

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: P243673

Luminaire Tested: S125DRP-H1090D835-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243673
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-61)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DRP-H1090D835-X4F0-XX-UDD-A-W
Description: DEFINE 5 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

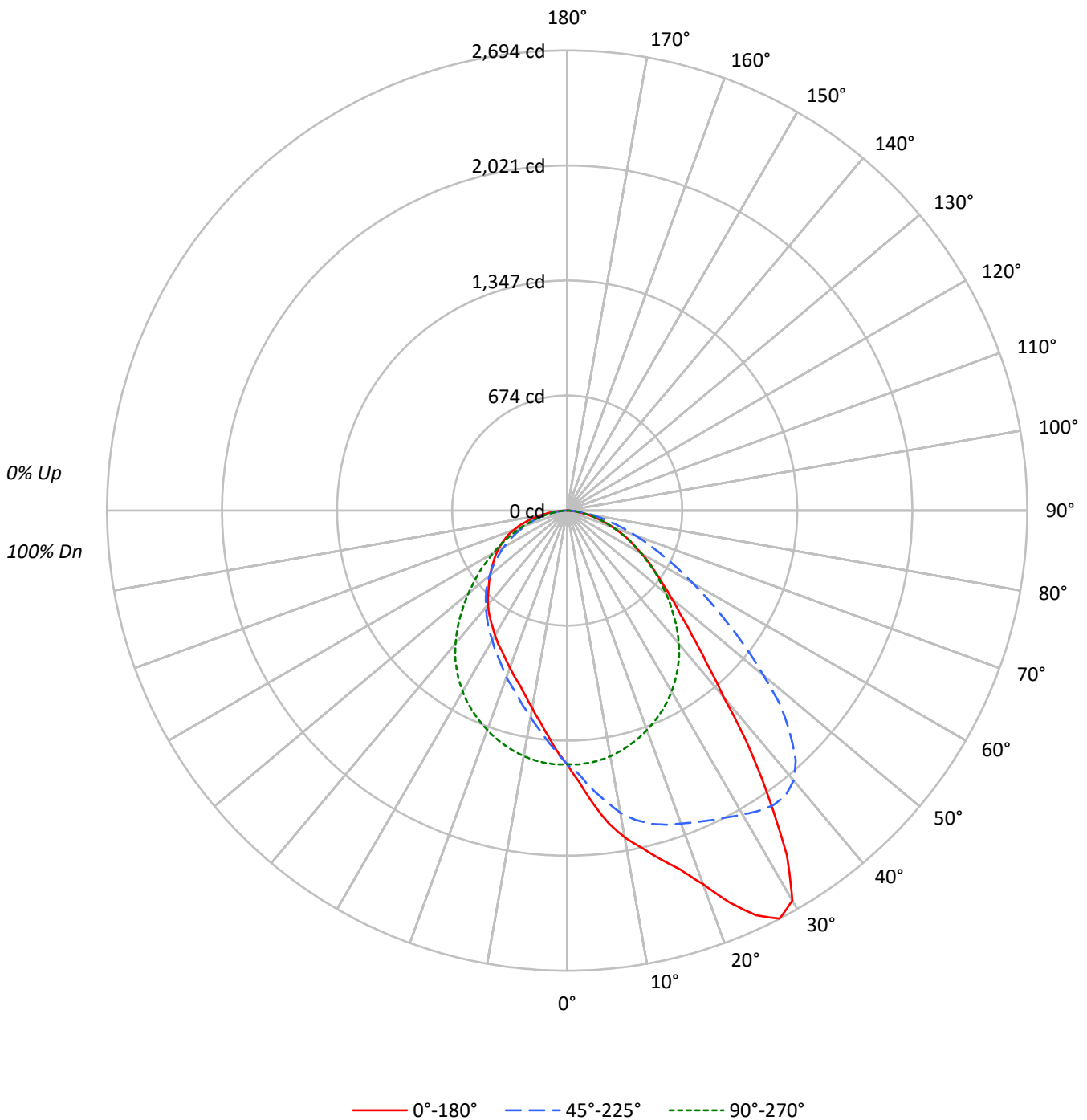
Lumens per Lamp: N/A
Luminaire Lumens: 4231.2 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.22 / 1.53
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

