

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P243152

Luminaire Tested: S122DRP-H865D830-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243152
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-58)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DRP-H865D830-X4F0-XX-UDD-A-W
Description: DEFINE 2 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

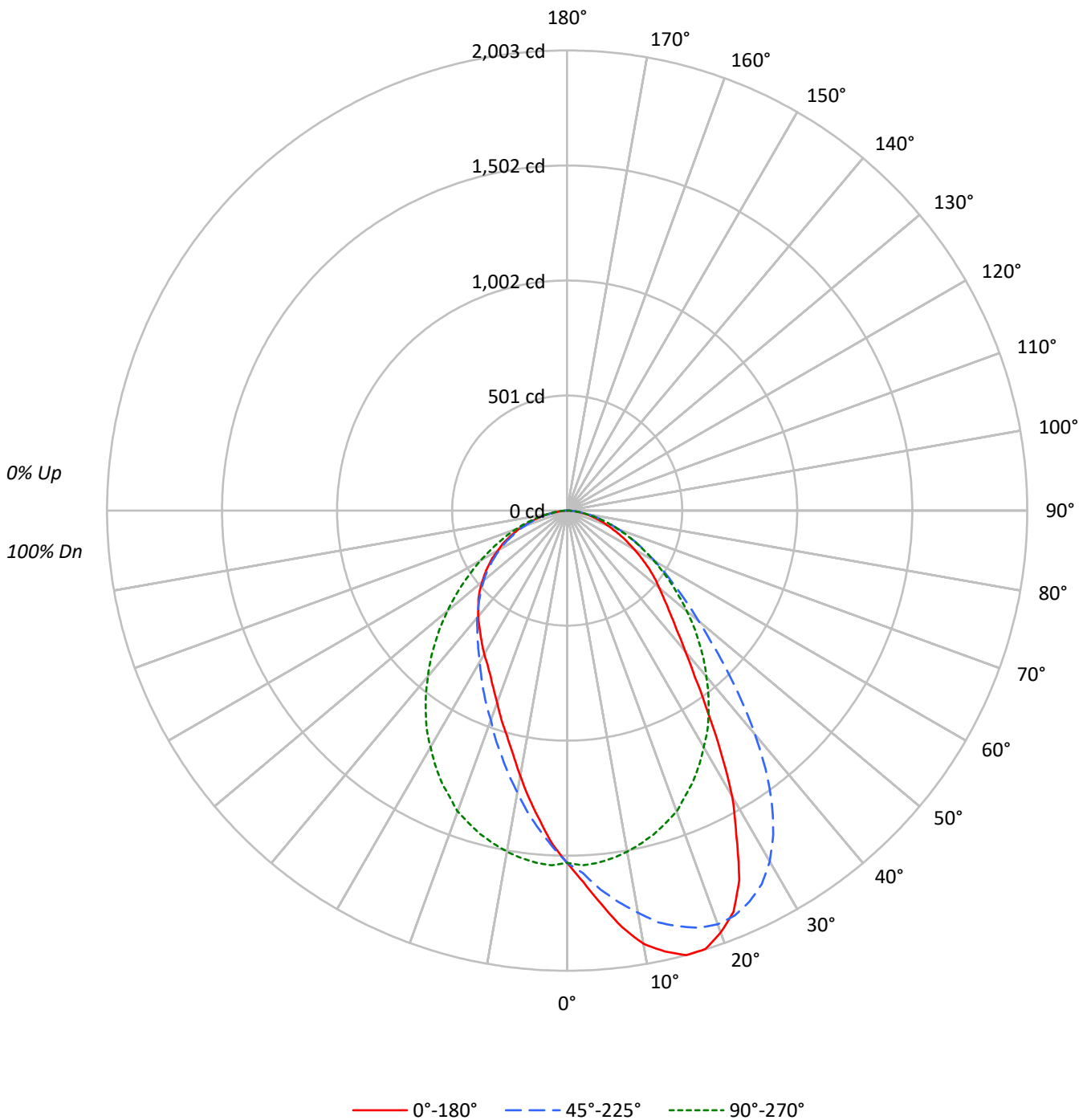
Lumens per Lamp: N/A
Luminaire Lumens: 3402.7 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.16 / 1.24
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P243152

