

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: P242916

Luminaire Tested: S125RDRP-S1090D835-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P242916  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-32)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDRP-S1090D835-X4F0-XX-UDD-A-W  
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER  
STANDARD LIGHT ENGINE  
Light Source: (92) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

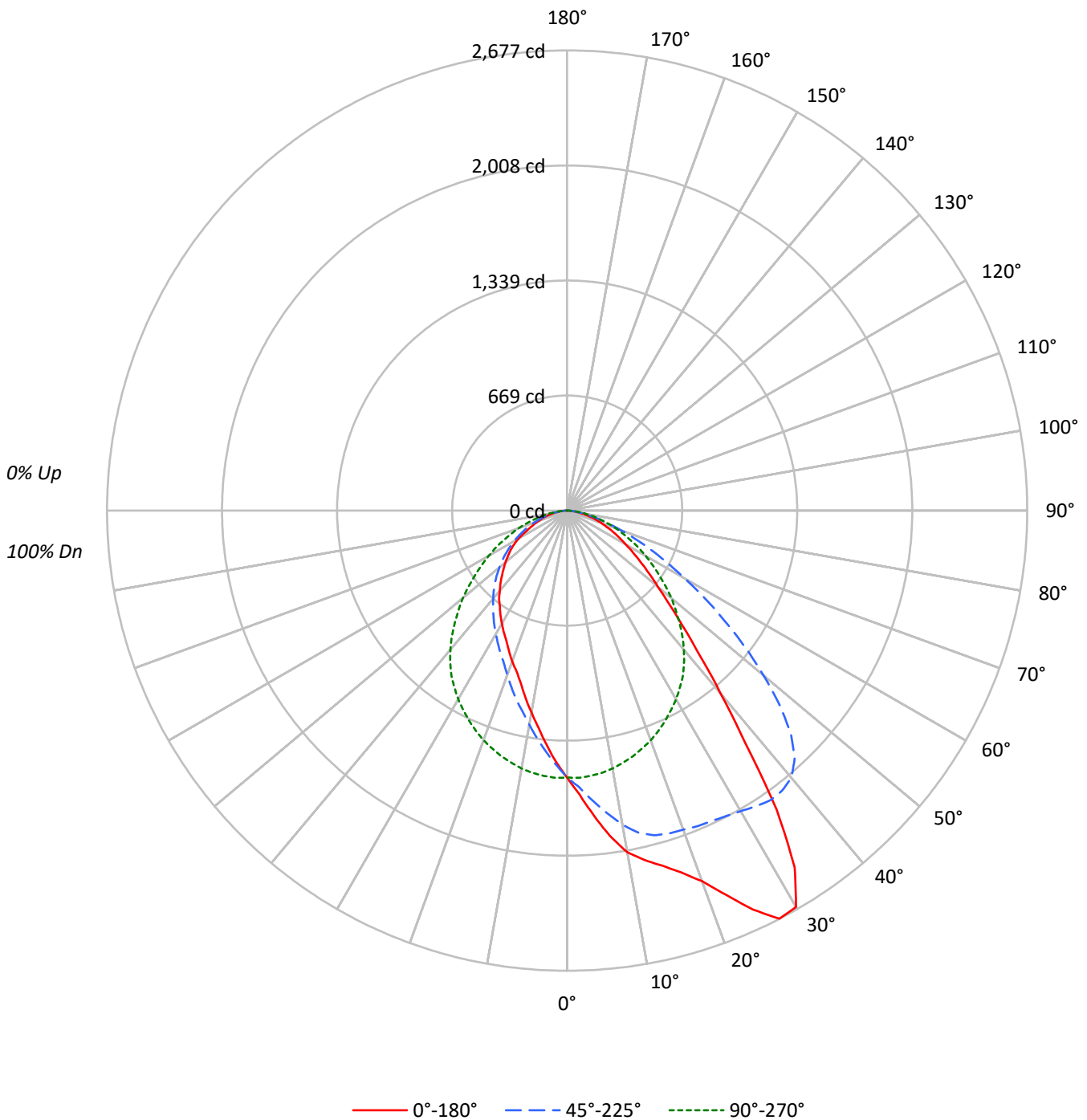
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4024.2 lumens  
Efficiency: N/A  
Efficacy: 115.6 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1.21 / 1.48  
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 34.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

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### Luminous Intensity Polar Plot





TEST NUMBER: P242916

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**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  |    |    |    |    | 86  |   |  |   |
| 2   | 101 | 93  | 87  | 82  | 98  | 91  | 86  | 81  | 88  | 83  | 79  | 85  | 81  | 77  | 82  | 78  | 75  | 73  |    |    |    |    | 73  |   |  |   |
| 3   | 92  | 83  | 75  | 69  | 90  | 81  | 74  | 69  | 78  | 72  | 67  | 76  | 70  | 66  | 73  | 69  | 65  | 63  |    |    |    |    | 63  |   |  |   |
| 4   | 85  | 74  | 66  | 59  | 83  | 73  | 65  | 59  | 70  | 63  | 58  | 68  | 62  | 57  | 66  | 61  | 57  | 55  |    |    |    |    | 55  |   |  |   |
| 5   | 79  | 66  | 58  | 52  | 77  | 65  | 57  | 51  | 63  | 56  | 51  | 61  | 55  | 50  | 60  | 54  | 50  | 48  |    |    |    |    | 48  |   |  |   |
| 6   | 73  | 60  | 52  | 45  | 71  | 59  | 51  | 45  | 57  | 50  | 45  | 56  | 49  | 44  | 54  | 49  | 44  | 42  |    |    |    |    | 42  |   |  |   |
| 7   | 68  | 55  | 46  | 40  | 66  | 54  | 46  | 40  | 52  | 45  | 40  | 51  | 44  | 40  | 50  | 44  | 39  | 37  |    |    |    |    | 37  |   |  |   |
| 8   | 63  | 50  | 42  | 36  | 61  | 49  | 42  | 36  | 48  | 41  | 36  | 47  | 40  | 36  | 46  | 40  | 35  | 34  |    |    |    |    | 34  |   |  |   |
| 9   | 59  | 46  | 38  | 33  | 58  | 45  | 38  | 33  | 44  | 37  | 32  | 43  | 37  | 32  | 42  | 36  | 32  | 30  |    |    |    |    | 30  |   |  |   |
| 10  | 55  | 42  | 35  | 30  | 54  | 42  | 35  | 30  | 41  | 34  | 30  | 40  | 34  | 29  | 39  | 33  | 29  | 28  |    |    |    |    | 28  |   |  |   |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   | 135°  | 180°  |
|-----|-------|-------|-------|-------|-------|
| 0°  | 11039 | 11039 | 11039 | 11039 | 11039 |
| 5°  | 12700 | 12073 | 11053 | 10044 | 9762  |