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: P243673

CATALOG NUMBER: S125DRP-H1090D835-X4F0-XX-UDD-A-W

Luminous Intensity Polar Plot



TEST NUMBER: P243673

CATALOG NUMBER: S125DRP-H1090D835-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 | 109 | 105 | 101 | 97 | 107 | 103 | 99 | 96 | 99 | 96 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 | | | | | 85 | | | |
| 2 | 100 | 92 | 86 | 80 | 97 | 90 | 84 | 79 | 87 | 82 | 78 | 84 | 79 | 76 | 81 | 77 | 74 | 72 | | | | | 72 | | | |
| 3 | 92 | 82 | 74 | 68 | 89 | 80 | 73 | 67 | 77 | 71 | 66 | 74 | 69 | 65 | 72 | 67 | 63 | 61 | | | | | 61 | | | |
| 4 | 84 | 73 | 64 | 58 | 82 | 71 | 63 | 57 | 69 | 62 | 56 | 66 | 61 | 56 | 64 | 59 | 55 | 53 | | | | | 53 | | | |
| 5 | 78 | 65 | 56 | 50 | 75 | 64 | 56 | 50 | 62 | 55 | 49 | 60 | 54 | 49 | 58 | 53 | 48 | 46 | | | | | 46 | | | |
| 6 | 72 | 59 | 50 | 44 | 70 | 58 | 50 | 44 | 56 | 49 | 43 | 54 | 48 | 43 | 53 | 47 | 43 | 40 | | | | | 40 | | | |
| 7 | 67 | 53 | 45 | 39 | 65 | 53 | 44 | 39 | 51 | 44 | 38 | 50 | 43 | 38 | 48 | 42 | 38 | 36 | | | | | 36 | | | |
| 8 | 62 | 49 | 40 | 35 | 60 | 48 | 40 | 35 | 47 | 40 | 34 | 46 | 39 | 34 | 44 | 38 | 34 | 32 | | | | | 32 | | | |
| 9 | 58 | 45 | 37 | 31 | 57 | 44 | 36 | 31 | 43 | 36 | 31 | 42 | 36 | 31 | 41 | 35 | 31 | 29 | | | | | 29 | | | |
| 10 | 54 | 41 | 34 | 28 | 53 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 | | | | | 26 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|-------|-------|-------|
| 0° | 10552 | 10552 | 10552 | 10552 | 10552 |
| 5° | 12258 | 11640 | 10575 | 9621 | 9398 |
| 10° | 14025 | 12960 | 10540 | 8859 | 8481 |
| 15° | 15548 | 13963 | 10446 | 8262 | 7814 |
| 20° | 17603 | 14749 | 10341 | 7859 | 7413 |
| 25° | 20499 | 15679 | 10207 | 7455 | 7100 |
| 30° | 21641 | 16863 | 10039 | 7204 | 6927 |
| 35° | 17895 | 18267 | 9794 | 7020 | 6780 |
| 40° | 13238 | 19147 | 9439 | 6870 | 6680 |
| 45° | 10408 | 18553 | 8926 | 6735 | 6535 |
| 50° | 8814 | 16568 | 8347 | 6550 | 6510 |
| 55° | 7847 | 14197 | 7773 | 6341 | 6535 |
| 60° | 7120 | 12031 | 7137 | 6084 | 6675 |
| 65° | 6601 | 10287 | 6540 | 5772 | 6865 |
| 70° | 5931 | 8794 | 5854 | 5393 | 6905 |
| 75° | 5058 | 7439 | 5141 | 4926 | 6810 |
| 80° | 4138 | 6013 | 4212 | 4289 | 6356 |
| 85° | 2846 | 4224 | 2993 | 3384 | 5398 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 18553 cd/sqm



TEST NUMBER: P243673

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 143.4 | 3.4 |
| 10°-20° | 428.6 | 10.1 |
| 20°-30° | 696.7 | 16.5 |
| 30°-40° | 847.6 | 20.0 |
| 40°-50° | 775.6 | 18.3 |
| 50°-60° | 620.7 | 14.7 |
| 60°-70° | 432.3 | 10.2 |
| 70°-80° | 229.8 | 5.4 |
| 80°-90° | 56.4 | 1.3 |
| 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° | 1268.7 | 30.0 |
| 0°-40° | 2116.3 | 50.0 |
| 0°-60° | 3512.7 | 83.0 |
| 0°-90° | 4231.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4231.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1485 | 1485 | 1485 | 1485 | 1485 | |
| 5° | 1718 | 1632 | 1482 | 1348 | 1317 | 171 |
| 15° | 2113 | 1898 | 1420 | 1123 | 1062 | 606 |
| 25° | 2614 | 1999 | 1302 | 951 | 905 | 1194 |
| 35° | 2062 | 2105 | 1129 | 809 | 781 | 1279 |
| 45° | 1036 | 1846 | 888 | 670 | 650 | 817 |
| 55° | 633 | 1146 | 627 | 512 | 527 | 571 |
| 65° | 392 | 612 | 389 | 343 | 408 | 386 |
| 75° | 184 | 271 | 187 | 179 | 248 | 199 |
| 85° | 35 | 52 | 37 | 42 | 66 | 45 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P243673