CATALOG NUMBER: S122DRP-H865D830-X4F0-XX-UDD-A-W

Luminous Intensity Polar Plot





TEST NUMBER: P243152

CATALOG NUMBER: S122DRP-H865D830-X4F0-XX-UDD-A-W

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|-----|---|--|---|
| RF | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | |
| RC | 80 | | | | | 70 | | | | | 50 | | | | | 30 | | | | | 10 | | | | | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | 100 | | | |
| 1 | 110 | 106 | 102 | 98 | 107 | 103 | 100 | 97 | 99 | 96 | 94 | 95 | 93 | 91 | 92 | 90 | 88 | | | | | 86 | | | | |
| 2 | 101 | 93 | 87 | 82 | 98 | 92 | 86 | 81 | 88 | 83 | 79 | 85 | 81 | 77 | 82 | 79 | 76 | | | | | 74 | | | | |
| 3 | 93 | 83 | 76 | 70 | 90 | 82 | 75 | 69 | 79 | 73 | 68 | 76 | 71 | 67 | 73 | 69 | 66 | | | | | 63 | | | | |
| 4 | 86 | 74 | 66 | 60 | 83 | 73 | 66 | 60 | 71 | 64 | 59 | 68 | 63 | 58 | 66 | 61 | 57 | | | | | 55 | | | | |
| 5 | 79 | 67 | 59 | 52 | 77 | 66 | 58 | 52 | 64 | 57 | 52 | 62 | 56 | 51 | 60 | 55 | 51 | | | | | 49 | | | | |
| 6 | 73 | 61 | 52 | 46 | 72 | 60 | 52 | 46 | 58 | 51 | 46 | 57 | 50 | 45 | 55 | 49 | 45 | | | | | 43 | | | | |
| 7 | 68 | 56 | 47 | 41 | 67 | 55 | 47 | 41 | 53 | 46 | 41 | 52 | 46 | 41 | 51 | 45 | 40 | | | | | 39 | | | | |
| 8 | 64 | 51 | 43 | 37 | 62 | 50 | 43 | 37 | 49 | 42 | 37 | 48 | 41 | 37 | 47 | 41 | 37 | | | | | 35 | | | | |
| 9 | 60 | 47 | 39 | 34 | 58 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 43 | 38 | 33 | | | | | 32 | | | | |
| 10 | 56 | 44 | 36 | 31 | 55 | 43 | 36 | 31 | 42 | 35 | 31 | 41 | 35 | 31 | 40 | 35 | 31 | | | | | 29 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|-------|-------|-------|
| 0° | 29210 | 29210 | 29210 | 29210 | 29210 |
| 5° | 32903 | 31642 | 29419 | 26641 | 25914 |
| 10° | 37037 | 34368 | 29155 | 24117 | 22678 |
| 15° | 39506 | 36943 | 28763 | 21769 | 19988 |
| 20° | 39620 | 38850 | 28242 | 19682 | 18038 |
| 25° | 37263 | 39470 | 27303 | 18131 | 16626 |
| 30° | 31630 | 38796 | 26165 | 16727 | 15878 |
| 35° | 24732 | 36133 | 24941 | 15796 | 15282 |
| 40° | 19870 | 31596 | 23440 | 15155 | 14986 |
| 45° | 17092 | 26480 | 21892 | 14525 | 14708 |
| 50° | 15507 | 22082 | 20147 | 14043 | 14295 |
| 55° | 14286 | 18979 | 18358 | 13496 | 13908 |
| 60° | 12842 | 16735 | 16541 | 12865 | 13276 |
| 65° | 11561 | 14963 | 14860 | 12047 | 12638 |
| 70° | 10303 | 13277 | 13210 | 11033 | 11823 |
| 75° | 9273 | 11569 | 11363 | 9773 | 10355 |
| 80° | 8095 | 9587 | 9148 | 7964 | 8095 |
| 85° | 6950 | 7933 | 6819 | 5333 | 4458 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 65°
 Vertical Angle: 45°
 Luminance: 36613 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 146.1 | 4.3 |
| 10°-20° | 419.9 | 12.3 |
| 20°-30° | 610.7 | 17.9 |
| 30°-40° | 655.0 | 19.3 |
| 40°-50° | 587.1 | 17.3 |
| 50°-60° | 468.0 | 13.8 |
| 60°-70° | 316.6 | 9.3 |
| 70°-80° | 161.5 | 4.7 |
| 80°-90° | 37.8 | 1.1 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 1176.7 | 34.6 |
| 0°-40° | 1831.7 | 53.8 |
| 0°-60° | 2886.8 | 84.8 |
| 0°-90° | 3402.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3402.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1534 | 1534 | 1534 | 1534 | 1534 | |
| 5° | 1721 | 1655 | 1539 | 1393 | 1355 | 170 |
| 15° | 2003 | 1873 | 1459 | 1104 | 1014 | 561 |
| 25° | 1773 | 1878 | 1299 | 863 | 791 | 798 |
| 35° | 1064 | 1554 | 1073 | 679 | 657 | 674 |
| 45° | 634 | 983 | 813 | 539 | 546 | 496 |
| 55° | 430 | 572 | 553 | 406 | 419 | 384 |
| 65° | 256 | 332 | 330 | 267 | 280 | 255 |
| 75° | 126 | 157 | 154 | 133 | 141 | 134 |
| 85° | 32 | 36 | 31 | 24 | 20 | 37 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P243152