| 10° | 14568 | 13390 | 10997 | 9129  | 8614  |
| 15° | 15735 | 14389 | 10884 | 8384  | 7656  |
| 20° | 17351 | 14939 | 10754 | 7697  | 7070  |
| 25° | 20080 | 15625 | 10580 | 7195  | 6560  |
| 30° | 21852 | 16566 | 10397 | 6797  | 6227  |
| 35° | 18432 | 17857 | 10184 | 6483  | 5919  |
| 40° | 12872 | 18823 | 9802  | 6212  | 5655  |
| 45° | 9549  | 18521 | 9286  | 5953  | 5396  |
| 50° | 7614  | 16504 | 8748  | 5676  | 5175  |
| 55° | 6462  | 13857 | 8082  | 5388  | 4978  |
| 60° | 5584  | 11230 | 7485  | 5058  | 4658  |
| 65° | 4975  | 8964  | 6841  | 4685  | 4011  |
| 70° | 4372  | 6876  | 6267  | 4254  | 3657  |
| 75° | 3781  | 5130  | 5429  | 3781  | 3433  |
| 80° | 2869  | 3680  | 4568  | 3364  | 2869  |
| 85° | 2389  | 2601  | 3588  | 2862  | 2707  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 18521 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 148.9  | 3.7       |
| 10°-20°   | 436.7  | 10.9      |
| 20°-30°   | 692.4  | 17.2      |
| 30°-40°   | 836.6  | 20.8      |
| 40°-50°   | 745.0  | 18.5      |
| 50°-60°   | 571.3  | 14.2      |
| 60°-70°   | 371.0  | 9.2       |
| 70°-80°   | 180.0  | 4.5       |
| 80°-90°   | 42.3   | 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°    | 1277.9 | 31.8      |
| 0°-40°    | 2114.6 | 52.5      |
| 0°-60°    | 3430.8 | 85.3      |
| 0°-90°    | 4024.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4024.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1553 | 1553 | 1553 | 1553 | 1553 |      |
| 5°  | 1780 | 1692 | 1549 | 1408 | 1368 | 177  |
| 15° | 2138 | 1956 | 1479 | 1139 | 1040 | 612  |
| 25° | 2560 | 1992 | 1349 | 918  | 836  | 1179 |
| 35° | 2124 | 2058 | 1174 | 747  | 682  | 1288 |
| 45° | 950  | 1843 | 924  | 592  | 537  | 753  |
| 55° | 522  | 1118 | 652  | 435  | 402  | 472  |
| 65° | 296  | 533  | 407  | 279  | 238  | 294  |
| 75° | 138  | 187  | 198  | 138  | 125  | 146  |
| 85° | 29   | 32   | 44   | 35   | 33   | 35   |
| 90° | 0    | 0    | 0    | 0    | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1553.2 | 1553.2 | 1553.2 | 1553.2 | 1553.2 | 1553.2 | 1553.2 | 1553.2 | 1553.2 | 1553.2 | 1553.2 |
| 2.5°  | 1653.9 | 1652.6 | 1655.2 | 1648.2 | 1648.8 | 1638.0 | 1638.0 | 1629.7 | 1618.8 | 1610.5 | 1606.7 |
| 5°    | 1780.1 | 1781.4 | 1778.9 | 1769.3 | 1762.9 | 1753.4 | 1742.5 | 1723.4 | 1707.5 | 1692.2 | 1680.0 |
| 7.5°  | 1908.9 | 1910.2 | 1901.9 | 1900.0 | 1883.4 | 1873.2 | 1849.0 | 1824.1 | 1802.5 | 1773.8 | 1753.4 |
| 10°   | 2018.6 | 2018.0 | 2009.0 | 2002.0 | 1988.0 | 1970.1 | 1946.5 | 1915.9 | 1887.3 | 1855.4 | 1824.8 |
| 12.5° | 2082.4 | 2080.4 | 2079.2 | 2070.2 | 2057.5 | 2042.2 | 2023.1 | 1993.1 | 1956.1 | 1920.4 | 1883.4 |