CATALOG NUMBER: S125DRP-H1090D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1484.6 | 1484.6 | 1484.6 | 1484.6 | 1484.6 | 1484.6 | 1484.6 | 1484.6 | 1484.6 | 1484.6 | 1484.6 |
| 2.5° | 1589.3 | 1582.7 | 1580.9 | 1581.5 | 1577.9 | 1574.9 | 1567.7 | 1558.0 | 1551.4 | 1543.0 | 1540.6 |
| 5° | 1718.2 | 1701.9 | 1704.9 | 1700.1 | 1692.3 | 1682.1 | 1673.0 | 1658.6 | 1644.7 | 1631.5 | 1614.0 |
| 7.5° | 1844.6 | 1841.6 | 1833.2 | 1832.0 | 1819.3 | 1801.9 | 1783.8 | 1763.9 | 1734.4 | 1714.0 | 1690.5 |
| 10° | 1943.3 | 1949.4 | 1937.3 | 1937.9 | 1915.6 | 1898.2 | 1882.5 | 1856.6 | 1823.5 | 1795.8 | 1761.5 |
| 12.5° | 2022.8 | 2025.2 | 2023.4 | 2015.6 | 2001.1 | 1971.6 | 1956.6 | 1929.5 | 1893.4 | 1855.4 | 1829.0 |
| 15° | 2113.1 | 2106.5 | 2096.3 | 2086.6 | 2065.5 | 2044.5 | 2013.2 | 1981.3 | 1935.5 | 1897.6 | 1859.1 |
| 17.5° | 2203.4 | 2202.2 | 2189.6 | 2169.1 | 2142.6 | 2114.9 | 2068.0 | 2027.0 | 1978.3 | 1928.3 | 1880.1 |
| 20° | 2327.4 | 2320.8 | 2302.1 | 2278.7 | 2229.9 | 2190.8 | 2132.4 | 2076.4 | 2012.6 | 1950.0 | 1894.0 |
| 22.5° | 2482.8 | 2461.1 | 2442.4 | 2406.3 | 2350.3 | 2282.3 | 2216.7 | 2135.4 | 2046.3 | 1972.8 | 1903.0 |
| 25° | 2614.0 | 2604.4 | 2584.5 | 2544.2 | 2480.3 | 2398.5 | 2300.9 | 2208.8 | 2096.9 | 1999.3 | 1908.4 |
| 27.5° | 2693.5 | 2689.2 | 2677.2 | 2639.3 | 2586.3 | 2505.0 | 2400.9 | 2283.5 | 2156.5 | 2024.6 | 1915.6 |
| 30° | 2636.9 | 2637.5 | 2644.1 | 2639.9 | 2616.4 | 2564.0 | 2471.3 | 2353.3 | 2206.4 | 2054.7 | 1917.5 |
| 32.5° | 2393.7 | 2409.9 | 2461.7 | 2486.4 | 2519.5 | 2530.3 | 2488.8 | 2390.6 | 2248.6 | 2084.8 | 1923.5 |
| 35° | 2062.5 | 2102.3 | 2137.2 | 2209.4 | 2295.5 | 2366.0 | 2406.9 | 2375.0 | 2266.0 | 2105.3 | 1926.5 |
| 37.5° | 1750.7 | 1747.7 | 1801.9 | 1880.1 | 1971.6 | 2091.4 | 2207.6 | 2271.4 | 2235.9 | 2101.1 | 1921.1 |
| 40° | 1426.8 | 1454.5 | 1488.2 | 1557.4 | 1664.6 | 1812.1 | 1950.6 | 2087.2 | 2136.6 | 2063.7 | 1900.0 |