CATALOG NUMBER: S122DRP-H865D830-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1533.5 | 1533.5 | 1533.5 | 1533.5 | 1533.5 | 1533.5 | 1533.5 | 1533.5 | 1533.5 | 1533.5 | 1533.5 |
| 2.5° | 1618.6 | 1623.7 | 1619.2 | 1617.5 | 1614.1 | 1612.9 | 1603.8 | 1596.5 | 1591.9 | 1579.4 | 1580.6 |
| 5° | 1720.8 | 1732.1 | 1725.9 | 1725.3 | 1712.8 | 1704.9 | 1696.9 | 1685.6 | 1668.5 | 1654.9 | 1644.1 |
| 7.5° | 1828.6 | 1822.9 | 1821.2 | 1815.0 | 1805.9 | 1794.5 | 1776.9 | 1760.5 | 1738.9 | 1719.1 | 1704.3 |
| 10° | 1914.9 | 1913.2 | 1916.0 | 1900.1 | 1894.4 | 1876.8 | 1861.5 | 1836.0 | 1808.2 | 1776.9 | 1757.7 |
| 12.5° | 1965.9 | 1971.0 | 1975.0 | 1968.8 | 1955.2 | 1950.0 | 1924.5 | 1888.8 | 1879.1 | 1836.5 | 1813.3 |
| 15° | 2003.4 | 2005.7 | 2006.2 | 1999.4 | 1992.6 | 1979.6 | 1964.2 | 1941.5 | 1910.3 | 1873.4 | 1855.8 |
| 17.5° | 2001.1 | 2000.6 | 2004.0 | 2000.0 | 1996.0 | 1992.0 | 1980.1 | 1962.5 | 1938.1 | 1903.5 | 1874.0 |
| 20° | 1954.6 | 1964.8 | 1972.7 | 1974.4 | 1973.9 | 1976.2 | 1970.5 | 1959.1 | 1941.5 | 1916.6 | 1883.1 |
| 22.5° | 1891.0 | 1887.0 | 1904.1 | 1902.9 | 1910.3 | 1927.3 | 1934.7 | 1930.2 | 1923.4 | 1907.5 | 1880.8 |
| 25° | 1773.0 | 1776.9 | 1788.9 | 1801.4 | 1830.3 | 1840.5 | 1862.6 | 1879.7 | 1881.9 | 1878.0 | 1861.5 |
| 27.5° | 1595.9 | 1624.3 | 1630.5 | 1647.0 | 1687.3 | 1720.8 | 1765.6 | 1792.3 | 1830.3 | 1833.7 | 1826.3 |
| 30° | 1438.1 | 1437.0 | 1446.6 | 1476.2 | 1513.0 | 1563.6 | 1621.4 | 1690.1 | 1733.8 | 1763.9 | 1774.7 |
| 32.5° | 1244.0 | 1248.6 | 1273.5 | 1309.9 | 1347.3 | 1397.8 | 1464.8 | 1548.8 | 1607.3 | 1669.7 | 1704.9 |
| 35° | 1063.6 | 1077.7 | 1101.6 | 1126.6 | 1167.4 | 1236.7 | 1311.0 | 1380.8 | 1470.5 | 1553.9 | 1610.7 |
| 37.5° | 914.9 | 934.2 | 952.3 | 976.2 | 1015.9 | 1069.2 | 1136.2 | 1228.7 | 1317.8 | 1418.3 | 1501.7 |
| 40° | 799.1 | 806.5 | 819.0 | 842.2 | 868.9 | 922.2 | 989.8 | 1059.0 | 1155.5 | 1270.7 | 1380.2 |
