | | 3.0 W | | Efficacy | | 26.714 lm/W | | Efficiency | | 53.43% | |
| Source Flux | 150 lm | Maximum value | | 229.75 cd/klm | | Position | | C=165.00 G=20.00 | | CG | | Asymmetrical | |
| 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 | 2265 | 2265 | 2265 | 2265 | 2265 | 2265 | 2265 | 2265 | 2265 | 2265 | 2265 | 2265 | 2265 |
| G 5.0 | 1963 | 1939 | 1923 | 1919 | 1922 | 1936 | 1959 | 1992 | 2033 | 2086 | 2096 | 2107 | 2114 |
| G 10.0 | 1728 | 1972 | 1902 | 1656 | 1666 | 1700 | 1728 | 1782 | 1852 | 1938 | 1950 | 1966 | 1982 |
| G 15.0 | 1525 | 1470 | 1447 | 1450 | 1465 | 1496 | 1547 | 1616 | 1698 | 1804 | 1818 | 1843 | 1874 |
| G 20.0 | 1153 | 1112 | 1057 | 1063 | 1223 | 1351 | 1394 | 1470 | 1562 | 1674 | 1689 | 1725 | 1776 |
| G 25.0 | 1064 | 1012 | 976 | 954 | 949 | 1037 | 1255 | 1354 | 1440 | 1592 | 1591 | 1627 | 1704 |
| G 30.0 | 979 | 920 | 886 | 865 | 857 | 889 | 1016 | 1211 | 1367 | 1490 | 1503 | 1542 | 1589 |
| G 35.0 | 901 | 840 | 800 | 781 | 771 | 783 | 818 | 1065 | 1276 | 1399 | 1418 | 1461 | 1504 |
| G 40.0 | 835 | 770 | 725 | 703 | 705 | 707 | 732 | 969 | 1172 | 1302 | 1347 | 1406 | 1445 |
| G 45.0 | 770 | 702 | 659 | 633 | 627 | 601 | 653 | 909 | 954 | 738 | 636 | 867 | 1224 |
| G 50.0 | 686 | 616 | 580 | 563 | 543 | 544 | 576 | 623 | 632 | 656 | 639 | 609 | 568 |
| G 55.0 | 570 | 507 | 484 | 481 | 465 | 465 | 497 | 538 | 550 | 561 | 545 | 528 | 486 |
| G 60.0 | 454 | 400 | 384 | 387 | 378 | 384 | 415 | 453 | 453 | 455 | 458 | 448 | 401 |
| G 65.0 | 337 | 295 | 289 | 299 | 294 | 304 | 334 | 359 | 366 | 385 | 375 | 356 | 317 |
| G 70.0 | 250 | 220 | 211 | 214 | 218 | 232 | 262 | 294 | 292 | 281 | 267 | 253 | 220 |
| G 75.0 | 198 | 171 | 164 | 165 | 163 | 174 | 201 | 223 | 212 | 190 | 177 | 163 | 138 |
| G 80.0 | 157 | 132 | 125 | 125 | 120 | 126 | 145 | 157 | 137 | 108 | 100 | 92 | 73 |
| G 85.0 | 123 | 99 | 91 | 88 | 79 | 79 | 91 | 94 | 69 | 32 | 32 | 29 | 18 |
| G 90.0 | 35 | 17 | 9 | 8 | 7 | 6 | 4 | 4 | 3 | 3 | 5 | 7 | 7 |