| 15°   | 2138.5 | 2134.0 | 2125.7 | 2114.9 | 2096.4 | 2077.9 | 2055.6 | 2028.8 | 1995.0 | 1955.5 | 1922.3 |
| 17.5° | 2206.0 | 2206.7 | 2193.9 | 2182.5 | 2158.2 | 2127.6 | 2094.5 | 2053.7 | 2010.3 | 1970.1 | 1937.0 |
| 20°   | 2294.0 | 2292.1 | 2279.4 | 2250.0 | 2221.3 | 2180.5 | 2141.0 | 2088.1 | 2032.0 | 1975.2 | 1931.2 |
| 22.5° | 2420.3 | 2414.5 | 2401.1 | 2360.3 | 2311.9 | 2256.4 | 2190.7 | 2123.2 | 2052.4 | 1986.1 | 1924.9 |
| 25°   | 2560.5 | 2556.7 | 2530.6 | 2485.9 | 2423.5 | 2342.5 | 2263.4 | 2174.8 | 2077.3 | 1992.5 | 1922.3 |
| 27.5° | 2676.6 | 2668.9 | 2645.3 | 2603.3 | 2542.1 | 2454.7 | 2345.7 | 2230.9 | 2114.9 | 2003.3 | 1907.0 |
| 30°   | 2662.6 | 2672.1 | 2669.6 | 2652.4 | 2609.0 | 2532.5 | 2433.7 | 2300.4 | 2155.7 | 2018.6 | 1898.1 |
| 32.5° | 2462.4 | 2470.6 | 2499.3 | 2545.9 | 2559.9 | 2540.8 | 2473.2 | 2352.7 | 2201.6 | 2040.9 | 1891.1 |
| 35°   | 2124.4 | 2135.9 | 2179.3 | 2247.5 | 2336.7 | 2411.3 | 2426.6 | 2360.3 | 2225.8 | 2058.1 | 1884.1 |
| 37.5° | 1694.7 | 1769.3 | 1798.6 | 1868.1 | 2008.4 | 2144.2 | 2262.2 | 2288.9 | 2216.2 | 2054.3 | 1875.8 |
| 40°   | 1387.4 | 1402.7 | 1467.7 | 1548.7 | 1662.2 | 1805.0 | 1993.1 | 2128.9 | 2133.4 | 2028.8 | 1849.0 |
| 42.5° | 1137.5 | 1157.9 | 1197.4 | 1258.0 | 1351.0 | 1493.9 | 1689.6 | 1879.6 | 1982.3 | 1958.7 | 1813.9 |
| 45°   | 950.0  | 964.7  | 997.2  | 1046.9 | 1121.5 | 1239.5 | 1406.5 | 1613.7 | 1778.2 | 1842.6 | 1745.7 |
| 47.5° | 803.4  | 811.0  | 841.0  | 881.1  | 938.5  | 1027.8 | 1163.6 | 1351.0 | 1546.8 | 1677.5 | 1652.0 |
| 50°   | 688.6  | 697.5  | 719.2  | 747.9  | 794.4  | 867.1  | 970.4  | 1120.2 | 1323.6 | 1492.6 | 1526.4 |
| 52.5° | 599.3  | 606.3  | 617.8  | 644.6  | 680.9  | 732.6  | 811.0  | 943.0  | 1120.9 | 1303.2 | 1392.5 |
| 55°   | 521.5  | 526.6  | 537.5  | 552.8  | 583.4  | 623.6  | 695.6  | 789.3  | 937.2  | 1118.3 | 1233.1 |
| 57.5° | 455.2  | 457.8  | 464.2  | 479.5  | 501.8  | 531.7  | 586.6  | 672.0  | 779.1  | 949.4  | 1075.6 |
| 60°   | 392.8  | 395.3  | 404.2  | 413.8  | 430.4  | 457.1  | 498.0  | 553.4  | 655.4  | 790.0  | 918.1  |
| 62.5° | 343.0  | 344.3  | 346.8  | 356.4  | 370.4  | 389.6  | 419.5  | 462.2  | 538.1  | 652.2  | 771.5  |
| 65°   | 295.8  | 296.5  | 297.8  | 305.4  | 314.3  | 329.6  | 350.7  | 382.6  | 443.8  | 533.0  | 640.1  |
| 67.5° | 248.7  | 249.9  | 254.4  | 256.9  | 267.8  | 275.4  | 288.8  | 314.3  | 361.5  | 425.3  | 512.0  |
| 70°   | 210.4  | 209.8  | 214.2  | 217.4  | 220.6  | 230.2  | 238.5  | 258.2  | 285.0  | 330.9  | 400.4  |
| 72.5° | 174.7  | 172.8  | 174.1  | 174.7  | 179.2  | 184.9  | 193.2  | 203.4  | 222.5  | 250.6  | 299.7  |