| 42.5° | 1205.3 | 1217.9 | 1251.6 | 1305.8 | 1382.9 | 1533.4 | 1670.0 | 1845.8 | 1972.2 | 1980.7 | 1853.6 |
| 45° | 1035.5 | 1049.3 | 1059.0 | 1112.5 | 1184.2 | 1285.3 | 1425.6 | 1602.6 | 1772.4 | 1845.8 | 1778.4 |
| 47.5° | 899.4 | 907.3 | 928.3 | 960.8 | 1007.8 | 1097.5 | 1209.5 | 1370.2 | 1555.0 | 1697.7 | 1674.8 |
| 50° | 797.1 | 803.1 | 820.0 | 838.0 | 876.5 | 942.8 | 1033.1 | 1164.9 | 1342.5 | 1498.4 | 1549.6 |
| 52.5° | 706.8 | 714.6 | 723.0 | 740.5 | 776.0 | 820.6 | 894.0 | 997.0 | 1161.9 | 1321.4 | 1402.7 |
| 55° | 633.3 | 636.3 | 645.4 | 658.6 | 685.7 | 719.4 | 777.8 | 871.1 | 986.7 | 1145.7 | 1257.6 |
| 57.5° | 569.5 | 566.5 | 576.1 | 585.2 | 603.2 | 631.5 | 673.7 | 742.9 | 853.1 | 988.5 | 1105.3 |
| 60° | 500.9 | 503.9 | 511.1 | 518.3 | 531.0 | 555.7 | 588.8 | 644.2 | 724.8 | 846.4 | 965.6 |
| 62.5° | 441.9 | 444.3 | 446.1 | 456.3 | 467.8 | 485.2 | 512.3 | 557.5 | 624.3 | 724.8 | 831.4 |
| 65° | 392.5 | 388.3 | 390.7 | 397.9 | 407.0 | 421.4 | 446.7 | 479.8 | 529.8 | 611.7 | 700.2 |
| 67.5° | 334.7 | 335.9 | 336.5 | 340.7 | 348.6 | 362.4 | 380.5 | 407.6 | 448.5 | 512.9 | 590.6 |
| 70° | 285.4 | 286.0 | 286.6 | 290.2 | 296.8 | 304.6 | 317.3 | 338.3 | 373.3 | 423.2 | 484.0 |
| 72.5° | 234.8 | 237.2 | 237.2 | 240.2 | 245.0 | 249.2 | 261.3 | 278.7 | 305.2 | 345.0 | 396.1 |
| 75° | 184.2 | 188.4 | 189.6 | 193.3 | 197.5 | 198.7 | 207.7 | 221.5 | 238.4 | 270.9 | 311.2 |
| 77.5° | 143.3 | 143.3 | 145.7 | 149.9 | 149.9 | 153.5 | 163.1 | 169.2 | 182.4 | 204.7 | 235.4 |
| 80° | 101.1 | 102.9 | 102.9 | 104.2 | 106.6 | 109.6 | 113.8 | 119.2 | 130.6 | 146.9 | 163.1 |
| 82.5° | 66.2 | 66.8 | 67.4 | 70.4 | 69.2 | 72.2 | 74.0 | 80.7 | 86.1 | 93.9 | 104.2 |
| 85° | 34.9 | 34.9 | 35.5 | 37.3 | 39.1 | 39.7 | 40.9 | 43.9 | 48.2 | 51.8 | 57.8 |
| 87.5° | 14.4 | 13.8 | 13.8 | 15.1 | 15.1 | 15.7 | 16.3 | 17.5 | 19.9 | 19.9 | 22.3 |
| 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: P243673