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| Luminaire Flux | 80 lm | | Luminaire Power | | 3.0 W | | Efficacy | | 26.714 lm/W | | Efficiency | | 53.43% |
| Source Flux | 150 lm | | Maximum value | | 229.75 cd/klm | | Position | | C=165.00 G=20.00 | | CG | | Asymmetrical |
| 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 | 2265 | 2265 | 2265 | 2265 | 2265 | 2265 | 2265 | 2265 | 2265 | 2265 | 2265 | 2265 | 2265 |
| G 5.0 | 2122 | 2135 | 2154 | 2175 | 2197 | 2225 | 2197 | 2175 | 2154 | 2135 | 2122 | 2114 | 2105 |
| G 10.0 | 2012 | 2051 | 2090 | 2127 | 2172 | 2227 | 2172 | 2127 | 2090 | 2050 | 2013 | 1982 | 1961 |
| G 15.0 | 1926 | 1989 | 2053 | 2116 | 2179 | 2252 | 2179 | 2116 | 2053 | 1988 | 1927 | 1874 | 1837 |
| G 20.0 | 1863 | 1938 | 1995 | 2067 | 2115 | 2172 | 2115 | 2067 | 1995 | 1938 | 1864 | 1776 | 1717 |
| G 25.0 | 1793 | 1842 | 1871 | 1947 | 2012 | 2081 | 2012 | 1947 | 1871 | 1842 | 1794 | 1704 | 1624 |
| G 30.0 | 1673 | 1728 | 1763 | 1854 | 1942 | 2032 | 1942 | 1854 | 1763 | 1727 | 1674 | 1589 | 1535 |
| G 35.0 | 1586 | 1647 | 1695 | 1796 | 1894 | 1995 | 1894 | 1796 | 1695 | 1647 | 1587 | 1504 | 1455 |
| G 40.0 | 1517 | 1580 | 1639 | 1745 | 1850 | 1976 | 1850 | 1745 | 1639 | 1580 | 1518 | 1445 | 1399 |
| G 45.0 | 1443 | 1535 | 1596 | 1714 | 1830 | 1968 | 1830 | 1714 | 1596 | 1531 | 1454 | 1224 | 800 |
| G 50.0 | 1173 | 1480 | 1556 | 1668 | 1807 | 1956 | 1807 | 1668 | 1556 | 1480 | 1175 | 568 | 609 |
| G 55.0 | 353 | 769 | 1529 | 1651 | 1747 | 1886 | 1747 | 1740 | 1529 | 768 | 464 | 486 | 528 |
| G 60.0 | 388 | 374 | 344 | 319 | 309 | 325 | 309 | 320 | 344 | 373 | 391 | 401 | 430 |
| G 65.0 | 296 | 264 | 228 | 235 | 244 | 254 | 244 | 235 | 228 | 263 | 298 | 317 | 342 |
| G 70.0 | 204 | 188 | 174 | 186 | 199 | 211 | 199 | 186 | 174 | 187 | 206 | 220 | 239 |
| G 75.0 | 136 | 130 | 118 | 130 | 139 | 144 | 139 | 130 | 118 | 129 | 138 | 138 | 151 |
| G 80.0 | 76 | 74 | 64 | 72 | 79 | 81 | 79 | 73 | 64 | 73 | 78 | 73 | 82 |
| G 85.0 | 22 | 28 | 28 | 27 | 23 | 20 | 23 | 27 | 28 | 27 | 24 | 18 | 20 |
| G 90.0 | 8 | 10 | 15 | 17 | 24 | 36 | 24 | 17 | 15 | 10 | 8 | 7 | 7 |

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| Source Flux | 150 lm | Maximum value | 229.75 cd/klm | Position | C=165.00 G=20.00 | CG | Asymmetrical |

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 | 2265 | 2265 | 2265 | 2265 | 2265 | 2265 | 2265 | 2265 | 2265 | 2265 |
| G 5.0 | 2102 | 2101 | 2039 | 1990 | 1959 | 1936 | 1922 | 1919 | 1923 | 1939 |
| G 10.0 | 1964 | 1977 | 1867 | 1777 | 1728 | 1700 | 1639 | 1656 | 1902 | 1972 |
| G 15.0 | 1836 | 1852 | 1716 | 1610 | 1547 | 1497 | 1465 | 1450 | 1447 | 1470 |
| G 20.0 | 1711 | 1734 | 1584 | 1462 | 1394 | 1352 | 1223 | 1063 | 1076 | 1112 |
| G 25.0 | 1601 | 1618 | 1450 | 1351 | 1255 | 1038 | 949 | 954 | 976 | 1012 |
| G 30.0 | 1523 | 1545 | 1387 | 1205 | 1016 | 890 | 857 | 865 | 886 | 920 |
| G 35.0 | 1436 | 1450 | 1294 | 1059 | 818 | 783 | 771 | 781 | 800 | 840 |
| G 40.0 | 1370 | 1368 | 1195 | 961 | 732 | 707 | 698 | 703 | 725 | 770 |
| G 45.0 | 834 | 1303 | 1152 | 842 | 653 | 627 | 623 | 633 | 659 | 702 |
| G 50.0 | 710 | 775 | 674 | 609 | 576 | 547 | 543 | 563 | 581 | 616 |
| G 55.0 | 592 | 697 | 597 | 523 | 497 | 468 | 464 | 481 | 485 | 507 |
| G 60.0 | 511 | 607 | 506 | 436 | 415 | 387 | 378 | 387 | 384 | 400 |
| G 65.0 | 418 | 509 | 409 | 352 | 334 | 306 | 293 | 299 | 289 | 295 |
| G 70.0 | 310 | 407 | 335 | 280 | 262 | 235 | 217 | 214 | 211 | 220 |
| G 75.0 | 213 | 298 | 248 | 214 | 201 | 176 | 162 | 165 | 164 | 171 |
| G 80.0 | 132 | 203 | 166 | 146 | 145 | 128 | 119 | 125 | 125 | 132 |
| G 85.0 | 57 | 116 | 94 | 85 | 91 | 81 | 78 | 88 | 91 | 99 |
| G 90.0 | 6 | 3 | 3 | 4 | 4 | 6 | 7 | 8 | 9 | 17 |