| 75°   | 137.7  | 138.4  | 138.4  | 139.6  | 142.8  | 145.4  | 147.9  | 154.3  | 165.8  | 186.8  | 215.5  |
| 77.5° | 103.3  | 102.0  | 105.2  | 105.2  | 107.8  | 110.9  | 112.9  | 115.4  | 119.9  | 129.4  | 146.6  |
| 80°   | 70.1   | 70.1   | 70.8   | 72.7   | 72.0   | 73.3   | 76.5   | 79.1   | 84.8   | 89.9   | 95.0   |
| 82.5° | 49.7   | 49.1   | 49.7   | 49.7   | 49.7   | 51.0   | 51.6   | 51.6   | 52.9   | 54.8   | 58.0   |
| 85°   | 29.3   | 29.3   | 30.0   | 30.0   | 30.6   | 30.6   | 31.2   | 31.2   | 31.2   | 31.9   | 32.5   |
| 87.5° | 14.0   | 13.4   | 12.8   | 12.8   | 13.4   | 14.7   | 14.0   | 13.4   | 13.4   | 13.4   | 14.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1553.2 | 1553.2 | 1553.2 | 1553.2 | 1553.2 | 1553.2 | 1553.2 | 1553.2 | 1553.2 | 1553.2 | 1553.2 |
| 2.5°  | 1606.7 | 1602.3 | 1594.0 | 1586.3 | 1576.7 | 1568.5 | 1562.7 | 1555.7 | 1546.8 | 1535.9 | 1527.0 |
| 5°    | 1666.6 | 1652.6 | 1634.1 | 1618.2 | 1597.8 | 1581.8 | 1565.3 | 1549.3 | 1533.4 | 1513.0 | 1495.1 |
| 7.5°  | 1733.0 | 1705.5 | 1680.0 | 1646.9 | 1616.9 | 1590.8 | 1565.3 | 1539.1 | 1514.3 | 1486.2 | 1460.1 |
| 10°   | 1792.9 | 1757.8 | 1718.9 | 1674.3 | 1633.5 | 1594.6 | 1558.9 | 1523.8 | 1486.8 | 1454.3 | 1419.3 |
| 12.5° | 1849.0 | 1801.2 | 1755.3 | 1696.0 | 1645.0 | 1595.2 | 1547.4 | 1501.5 | 1461.3 | 1416.7 | 1378.5 |
| 15°   | 1878.3 | 1833.7 | 1784.0 | 1715.1 | 1646.9 | 1589.5 | 1535.9 | 1479.2 | 1430.1 | 1382.9 | 1340.8 |
| 17.5° | 1895.5 | 1848.4 | 1791.0 | 1724.0 | 1650.7 | 1579.3 | 1511.7 | 1451.1 | 1395.0 | 1340.8 | 1294.3 |
| 20°   | 1887.9 | 1842.6 | 1783.3 | 1720.2 | 1640.5 | 1565.3 | 1490.7 | 1421.8 | 1357.4 | 1299.4 | 1249.0 |
| 22.5° | 1869.4 | 1822.2 | 1765.5 | 1697.9 | 1623.3 | 1542.3 | 1461.3 | 1386.7 | 1318.5 | 1258.0 | 1201.8 |
| 25°   | 1850.9 | 1787.2 | 1728.5 | 1663.5 | 1591.4 | 1512.4 | 1430.1 | 1349.1 | 1277.1 | 1215.9 | 1155.9 |
| 27.5° | 1833.1 | 1755.9 | 1683.2 | 1620.7 | 1543.6 | 1472.2 | 1391.8 | 1308.3 | 1233.1 | 1171.2 | 1110.0 |
| 30°   | 1806.9 | 1717.7 | 1635.4 | 1562.1 | 1490.0 | 1423.1 | 1347.9 | 1266.9 | 1189.1 | 1124.7 | 1062.2 |
| 32.5° | 1774.4 | 1678.1 | 1585.7 | 1498.3 | 1429.5 | 1363.2 | 1296.8 | 1220.3 | 1145.1 | 1078.2 | 1014.4 |
| 35°   | 1748.3 | 1627.1 | 1528.9 | 1439.0 | 1361.9 | 1297.5 | 1236.3 | 1173.8 | 1097.9 | 1029.1 | 967.2  |
| 37.5° | 1711.9 | 1578.7 | 1467.7 | 1369.5 | 1289.2 | 1225.4 | 1176.3 | 1117.0 | 1046.3 | 979.3  | 921.9  |
| 40°   | 1679.4 | 1525.1 | 1400.8 | 1303.9 | 1218.4 | 1150.2 | 1104.9 | 1056.5 | 993.4  | 931.5  | 874.1  |
| 42.5° | 1636.0 | 1476.0 | 1333.2 | 1231.2 | 1145.1 | 1080.1 | 1034.2 | 993.4  | 943.0  | 885.6  | 823.1  |