| 42.5° | 708.3 | 706.6 | 720.2 | 735.0 | 759.4 | 799.1 | 858.1 | 927.3 | 1023.3 | 1125.4 | 1236.1 |
| 45° | 634.5 | 635.1 | 640.7 | 656.1 | 675.4 | 698.1 | 743.5 | 808.7 | 881.4 | 983.0 | 1100.4 |
| 47.5° | 574.3 | 576.0 | 584.6 | 595.3 | 606.7 | 627.7 | 657.8 | 700.3 | 768.4 | 853.6 | 963.7 |
| 50° | 523.3 | 526.1 | 531.8 | 539.7 | 548.2 | 563.0 | 585.7 | 619.2 | 673.1 | 745.2 | 845.1 |
| 52.5° | 477.9 | 479.0 | 480.7 | 488.1 | 494.9 | 508.5 | 525.5 | 551.6 | 594.2 | 654.4 | 732.1 |
| 55° | 430.2 | 429.1 | 433.0 | 439.3 | 445.5 | 455.2 | 472.8 | 493.8 | 523.8 | 571.5 | 635.6 |
| 57.5° | 381.4 | 383.1 | 385.9 | 389.3 | 400.7 | 410.9 | 423.9 | 443.2 | 467.1 | 504.5 | 557.9 |
| 60° | 337.1 | 337.1 | 340.5 | 345.1 | 352.4 | 359.2 | 371.7 | 389.3 | 410.3 | 439.3 | 484.1 |
| 62.5° | 294.0 | 296.3 | 299.7 | 301.9 | 308.7 | 317.3 | 326.9 | 340.5 | 359.8 | 383.1 | 416.6 |
| 65° | 256.5 | 255.4 | 258.8 | 263.3 | 268.4 | 274.1 | 284.9 | 296.3 | 311.0 | 332.0 | 359.8 |
| 67.5° | 217.9 | 221.3 | 222.5 | 224.7 | 228.7 | 236.1 | 241.2 | 253.1 | 265.0 | 283.8 | 307.0 |
| 70° | 185.0 | 187.3 | 189.0 | 191.8 | 195.2 | 198.6 | 203.7 | 213.4 | 225.3 | 238.4 | 254.8 |
| 72.5° | 155.5 | 157.2 | 155.5 | 158.3 | 160.0 | 163.4 | 170.3 | 174.8 | 183.9 | 195.2 | 210.0 |
| 75° | 126.0 | 127.1 | 126.6 | 129.4 | 130.0 | 133.4 | 136.8 | 140.7 | 151.0 | 157.2 | 167.4 |
| 77.5° | 98.8 | 99.9 | 100.5 | 101.6 | 102.7 | 104.4 | 106.1 | 110.1 | 115.8 | 121.5 | 129.4 |
| 80° | 73.8 | 73.8 | 75.5 | 76.0 | 76.6 | 77.8 | 80.6 | 81.7 | 85.7 | 87.4 | 93.6 |
| 82.5° | 51.1 | 51.6 | 52.2 | 52.2 | 52.8 | 53.9 | 54.5 | 56.8 | 57.9 | 60.7 | 63.6 |
| 85° | 31.8 | 32.3 | 32.3 | 32.3 | 34.1 | 33.5 | 33.5 | 34.6 | 36.3 | 36.3 | 37.5 |
| 87.5° | 15.9 | 16.5 | 16.5 | 16.5 | 17.0 | 17.0 | 17.0 | 17.0 | 17.0 | 18.2 | 17.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P243152