CATALOG NUMBER: S125DRP-H1090D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1484.6 | 1484.6 | 1484.6 | 1484.6 | 1484.6 | 1484.6 | 1484.6 | 1484.6 | 1484.6 | 1484.6 | 1484.6 |
| 2.5° | 1538.8 | 1534.0 | 1525.5 | 1518.3 | 1509.3 | 1502.7 | 1496.0 | 1487.6 | 1479.2 | 1470.1 | 1460.5 |
| 5° | 1600.2 | 1585.7 | 1569.5 | 1553.2 | 1534.0 | 1518.3 | 1501.5 | 1482.2 | 1465.9 | 1447.9 | 1428.6 |
| 7.5° | 1670.6 | 1645.3 | 1617.0 | 1585.1 | 1555.0 | 1527.9 | 1500.2 | 1473.8 | 1449.7 | 1422.6 | 1396.1 |
| 10° | 1738.6 | 1694.7 | 1659.2 | 1615.8 | 1573.1 | 1533.4 | 1495.4 | 1460.5 | 1425.6 | 1391.9 | 1359.4 |
| 12.5° | 1785.0 | 1735.0 | 1690.5 | 1640.5 | 1590.6 | 1540.6 | 1490.6 | 1442.5 | 1400.9 | 1360.0 | 1325.7 |
| 15° | 1816.9 | 1782.0 | 1723.0 | 1662.8 | 1597.2 | 1532.2 | 1475.6 | 1419.6 | 1370.2 | 1322.6 | 1281.7 |
| 17.5° | 1836.8 | 1791.6 | 1733.8 | 1670.6 | 1598.4 | 1530.3 | 1462.3 | 1395.5 | 1338.9 | 1287.7 | 1241.4 |
| 20° | 1842.2 | 1789.2 | 1729.0 | 1663.4 | 1591.2 | 1516.5 | 1440.0 | 1367.2 | 1305.8 | 1247.4 | 1200.4 |
| 22.5° | 1836.8 | 1775.4 | 1711.0 | 1647.1 | 1571.3 | 1495.4 | 1415.4 | 1335.9 | 1265.5 | 1205.3 | 1155.9 |
| 25° | 1827.7 | 1753.7 | 1686.3 | 1611.0 | 1540.6 | 1468.3 | 1385.9 | 1301.6 | 1228.1 | 1165.5 | 1110.1 |
| 27.5° | 1816.3 | 1731.4 | 1648.3 | 1574.3 | 1497.8 | 1426.8 | 1350.9 | 1264.9 | 1188.4 | 1119.8 | 1068.0 |
| 30° | 1803.1 | 1701.9 | 1609.8 | 1521.9 | 1449.7 | 1378.6 | 1304.6 | 1223.3 | 1146.3 | 1080.6 | 1024.6 |
| 32.5° | 1788.0 | 1670.6 | 1562.3 | 1467.7 | 1390.7 | 1325.1 | 1255.8 | 1178.2 | 1102.3 | 1031.9 | 983.1 |
| 35° | 1766.9 | 1627.9 | 1511.1 | 1408.7 | 1328.7 | 1257.6 | 1196.8 | 1128.8 | 1053.5 | 987.9 | 937.4 |
| 37.5° | 1742.3 | 1589.9 | 1459.3 | 1348.5 | 1261.2 | 1188.4 | 1132.4 | 1077.0 | 1006.6 | 943.4 | 894.6 |
| 40° | 1709.2 | 1544.2 | 1404.5 | 1284.7 | 1191.4 | 1119.8 | 1065.0 | 1017.4 | 959.0 | 895.2 | 851.3 |
| 42.5° | 1665.8 | 1493.6 | 1342.5 | 1214.9 | 1124.6 | 1048.1 | 997.0 | 953.6 | 903.6 | 848.3 | 804.9 |
| 45° | 1616.4 | 1435.8 | 1273.3 | 1148.1 | 1049.9 | 977.1 | 927.1 | 888.0 | 850.1 | 800.7 | 760.4 |
| 47.5° | 1539.4 | 1367.8 | 1210.7 | 1072.2 | 975.9 | 905.4 | 858.5 | 821.2 | 792.9 | 753.7 | 714.0 |
| 50° | 1447.9 | 1290.7 | 1136.6 | 997.6 | 900.0 | 832.0 | 787.4 | 754.9 | 730.9 | 700.8 | 670.7 |
| 52.5° | 1347.3 | 1204.1 | 1055.4 | 925.3 | 827.8 | 763.4 | 716.4 | 687.5 | 671.9 | 647.8 | 624.3 |
| 55° | 1229.9 | 1106.5 | 968.1 | 849.5 | 753.7 | 688.1 | 647.8 | 627.3 | 609.9 | 597.8 | 576.7 |
| 57.5° | 1111.9 | 1007.8 | 884.4 | 767.0 | 679.1 | 620.7 | 584.6 | 561.7 | 549.0 | 540.6 | 525.6 |
| 60° | 983.1 | 901.2 | 788.1 | 686.3 | 608.0 | 552.7 | 520.8 | 502.1 | 490.7 | 485.8 | 475.6 |
| 62.5° | 860.3 | 797.7 | 694.7 | 609.9 | 540.0 | 491.3 | 459.3 | 444.3 | 437.1 | 431.7 | 425.6 |
| 65° | 739.3 | 689.9 | 608.6 | 529.2 | 470.2 | 426.2 | 400.9 | 388.9 | 383.5 | 377.5 | 376.9 |
| 67.5° | 630.3 | 585.2 | 520.1 | 455.1 | 405.8 | 368.4 | 346.2 | 334.1 | 328.1 | 328.7 | 325.7 |
| 70° | 523.2 | 488.2 | 435.3 | 382.3 | 340.1 | 310.6 | 289.6 | 281.7 | 279.3 | 278.7 | 276.3 |
| 72.5° | 423.2 | 403.4 | 357.0 | 312.5 | 279.3 | 256.5 | 239.6 | 233.0 | 230.0 | 228.8 | 228.8 |
| 75° | 335.3 | 320.9 | 281.1 | 247.4 | 222.1 | 203.5 | 192.0 | 187.2 | 183.0 | 185.4 | 183.6 |
| 77.5° | 251.6 | 239.6 | 212.5 | 188.4 | 169.2 | 153.5 | 148.1 | 143.9 | 141.5 | 140.9 | 143.3 |
| 80° | 177.0 | 169.8 | 152.9 | 133.6 | 119.2 | 110.2 | 106.6 | 102.9 | 101.1 | 99.9 | 101.1 |
| 82.5° | 113.8 | 109.6 | 97.5 | 86.1 | 77.7 | 72.8 | 69.2 | 67.4 | 64.4 | 65.0 | 66.2 |
| 85° | 62.0 | 60.8 | 53.0 | 49.4 | 41.5 | 40.9 | 38.5 | 36.7 | 37.3 | 36.1 | 37.9 |
| 87.5° | 25.3 | 24.1 | 22.3 | 20.5 | 18.1 | 16.3 | 15.1 | 16.3 | 14.4 | 16.3 | 15.7 |
| 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: P243673