| 45°   | 1576.7 | 1409.7 | 1263.7 | 1155.3 | 1068.6 | 1004.2 | 961.5  | 923.9  | 883.7  | 830.1  | 776.6  |
| 47.5° | 1506.0 | 1346.6 | 1192.9 | 1073.7 | 990.2  | 929.6  | 887.5  | 856.3  | 826.9  | 780.4  | 726.2  |
| 50°   | 1417.4 | 1265.0 | 1115.8 | 1001.0 | 910.5  | 853.7  | 814.8  | 791.2  | 765.1  | 723.7  | 680.3  |
| 52.5° | 1312.8 | 1180.8 | 1035.4 | 917.5  | 833.3  | 781.0  | 744.1  | 720.5  | 700.1  | 668.2  | 627.4  |
| 55°   | 1201.8 | 1082.6 | 948.7  | 842.2  | 763.8  | 710.3  | 674.6  | 652.2  | 639.5  | 610.8  | 578.3  |
| 57.5° | 1076.2 | 984.4  | 863.3  | 759.4  | 688.6  | 635.0  | 608.3  | 588.5  | 573.8  | 552.8  | 528.6  |
| 60°   | 943.6  | 883.7  | 777.9  | 680.3  | 616.5  | 566.2  | 542.6  | 526.6  | 513.3  | 496.0  | 478.2  |
| 62.5° | 809.1  | 769.6  | 680.9  | 600.6  | 543.2  | 503.1  | 481.4  | 467.3  | 451.4  | 441.2  | 424.0  |
| 65°   | 691.8  | 652.9  | 589.1  | 523.5  | 469.3  | 435.5  | 419.5  | 406.8  | 397.2  | 384.5  | 372.3  |
| 67.5° | 561.7  | 543.9  | 496.7  | 447.6  | 408.1  | 375.5  | 361.5  | 351.3  | 340.5  | 332.8  | 323.9  |
| 70°   | 443.8  | 436.1  | 404.9  | 374.9  | 338.6  | 318.2  | 305.4  | 301.6  | 287.6  | 279.9  | 274.2  |
| 72.5° | 339.2  | 336.6  | 322.0  | 303.5  | 280.5  | 263.3  | 251.8  | 247.4  | 239.7  | 234.0  | 230.8  |
| 75°   | 246.7  | 248.0  | 244.8  | 231.4  | 221.9  | 210.4  | 200.2  | 197.7  | 191.3  | 186.2  | 183.0  |
| 77.5° | 168.3  | 174.7  | 173.4  | 172.8  | 168.3  | 160.0  | 155.6  | 153.7  | 146.6  | 144.7  | 144.1  |
| 80°   | 107.1  | 114.1  | 120.5  | 119.9  | 118.6  | 116.7  | 113.5  | 111.6  | 108.4  | 106.5  | 105.2  |
| 82.5° | 62.5   | 68.9   | 74.0   | 78.4   | 78.4   | 76.5   | 74.6   | 74.0   | 74.0   | 72.7   | 72.7   |
| 85°   | 33.8   | 35.1   | 37.0   | 41.4   | 44.6   | 45.3   | 44.6   | 44.0   | 42.1   | 42.7   | 43.4   |
| 87.5° | 14.7   | 14.7   | 15.3   | 15.3   | 14.7   | 17.9   | 19.8   | 20.4   | 19.1   | 17.9   | 16.6   |
| 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: P242916

CATALOG NUMBER: S125RDRP-S1090D835-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

|       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1553.2 | 1553.2 | 1553.2 | 1553.2 | 1553.2 | 1553.2 | 1553.2 | 1553.2 | 1553.2 | 1553.2 | 1553.2 |
| 2.5°  | 1520.6 | 1511.7 | 1505.3 | 1492.6 | 1483.7 | 1479.8 | 1472.8 | 1470.9 | 1477.9 | 1472.8 | 1472.2 |
| 5°    | 1481.7 | 1463.3 | 1448.6 | 1433.9 | 1418.0 | 1407.8 | 1392.5 | 1389.9 | 1386.1 | 1380.4 | 1379.1 |
| 7.5°  | 1436.5 | 1413.5 | 1396.3 | 1372.1 | 1352.3 | 1336.4 | 1317.3 | 1309.6 | 1305.8 | 1298.8 | 1287.3 |