CATALOG NUMBER: S122DRP-H865D830-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1533.5 | 1533.5 | 1533.5 | 1533.5 | 1533.5 | 1533.5 | 1533.5 | 1533.5 | 1533.5 | 1533.5 | 1533.5 |
| 2.5° | 1580.0 | 1579.4 | 1577.2 | 1567.0 | 1559.0 | 1548.8 | 1547.1 | 1545.4 | 1531.2 | 1515.9 | 1511.3 |
| 5° | 1635.6 | 1625.4 | 1611.2 | 1594.2 | 1577.2 | 1558.4 | 1547.7 | 1538.6 | 1517.0 | 1493.2 | 1479.6 |
| 7.5° | 1690.1 | 1670.3 | 1648.1 | 1621.4 | 1593.1 | 1563.0 | 1543.7 | 1525.5 | 1496.0 | 1464.8 | 1446.1 |
| 10° | 1736.7 | 1710.0 | 1679.3 | 1644.1 | 1605.0 | 1564.1 | 1535.7 | 1507.4 | 1469.9 | 1431.9 | 1406.9 |
| 12.5° | 1775.2 | 1741.2 | 1700.9 | 1653.2 | 1617.5 | 1561.3 | 1521.6 | 1484.1 | 1442.7 | 1393.3 | 1366.1 |
| 15° | 1804.8 | 1771.3 | 1716.8 | 1668.5 | 1621.4 | 1546.5 | 1498.3 | 1458.6 | 1402.9 | 1354.7 | 1311.6 |
| 17.5° | 1840.5 | 1792.8 | 1738.9 | 1669.7 | 1617.5 | 1531.8 | 1477.3 | 1425.6 | 1365.5 | 1308.7 | 1261.1 |
| 20° | 1856.4 | 1806.5 | 1748.6 | 1671.4 | 1605.0 | 1515.9 | 1443.2 | 1393.3 | 1320.7 | 1255.4 | 1201.5 |
| 22.5° | 1858.7 | 1811.0 | 1748.0 | 1666.3 | 1583.4 | 1492.6 | 1409.2 | 1343.9 | 1271.3 | 1202.0 | 1141.3 |
| 25° | 1849.0 | 1803.6 | 1738.4 | 1657.2 | 1559.6 | 1467.6 | 1374.6 | 1299.1 | 1215.1 | 1143.6 | 1081.7 |
| 27.5° | 1822.9 | 1786.0 | 1724.2 | 1637.3 | 1535.2 | 1429.0 | 1327.5 | 1245.2 | 1162.3 | 1081.2 | 1022.1 |
| 30° | 1780.9 | 1756.5 | 1703.2 | 1611.2 | 1504.0 | 1387.1 | 1285.5 | 1189.6 | 1099.9 | 1023.8 | 960.3 |
| 32.5° | 1727.0 | 1715.1 | 1670.8 | 1580.0 | 1472.2 | 1341.1 | 1235.0 | 1136.2 | 1038.6 | 966.5 | 901.2 |
| 35° | 1658.3 | 1664.6 | 1627.1 | 1544.8 | 1431.9 | 1294.5 | 1175.9 | 1072.6 | 977.3 | 900.7 | 840.5 |
| 37.5° | 1569.2 | 1599.9 | 1576.0 | 1498.9 | 1380.2 | 1247.4 | 1114.1 | 1010.2 | 910.3 | 836.5 | 783.8 |
| 40° | 1469.3 | 1523.3 | 1511.9 | 1447.2 | 1324.6 | 1192.4 | 1054.5 | 942.7 | 845.1 | 775.3 | 724.7 |
| 42.5° | 1351.9 | 1430.2 | 1442.7 | 1384.2 | 1269.6 | 1123.7 | 987.5 | 879.7 | 785.5 | 716.8 | 668.6 |
| 45° | 1220.2 | 1317.2 | 1359.2 | 1313.3 | 1205.4 | 1057.3 | 918.8 | 812.7 | 719.6 | 661.2 | 620.9 |
| 47.5° | 1088.0 | 1204.9 | 1261.6 | 1239.5 | 1130.5 | 986.4 | 850.7 | 746.9 | 658.9 | 607.8 | 569.8 |
| 50° | 957.4 | 1082.9 | 1165.7 | 1151.0 | 1056.7 | 918.8 | 782.1 | 679.9 | 599.3 | 552.2 | 519.9 |
| 52.5° | 842.8 | 961.4 | 1051.6 | 1059.0 | 974.5 | 841.7 | 709.4 | 614.6 | 546.0 | 503.4 | 476.2 |
| 55° | 729.8 | 839.9 | 938.7 | 956.9 | 888.2 | 760.5 | 642.4 | 552.8 | 490.3 | 455.2 | 433.0 |
| 57.5° | 628.8 | 728.7 | 826.9 | 858.7 | 803.1 | 687.9 | 570.4 | 491.5 | 437.6 | 410.3 | 391.0 |
| 60° | 543.1 | 633.4 | 717.9 | 750.3 | 712.3 | 607.3 | 504.5 | 434.2 | 389.3 | 364.9 | 349.6 |
| 62.5° | 468.2 | 538.0 | 612.9 | 648.7 | 623.2 | 531.8 | 442.1 | 379.7 | 343.4 | 322.4 | 310.4 |
| 65° | 400.7 | 454.6 | 513.6 | 555.0 | 526.7 | 458.6 | 383.7 | 329.7 | 299.1 | 279.8 | 271.3 |
| 67.5° | 338.2 | 383.1 | 430.2 | 463.1 | 448.9 | 387.1 | 324.1 | 282.1 | 256.5 | 241.8 | 233.8 |
| 70° | 281.5 | 315.0 | 353.0 | 378.5 | 368.3 | 320.7 | 270.7 | 237.2 | 215.7 | 205.4 | 198.6 |
| 72.5° | 231.0 | 252.6 | 281.5 | 302.5 | 291.7 | 258.2 | 222.5 | 195.8 | 179.9 | 168.0 | 162.9 |
| 75° | 183.3 | 202.0 | 222.5 | 236.7 | 228.1 | 203.2 | 174.8 | 154.4 | 143.6 | 136.2 | 132.8 |
| 77.5° | 139.0 | 153.8 | 168.0 | 174.8 | 170.8 | 152.7 | 133.4 | 117.5 | 108.4 | 103.9 | 99.9 |
| 80° | 99.9 | 108.4 | 118.0 | 124.3 | 122.0 | 109.5 | 95.9 | 83.4 | 79.5 | 73.8 | 72.6 |
| 82.5° | 67.0 | 73.8 | 76.0 | 78.9 | 77.2 | 71.5 | 61.9 | 54.5 | 51.1 | 48.2 | 47.7 |
| 85° | 39.7 | 41.4 | 44.3 | 44.3 | 42.6 | 38.6 | 33.5 | 31.2 | 27.8 | 27.2 | 25.5 |
| 87.5° | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 16.5 | 14.2 | 13.1 | 11.9 | 11.4 | 10.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P243152