CATALOG NUMBER: S125DRP-H1090D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1484.6 | 1484.6 | 1484.6 | 1484.6 | 1484.6 | 1484.6 | 1484.6 | 1484.6 | 1484.6 | 1484.6 | 1484.6 |
| 2.5° | 1455.7 | 1449.1 | 1441.2 | 1434.0 | 1423.2 | 1416.0 | 1412.4 | 1413.6 | 1409.3 | 1408.1 | 1407.5 |
| 5° | 1417.2 | 1402.1 | 1387.7 | 1375.6 | 1363.0 | 1348.5 | 1338.3 | 1335.3 | 1334.1 | 1331.1 | 1324.5 |
| 7.5° | 1377.4 | 1358.2 | 1339.5 | 1322.0 | 1304.0 | 1287.1 | 1276.9 | 1268.5 | 1263.7 | 1255.2 | 1253.4 |
| 10° | 1335.3 | 1311.8 | 1291.9 | 1266.7 | 1245.0 | 1227.5 | 1214.3 | 1207.1 | 1202.8 | 1195.0 | 1188.4 |
| 12.5° | 1295.0 | 1270.3 | 1239.6 | 1216.7 | 1193.8 | 1175.8 | 1160.7 | 1148.7 | 1145.7 | 1135.4 | 1130.0 |
| 15° | 1251.6 | 1221.5 | 1193.8 | 1167.3 | 1145.7 | 1122.8 | 1113.7 | 1102.9 | 1092.1 | 1083.0 | 1081.2 |
| 17.5° | 1210.1 | 1173.9 | 1146.9 | 1121.0 | 1094.5 | 1077.6 | 1065.6 | 1058.4 | 1049.9 | 1045.1 | 1036.7 |
| 20° | 1160.1 | 1130.6 | 1100.5 | 1076.4 | 1053.5 | 1039.1 | 1022.8 | 1016.2 | 1010.2 | 998.8 | 995.1 |
| 22.5° | 1118.0 | 1082.4 | 1057.2 | 1033.1 | 1012.6 | 992.1 | 980.7 | 974.1 | 965.0 | 959.0 | 954.2 |
| 25° | 1074.0 | 1044.5 | 1012.6 | 988.5 | 971.1 | 950.6 | 942.8 | 934.3 | 926.5 | 921.1 | 916.3 |
| 27.5° | 1031.3 | 998.8 | 972.9 | 948.8 | 930.7 | 916.3 | 905.4 | 896.4 | 891.0 | 886.8 | 883.8 |
| 30° | 986.7 | 956.6 | 932.5 | 910.3 | 889.8 | 877.8 | 867.5 | 863.9 | 857.9 | 854.9 | 850.1 |
| 32.5° | 946.4 | 915.7 | 892.8 | 873.5 | 855.5 | 843.4 | 837.4 | 832.0 | 826.0 | 820.6 | 820.0 |
| 35° | 900.6 | 874.1 | 853.1 | 832.0 | 818.8 | 809.1 | 802.5 | 797.1 | 792.3 | 788.1 | 785.6 |
| 37.5° | 860.3 | 835.0 | 811.5 | 796.5 | 782.0 | 773.6 | 766.4 | 764.6 | 759.8 | 760.4 | 756.7 |
| 40° | 816.9 | 794.1 | 774.2 | 759.2 | 749.5 | 740.5 | 735.7 | 729.7 | 726.6 | 727.2 | 724.2 |
| 42.5° | 774.8 | 753.7 | 735.7 | 721.8 | 711.6 | 705.0 | 700.8 | 695.9 | 692.3 | 689.9 | 689.3 |
| 45° | 732.1 | 713.4 | 698.3 | 684.5 | 676.1 | 670.1 | 664.6 | 658.6 | 655.6 | 654.4 | 653.8 |
| 47.5° | 689.9 | 673.1 | 656.8 | 647.2 | 639.4 | 633.9 | 628.5 | 623.7 | 621.3 | 619.5 | 616.5 |
| 50° | 646.6 | 629.7 | 618.3 | 606.2 | 599.6 | 592.4 | 586.4 | 584.0 | 581.0 | 580.4 | 583.4 |
| 52.5° | 601.4 | 588.2 | 577.9 | 568.3 | 560.5 | 552.7 | 546.6 | 543.6 | 545.4 | 545.4 | 549.0 |
| 55° | 558.7 | 544.8 | 535.2 | 527.4 | 518.9 | 511.7 | 505.7 | 505.7 | 505.7 | 509.3 | 514.1 |
| 57.5° | 511.1 | 499.1 | 491.9 | 482.8 | 475.0 | 470.2 | 466.0 | 465.4 | 467.8 | 473.8 | 479.2 |
| 60° | 463.0 | 454.5 | 446.7 | 439.5 | 431.7 | 428.0 | 427.4 | 426.2 | 429.8 | 435.9 | 447.3 |
| 62.5° | 415.4 | 410.0 | 400.3 | 396.7 | 390.1 | 385.9 | 385.9 | 387.1 | 392.5 | 402.2 | 412.4 |
| 65° | 369.6 | 361.8 | 354.6 | 351.0 | 346.8 | 343.2 | 343.2 | 348.0 | 355.8 | 364.8 | 377.5 |
| 67.5° | 322.7 | 316.1 | 311.2 | 307.6 | 302.8 | 301.0 | 302.8 | 308.2 | 317.9 | 326.9 | 340.1 |
| 70° | 272.1 | 270.9 | 266.7 | 261.9 | 259.5 | 259.5 | 261.3 | 267.3 | 274.5 | 288.4 | 299.8 |
| 72.5° | 225.8 | 225.8 | 223.4 | 220.3 | 218.5 | 220.3 | 221.5 | 227.6 | 236.6 | 248.6 | 261.3 |
| 75° | 183.6 | 181.8 | 180.0 | 178.8 | 178.2 | 179.4 | 181.2 | 186.0 | 196.9 | 208.3 | 218.5 |
| 77.5° | 142.1 | 140.9 | 139.1 | 140.3 | 140.3 | 140.9 | 146.3 | 151.7 | 157.7 | 166.8 | 177.6 |
| 80° | 102.3 | 102.9 | 101.1 | 100.5 | 103.5 | 104.8 | 109.0 | 113.2 | 117.4 | 127.6 | 135.5 |
| 82.5° | 67.4 | 68.6 | 68.0 | 69.2 | 70.4 | 70.4 | 75.3 | 79.5 | 83.1 | 90.3 | 96.3 |
| 85° | 38.5 | 39.1 | 39.1 | 40.9 | 42.1 | 41.5 | 45.8 | 48.2 | 50.0 | 55.4 | 59.0 |
| 87.5° | 16.9 | 17.5 | 18.1 | 18.1 | 18.1 | 20.5 | 21.1 | 22.3 | 22.9 | 24.1 | 25.9 |
| 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: P243673