| 10°   | 1390.6 | 1361.9 | 1336.4 | 1312.1 | 1286.0 | 1265.0 | 1245.8 | 1231.2 | 1221.6 | 1212.7 | 1208.9 |
| 12.5° | 1345.3 | 1316.0 | 1281.5 | 1250.9 | 1221.0 | 1196.7 | 1175.1 | 1166.8 | 1155.9 | 1145.1 | 1134.9 |
| 15°   | 1298.1 | 1259.2 | 1223.5 | 1189.7 | 1164.9 | 1139.4 | 1119.0 | 1104.9 | 1089.0 | 1084.5 | 1067.3 |
| 17.5° | 1247.8 | 1211.4 | 1169.3 | 1133.0 | 1104.9 | 1078.2 | 1055.8 | 1039.3 | 1027.1 | 1009.9 | 1001.6 |
| 20°   | 1201.2 | 1155.9 | 1115.1 | 1082.6 | 1050.7 | 1017.6 | 994.6  | 981.2  | 969.8  | 956.4  | 950.0  |
| 22.5° | 1151.5 | 1107.5 | 1065.4 | 1025.9 | 993.4  | 960.8  | 946.2  | 932.1  | 918.8  | 906.6  | 897.7  |
| 25°   | 1103.0 | 1058.4 | 1014.4 | 974.9  | 941.1  | 917.5  | 898.4  | 882.4  | 875.4  | 863.3  | 854.4  |
| 27.5° | 1054.6 | 1007.4 | 962.8  | 921.3  | 895.2  | 871.6  | 856.3  | 843.5  | 830.1  | 819.3  | 811.0  |
| 30°   | 1008.0 | 959.6  | 909.8  | 878.6  | 850.5  | 828.2  | 811.0  | 798.9  | 789.3  | 779.8  | 774.0  |
| 32.5° | 961.5  | 911.1  | 868.4  | 834.0  | 807.8  | 789.3  | 771.5  | 760.0  | 749.8  | 739.0  | 731.9  |
| 35°   | 911.1  | 860.1  | 824.4  | 791.2  | 765.1  | 747.2  | 735.1  | 718.6  | 710.3  | 702.6  | 695.6  |
| 37.5° | 865.8  | 817.4  | 777.9  | 749.2  | 724.9  | 707.7  | 691.8  | 683.5  | 672.7  | 666.3  | 660.5  |
| 40°   | 814.8  | 771.5  | 736.4  | 705.8  | 689.2  | 669.5  | 654.8  | 643.3  | 635.7  | 626.7  | 620.4  |
| 42.5° | 768.9  | 729.4  | 695.6  | 668.8  | 647.1  | 631.2  | 617.2  | 605.7  | 595.5  | 589.8  | 584.7  |
| 45°   | 726.2  | 686.0  | 652.9  | 627.4  | 608.3  | 592.3  | 577.7  | 571.9  | 559.2  | 551.5  | 549.0  |
| 47.5° | 681.6  | 645.2  | 612.7  | 589.1  | 569.4  | 554.7  | 540.7  | 527.9  | 521.5  | 513.9  | 510.1  |
| 50°   | 636.3  | 601.9  | 571.9  | 549.0  | 529.8  | 513.3  | 500.5  | 492.9  | 483.3  | 476.3  | 471.2  |
| 52.5° | 591.0  | 559.8  | 529.8  | 508.2  | 492.2  | 475.6  | 461.0  | 453.3  | 444.4  | 440.6  | 437.4  |
| 55°   | 548.3  | 514.5  | 489.0  | 467.3  | 450.1  | 434.8  | 421.4  | 413.8  | 408.1  | 403.6  | 402.3  |
| 57.5° | 499.2  | 471.8  | 447.6  | 428.5  | 410.0  | 395.3  | 383.2  | 376.2  | 371.1  | 370.4  | 366.0  |
| 60°   | 451.4  | 427.2  | 405.5  | 384.5  | 369.2  | 355.8  | 345.6  | 337.3  | 332.2  | 331.5  | 330.3  |
| 62.5° | 403.6  | 380.6  | 360.9  | 343.0  | 329.6  | 316.9  | 307.3  | 297.8  | 295.2  | 291.4  | 288.2  |
| 65°   | 356.4  | 335.4  | 318.8  | 304.1  | 289.5  | 278.6  | 269.1  | 263.3  | 256.3  | 252.5  | 245.5  |
| 67.5° | 309.9  | 292.7  | 276.7  | 264.6  | 252.5  | 241.6  | 233.4  | 225.1  | 220.0  | 216.8  | 211.0  |