CATALOG NUMBER: S122DRP-H865D830-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1533.5 | 1533.5 | 1533.5 | 1533.5 | 1533.5 | 1533.5 | 1533.5 | 1533.5 | 1533.5 | 1533.5 | 1533.5 |
| 2.5° | 1507.4 | 1501.7 | 1493.7 | 1484.7 | 1476.7 | 1464.2 | 1460.3 | 1460.3 | 1463.1 | 1459.7 | 1456.9 |
| 5° | 1468.2 | 1456.9 | 1445.5 | 1427.9 | 1413.2 | 1393.3 | 1387.6 | 1381.9 | 1381.4 | 1375.7 | 1368.3 |
| 7.5° | 1426.2 | 1409.2 | 1385.9 | 1360.9 | 1345.1 | 1323.5 | 1311.6 | 1308.2 | 1297.4 | 1287.2 | 1275.2 |
| 10° | 1377.4 | 1351.3 | 1323.5 | 1299.7 | 1274.7 | 1246.9 | 1232.7 | 1223.0 | 1212.3 | 1199.8 | 1191.3 |
| 12.5° | 1318.4 | 1288.9 | 1263.3 | 1235.5 | 1214.5 | 1175.4 | 1170.8 | 1158.3 | 1136.8 | 1118.0 | 1111.2 |
| 15° | 1282.1 | 1230.4 | 1201.5 | 1175.9 | 1144.1 | 1103.9 | 1089.1 | 1075.5 | 1055.0 | 1043.1 | 1033.5 |
| 17.5° | 1217.9 | 1171.4 | 1135.1 | 1101.0 | 1070.4 | 1039.2 | 1017.0 | 1005.7 | 989.2 | 979.0 | 969.3 |
| 20° | 1159.5 | 1109.0 | 1070.9 | 1031.2 | 999.4 | 971.0 | 952.3 | 938.1 | 929.6 | 919.4 | 909.8 |
| 22.5° | 1100.4 | 1047.7 | 1011.3 | 971.0 | 933.6 | 916.6 | 894.4 | 882.5 | 871.2 | 863.2 | 853.0 |
| 25° | 1031.8 | 989.8 | 944.4 | 913.2 | 880.2 | 862.7 | 841.7 | 830.3 | 821.2 | 812.1 | 807.0 |
| 27.5° | 970.5 | 927.9 | 885.9 | 854.7 | 826.9 | 809.9 | 796.8 | 786.0 | 774.7 | 767.9 | 763.9 |
| 30° | 906.9 | 867.8 | 830.9 | 800.8 | 779.2 | 760.5 | 752.5 | 742.3 | 733.8 | 731.0 | 724.7 |
| 32.5° | 850.2 | 806.5 | 777.0 | 749.7 | 731.6 | 718.5 | 712.8 | 702.0 | 700.3 | 697.5 | 694.1 |
| 35° | 793.4 | 756.0 | 727.6 | 704.3 | 689.0 | 679.3 | 672.0 | 669.1 | 666.3 | 663.4 | 660.6 |
| 37.5° | 737.2 | 707.7 | 681.0 | 662.3 | 649.8 | 642.4 | 640.7 | 635.1 | 634.5 | 630.5 | 630.5 |
| 40° | 686.7 | 656.6 | 637.9 | 623.2 | 612.9 | 609.5 | 605.0 | 603.9 | 602.2 | 601.0 | 603.3 |
| 42.5° | 636.2 | 615.8 | 599.9 | 584.6 | 576.6 | 573.8 | 572.6 | 570.9 | 569.8 | 573.2 | 574.3 |
| 45° | 589.1 | 571.5 | 557.9 | 547.1 | 542.6 | 539.2 | 539.2 | 540.9 | 540.3 | 542.0 | 542.0 |
| 47.5° | 545.4 | 529.5 | 518.2 | 514.2 | 508.5 | 507.4 | 507.9 | 507.4 | 510.2 | 512.5 | 514.8 |
| 50° | 504.0 | 489.8 | 480.7 | 476.7 | 475.6 | 473.9 | 476.2 | 477.3 | 479.0 | 481.3 | 482.4 |
| 52.5° | 458.0 | 451.2 | 445.5 | 441.5 | 441.0 | 441.5 | 441.0 | 444.9 | 446.6 | 450.1 | 449.5 |
| 55° | 418.8 | 413.7 | 409.8 | 405.2 | 404.7 | 406.4 | 407.5 | 410.9 | 413.2 | 416.0 | 415.4 |
| 57.5° | 381.9 | 378.0 | 373.4 | 372.3 | 371.7 | 372.3 | 377.4 | 376.8 | 380.2 | 382.5 | 383.7 |
| 60° | 341.7 | 338.8 | 334.8 | 334.8 | 336.5 | 337.7 | 339.4 | 342.2 | 345.6 | 345.1 | 349.0 |
| 62.5° | 304.8 | 301.4 | 300.2 | 301.9 | 301.4 | 304.2 | 305.9 | 305.9 | 310.4 | 312.1 | 313.3 |
| 65° | 267.9 | 266.7 | 265.0 | 265.0 | 266.7 | 267.3 | 270.1 | 271.8 | 273.6 | 277.0 | 279.8 |
| 67.5° | 233.3 | 230.4 | 230.4 | 229.3 | 231.6 | 233.3 | 235.0 | 237.2 | 238.4 | 242.3 | 244.0 |
| 70° | 196.9 | 195.8 | 195.2 | 196.4 | 196.4 | 198.1 | 200.9 | 203.7 | 206.0 | 206.6 | 210.0 |
| 72.5° | 161.7 | 161.7 | 161.7 | 163.4 | 164.6 | 166.3 | 166.9 | 169.1 | 172.5 | 173.1 | 174.8 |
| 75° | 130.0 | 130.5 | 130.0 | 130.5 | 131.1 | 132.8 | 133.9 | 136.2 | 138.5 | 139.0 | 140.2 |
| 77.5° | 100.5 | 99.3 | 98.2 | 99.9 | 101.0 | 104.4 | 103.9 | 105.0 | 107.3 | 106.1 | 107.3 |
| 80° | 70.4 | 72.1 | 69.8 | 73.2 | 73.2 | 72.6 | 73.8 | 75.5 | 74.9 | 76.0 | 74.9 |
| 82.5° | 47.7 | 46.0 | 46.0 | 47.7 | 48.2 | 46.5 | 47.7 | 48.2 | 48.8 | 47.7 | 47.1 |
| 85° | 26.1 | 25.5 | 26.7 | 25.0 | 25.5 | 24.4 | 24.4 | 23.3 | 24.4 | 23.3 | 22.1 |
| 87.5° | 9.6 | 9.1 | 9.6 | 7.9 | 7.4 | 6.8 | 6.2 | 6.2 | 5.1 | 5.1 | 5.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P243152