CATALOG NUMBER: S125DRP-H1090D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 1484.6 | 1484.6 | 1484.6 | 1484.6 |
| 2.5° | 1402.1 | 1401.5 | 1404.5 | 1406.3 |
| 5° | 1320.2 | 1318.4 | 1316.0 | 1317.2 |
| 7.5° | 1247.4 | 1242.6 | 1241.4 | 1241.4 |
| 10° | 1183.0 | 1178.2 | 1177.0 | 1175.2 |
| 12.5° | 1128.2 | 1121.0 | 1118.0 | 1115.0 |
| 15° | 1076.4 | 1075.2 | 1068.6 | 1062.0 |
| 17.5° | 1028.9 | 1030.7 | 1024.0 | 1021.0 |
| 20° | 989.1 | 983.7 | 981.3 | 980.1 |
| 22.5° | 948.8 | 944.6 | 944.6 | 940.4 |
| 25° | 912.7 | 909.1 | 909.7 | 905.4 |
| 27.5° | 879.0 | 878.4 | 877.8 | 876.5 |
| 30° | 847.7 | 845.2 | 842.8 | 844.0 |
| 32.5° | 817.6 | 813.9 | 812.1 | 811.5 |
| 35° | 786.2 | 785.0 | 782.6 | 781.4 |
| 37.5° | 755.5 | 756.1 | 753.1 | 752.5 |
| 40° | 722.4 | 721.8 | 721.2 | 720.0 |
| 42.5° | 687.5 | 685.7 | 686.9 | 686.3 |
| 45° | 652.6 | 650.8 | 652.0 | 650.2 |
| 47.5° | 618.3 | 619.5 | 619.5 | 620.1 |
| 50° | 584.6 | 587.0 | 587.0 | 588.8 |
| 52.5° | 553.3 | 558.1 | 558.1 | 557.5 |
| 55° | 519.5 | 525.0 | 526.8 | 527.4 |
| 57.5° | 487.6 | 493.1 | 498.5 | 499.7 |
| 60° | 453.3 | 463.0 | 468.4 | 469.6 |
| 62.5° | 422.6 | 431.7 | 438.9 | 439.5 |
| 65° | 388.3 | 399.1 | 405.8 | 408.2 |
| 67.5° | 353.4 | 361.8 | 370.8 | 374.5 |
| 70° | 313.7 | 323.9 | 329.9 | 332.3 |
| 72.5° | 272.1 | 283.6 | 291.4 | 292.6 |
| 75° | 232.4 | 240.8 | 246.8 | 248.0 |
| 77.5° | 187.2 | 195.7 | 201.1 | 202.3 |
| 80° | 142.1 | 149.3 | 152.9 | 155.3 |
| 82.5° | 100.5 | 105.4 | 107.2 | 109.6 |
| 85° | 62.0 | 65.6 | 66.2 | 66.2 |
| 87.5° | 27.1 | 27.7 | 27.7 | 28.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