| 70°   | 264.0  | 251.2  | 235.3  | 221.9  | 213.0  | 204.7  | 198.3  | 188.7  | 185.5  | 183.0  | 180.4  |
| 72.5° | 220.6  | 209.8  | 197.0  | 186.8  | 177.9  | 170.2  | 162.6  | 159.4  | 156.2  | 153.7  | 152.4  |
| 75°   | 180.4  | 169.6  | 158.1  | 150.5  | 144.1  | 137.7  | 133.9  | 130.7  | 129.4  | 128.8  | 126.2  |
| 77.5° | 140.3  | 133.9  | 124.3  | 117.3  | 112.9  | 110.3  | 106.5  | 105.2  | 105.8  | 102.7  | 102.0  |
| 80°   | 101.4  | 98.2   | 90.5   | 88.0   | 84.8   | 82.2   | 80.3   | 77.1   | 74.0   | 72.7   | 70.8   |
| 82.5° | 68.9   | 65.7   | 63.8   | 59.3   | 56.7   | 55.5   | 53.6   | 52.9   | 54.2   | 52.3   | 51.6   |
| 85°   | 40.2   | 37.0   | 35.7   | 35.1   | 33.8   | 35.1   | 34.4   | 33.8   | 33.2   | 32.5   | 33.2   |
| 87.5° | 15.9   | 15.9   | 15.3   | 16.6   | 14.7   | 15.3   | 15.3   | 14.7   | 14.7   | 14.7   | 14.0   |
| 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: P242916

CATALOG NUMBER: S125RDRP-S1090D835-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

|       | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 1553.2 | 1553.2 | 1553.2 | 1553.2 |
| 2.5°  | 1471.5 | 1464.5 | 1462.6 | 1465.2 |
| 5°    | 1372.7 | 1366.3 | 1369.5 | 1368.3 |
| 7.5°  | 1289.2 | 1280.9 | 1271.3 | 1273.9 |
| 10°   | 1200.6 | 1194.2 | 1190.4 | 1193.6 |
| 12.5° | 1126.0 | 1122.8 | 1119.6 | 1117.0 |
| 15°   | 1059.7 | 1052.0 | 1048.8 | 1040.5 |
| 17.5° | 995.9  | 993.4  | 985.1  | 979.3  |
| 20°   | 940.4  | 937.9  | 929.6  | 934.7  |
| 22.5° | 894.5  | 888.2  | 886.9  | 883.7  |
| 25°   | 851.8  | 843.5  | 840.3  | 836.5  |
| 27.5° | 808.5  | 804.0  | 799.5  | 798.3  |
| 30°   | 766.4  | 761.9  | 758.7  | 758.7  |
| 32.5° | 728.8  | 725.6  | 722.4  | 721.7  |
| 35°   | 692.4  | 687.3  | 686.0  | 682.2  |
| 37.5° | 654.2  | 649.7  | 649.7  | 650.3  |
| 40°   | 617.8  | 614.6  | 614.0  | 609.5  |
| 42.5° | 578.9  | 577.7  | 575.1  | 573.8  |
| 45°   | 544.5  | 540.0  | 540.0  | 536.8  |
| 47.5° | 508.2  | 504.3  | 505.0  | 501.1  |
| 50°   | 471.8  | 469.9  | 469.3  | 468.0  |
| 52.5° | 435.5  | 434.8  | 438.0  | 434.8  |
| 55°   | 403.6  | 401.7  | 405.5  | 401.7  |
| 57.5° | 366.0  | 364.7  | 368.5  | 366.0  |
| 60°   | 329.0  | 325.2  | 327.1  | 327.7  |
| 62.5° | 285.0  | 283.1  | 284.4  | 280.5  |
| 65°   | 244.2  | 242.3  | 239.7  | 238.5  |
| 67.5° | 212.3  | 206.6  | 206.6  | 207.9  |
| 70°   | 176.6  | 176.6  | 176.0  | 176.0  |
| 72.5° | 151.7  | 151.1  | 149.8  | 149.2  |
| 75°   | 126.2  | 126.9  | 125.6  | 125.0  |
| 77.5° | 98.8   | 95.6   | 96.9   | 95.6   |
| 80°   | 70.8   | 70.1   | 72.0   | 70.1   |
| 82.5° | 52.3   | 51.6   | 52.3   | 51.0   |