CATALOG NUMBER: S122DRP-H865D830-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 1533.5 | 1533.5 | 1533.5 | 1533.5 |
| 2.5° | 1460.8 | 1454.6 | 1451.8 | 1454.0 |
| 5° | 1360.4 | 1362.1 | 1351.9 | 1355.3 |
| 7.5° | 1273.5 | 1266.2 | 1268.4 | 1264.5 |
| 10° | 1181.6 | 1177.6 | 1171.4 | 1172.5 |
| 12.5° | 1119.7 | 1093.1 | 1091.4 | 1086.3 |
| 15° | 1032.9 | 1018.2 | 1014.7 | 1013.6 |
| 17.5° | 963.7 | 951.2 | 955.7 | 952.3 |
| 20° | 901.2 | 901.8 | 894.4 | 889.9 |
| 22.5° | 846.2 | 845.1 | 842.2 | 837.7 |
| 25° | 799.7 | 799.7 | 792.8 | 791.1 |
| 27.5° | 757.1 | 758.2 | 752.5 | 752.5 |
| 30° | 725.3 | 721.3 | 720.8 | 721.9 |
| 32.5° | 693.5 | 689.0 | 689.6 | 689.0 |
| 35° | 659.5 | 660.6 | 658.9 | 657.2 |
| 37.5° | 630.5 | 630.5 | 630.5 | 628.8 |
| 40° | 602.2 | 603.3 | 601.6 | 602.7 |
| 42.5° | 573.8 | 574.3 | 574.3 | 572.1 |
| 45° | 545.4 | 544.8 | 543.7 | 546.0 |
| 47.5° | 515.9 | 515.9 | 515.3 | 516.5 |
| 50° | 483.5 | 484.7 | 483.0 | 482.4 |
| 52.5° | 450.6 | 451.2 | 450.6 | 451.8 |
| 55° | 417.1 | 417.1 | 417.7 | 418.8 |
| 57.5° | 382.5 | 386.5 | 383.7 | 385.9 |
| 60° | 348.5 | 349.0 | 349.6 | 348.5 |
| 62.5° | 316.1 | 315.5 | 316.1 | 317.8 |
| 65° | 280.9 | 282.1 | 281.5 | 280.4 |
| 67.5° | 246.3 | 245.2 | 246.9 | 245.2 |
| 70° | 209.4 | 211.7 | 210.0 | 212.3 |
| 72.5° | 175.9 | 175.4 | 176.5 | 173.7 |
| 75° | 140.7 | 140.7 | 141.3 | 140.7 |
| 77.5° | 107.8 | 106.7 | 106.1 | 104.4 |
| 80° | 74.3 | 74.3 | 72.1 | 73.8 |
| 82.5° | 45.4 | 46.0 | 46.5 | 43.1 |
| 85° | 21.6 | 21.6 | 21.0 | 20.4 |
| 87.5° | 4.5 | 4.5 | 5.1 | 5.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