TEST NUMBER: P243673
 CATALOG NUMBER: S125DRP-H1090D835-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 | 19.02 | 20.59 | 19.39 | 20.91 | 21.22 | 18.76 | 20.33 | 19.13 | 20.65 | 20.96 |
| | 3H | 20.38 | 21.79 | 20.75 | 22.12 | 22.48 | 20.19 | 21.60 | 20.57 | 21.93 | 22.29 |
| | 4H | 20.86 | 22.18 | 21.25 | 22.53 | 22.91 | 20.68 | 22.00 | 21.07 | 22.35 | 22.73 |
| | 6H | 21.16 | 22.39 | 21.57 | 22.76 | 23.15 | 20.99 | 22.22 | 21.40 | 22.59 | 22.98 |
| | 8H | 21.24 | 22.41 | 21.67 | 22.80 | 23.20 | 21.07 | 22.24 | 21.50 | 22.63 | 23.03 |
| | 12H | 21.27 | 22.39 | 21.70 | 22.78 | 23.21 | 21.11 | 22.23 | 21.54 | 22.61 | 23.04 |
| 4H | 2H | 20.41 | 21.74 | 20.81 | 22.09 | 22.46 | 19.83 | 21.15 | 20.23 | 21.50 | 21.88 |
| | 3H | 21.77 | 22.88 | 22.18 | 23.27 | 23.67 | 21.48 | 22.59 | 21.89 | 22.99 | 23.39 |
| | 4H | 22.27 | 23.27 | 22.70 | 23.68 | 24.12 | 22.04 | 23.04 | 22.48 | 23.45 | 23.89 |
| | 6H | 22.63 | 23.49 | 23.08 | 23.94 | 24.39 | 22.42 | 23.29 | 22.88 | 23.73 | 24.19 |
| | 8H | 22.72 | 23.53 | 23.18 | 23.97 | 24.44 | 22.52 | 23.33 | 22.98 | 23.77 | 24.24 |
| | 12H | 22.77 | 23.49 | 23.25 | 23.97 | 24.44 | 22.57 | 23.30 | 23.05 | 23.78 | 24.25 |
| 8H | 4H | 22.73 | 23.54 | 23.19 | 23.98 | 24.45 | 22.40 | 23.21 | 22.86 | 23.65 | 24.12 |
| | 6H | 23.16 | 23.83 | 23.65 | 24.32 | 24.80 | 22.90 | 23.57 | 23.39 | 24.06 | 24.54 |
| | 8H | 23.28 | 23.89 | 23.80 | 24.40 | 24.88 | 23.04 | 23.65 | 23.56 | 24.16 | 24.64 |
| | 12H | 23.37 | 23.90 | 23.88 | 24.40 | 24.96 | 23.14 | 23.68 | 23.65 | 24.17 | 24.73 |
| 12H | 4H | 22.77 | 23.50 | 23.25 | 23.97 | 24.44 | 22.42 | 23.14 | 22.90 | 23.62 | 24.09 |
| | 6H | 23.23 | 23.83 | 23.74 | 24.34 | 24.83 | 22.95 | 23.55 | 23.46 | 24.06 | 24.55 |
| | 8H | 23.40 | 23.94 | 23.91 | 24.43 | 24.99 | 23.15 | 23.68 | 23.66 | 24.17 | 24.74 |