| 85°   | 33.8   | 33.2   | 32.5   | 33.2   |
| 87.5° | 14.7   | 14.0   | 14.0   | 14.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |



TEST NUMBER: P242916  
 CATALOG NUMBER: S125RDRP-S1090D835-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 | 17.97            | 19.50 | 18.33 | 19.82 | 20.13 | 18.95          | 20.48 | 19.31 | 20.79 | 21.11 |
|                 | 3H   | 19.10            | 20.47 | 19.47 | 20.80 | 21.16 | 20.42          | 21.80 | 20.80 | 22.13 | 22.49 |
|                 | 4H   | 19.48            | 20.77 | 19.88 | 21.12 | 21.50 | 20.94          | 22.23 | 21.34 | 22.58 | 22.95 |
|                 | 6H   | 19.71            | 20.90 | 20.12 | 21.27 | 21.66 | 21.29          | 22.48 | 21.70 | 22.84 | 23.24 |
|                 | 8H   | 19.77            | 20.90 | 20.19 | 21.29 | 21.69 | 21.38          | 22.52 | 21.81 | 22.91 | 23.31 |
|                 | 12H  | 19.80            | 20.89 | 20.23 | 21.27 | 21.70 | 21.44          | 22.53 | 21.87 | 22.91 | 23.34 |
| 4H              | 2H   | 19.56            | 20.85 | 19.96 | 21.20 | 21.57 | 19.79          | 21.09 | 20.19 | 21.43 | 21.81 |
|                 | 3H   | 20.62            | 21.69 | 21.03 | 22.09 | 22.50 | 21.46          | 22.53 | 21.87 | 22.93 | 23.33 |
|                 | 4H   | 21.01            | 21.97 | 21.44 | 22.39 | 22.82 | 22.04          | 23.00 | 22.47 | 23.42 | 23.86 |
|                 | 6H   | 21.26            | 22.10 | 21.72 | 22.54 | 23.00 | 22.47          | 23.31 | 22.93 | 23.75 | 24.21 |
|                 | 8H   | 21.32            | 22.11 | 21.79 | 22.55 | 23.02 | 22.59          | 23.37 | 23.06 | 23.82 | 24.29 |
|                 | 12H  | 21.37            | 22.07 | 21.85 | 22.55 | 23.02 | 22.67          | 23.37 | 23.16 | 23.85 | 24.32 |
| 8H              | 4H   | 21.38            | 22.16 | 21.84 | 22.61 | 23.07 | 22.19          | 22.97 | 22.65 | 23.42 | 23.88 |
|                 | 6H   | 21.69            | 22.33 | 22.18 | 22.82 | 23.30 | 22.71          | 23.35 | 23.20 | 23.84 | 24.32 |
|                 | 8H   | 21.78            | 22.36 | 22.29 | 22.87 | 23.36 | 22.88          | 23.46 | 23.40 | 23.97 | 24.46 |
|                 | 12H  | 21.86            | 22.37 | 22.37 | 22.86 | 23.43 | 23.02          | 23.53 | 23.53 | 24.02 | 24.59 |
| 12H             | 4H   | 21.41            | 22.10 | 21.89 | 22.58 | 23.05 | 22.18          | 22.88 | 22.66 | 23.36 | 23.83 |
|                 | 6H   | 21.72            | 22.30 | 22.23 | 22.81 | 23.30 | 22.70          | 23.28 | 23.21 | 23.79 | 24.28 |
|                 | 8H   | 21.85            | 22.36 | 22.36 | 22.86 | 23.42 | 22.91          | 23.43 | 23.42 | 23.92 | 24.48 |