TEST NUMBER: P243152
 CATALOG NUMBER: S122DRP-H865D830-X4F0-XX-UDD-A-W

CIE UGR TABLE:

| Reflectances: | | | | | | | | | | | |
|-----------------|------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Ceiling | | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 |
| Wall | | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 |
| Reference plane | | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Room dimensions | | Viewed crosswise | | | | | Viewed endwise | | | | |
| X=2H | Y=2H | 20.37 | 21.89 | 20.74 | 22.21 | 22.52 | 23.21 | 24.73 | 23.57 | 25.05 | 25.36 |
| | 3H | 21.72 | 23.09 | 22.10 | 23.42 | 23.78 | 24.23 | 25.60 | 24.61 | 25.92 | 26.29 |
| | 4H | 22.21 | 23.49 | 22.61 | 23.84 | 24.22 | 24.56 | 25.84 | 24.96 | 26.19 | 26.57 |
| | 6H | 22.56 | 23.74 | 22.97 | 24.11 | 24.50 | 24.75 | 25.94 | 25.16 | 26.30 | 26.70 |
| | 8H | 22.67 | 23.79 | 23.09 | 24.18 | 24.58 | 24.79 | 25.92 | 25.22 | 26.31 | 26.71 |
| | 12H | 22.73 | 23.81 | 23.17 | 24.20 | 24.63 | 24.81 | 25.89 | 25.24 | 26.27 | 26.70 |
| 4H | 2H | 21.25 | 22.54 | 21.65 | 22.88 | 23.26 | 23.45 | 24.73 | 23.85 | 25.08 | 25.46 |
| | 3H | 22.75 | 23.82 | 23.16 | 24.22 | 24.62 | 24.82 | 25.89 | 25.23 | 26.28 | 26.69 |
| | 4H | 23.32 | 24.28 | 23.75 | 24.69 | 25.13 | 25.34 | 26.29 | 25.77 | 26.71 | 27.15 |
| | 6H | 23.76 | 24.59 | 24.21 | 25.03 | 25.49 | 25.67 | 26.50 | 26.12 | 26.94 | 27.40 |
| | 8H | 23.89 | 24.67 | 24.35 | 25.11 | 25.58 | 25.74 | 26.52 | 26.21 | 26.96 | 27.43 |
| | 12H | 23.99 | 24.68 | 24.47 | 25.16 | 25.63 | 25.78 | 26.48 | 26.26 | 26.95 | 27.43 |
| 8H | 4H | 23.76 | 24.53 | 24.22 | 24.98 | 25.45 | 25.47 | 26.25 | 25.94 | 26.69 | 27.16 |
| | 6H | 24.28 | 24.92 | 24.78 | 25.41 | 25.89 | 25.91 | 26.56 | 26.41 | 27.05 | 27.53 |
| | 8H | 24.47 | 25.04 | 24.98 | 25.55 | 26.04 | 26.05 | 26.63 | 26.56 | 27.13 | 27.62 |
| | 12H | 24.62 | 25.13 | 25.13 | 25.62 | 26.19 | 26.14 | 26.65 | 26.65 | 27.14 | 27.70 |
| 12H | 4H | 23.81 | 24.51 | 24.29 | 24.98 | 25.46 | 25.47 | 26.16 | 25.95 | 26.64 | 27.11 |
| | 6H | 24.36 | 24.93 | 24.87 | 25.44 | 25.93 | 25.92 | 26.49 | 26.43 | 27.00 | 27.49 |
| | 8H | 24.59 | 25.10 | 25.10 | 25.59 | 26.16 | 26.10 | 26.61 | 26.61 | 27.10 | 27.66 |