

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: P242630

Luminaire Tested: S124DRP-S795D927-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P242630  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124DRP-S795D927-X4F0-XX-UDD-A-W  
Description: DEFINE 4 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER  
STANDARD LIGHT ENGINE  
Light Source: (92) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

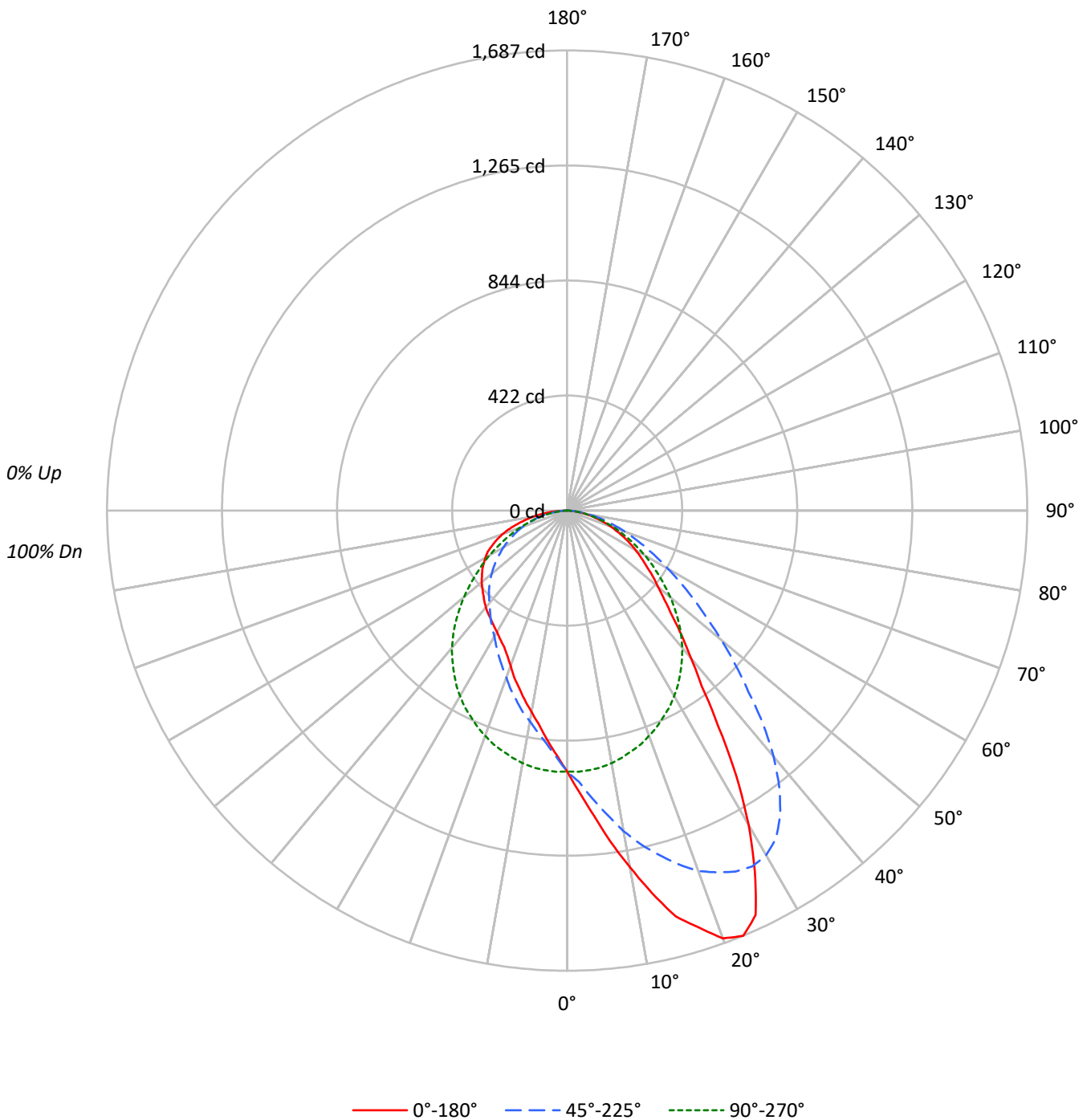
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2638.5 lumens  
Efficiency: N/A  
Efficacy: 99.9 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.22 / 1.41  
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 26.4  
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: P242630

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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 | 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  | 98  | 95  | 93  | 95  | 92  | 90  | 91  | 89  | 87  | 85  |    |    |    | 85  |
| 2   | 100 | 92  | 86  | 80  | 98  | 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  | 64  | 62  |    |    |    | 62  |
| 4   | 84  | 73  | 64  | 58  | 82  | 72  | 64  | 58  | 69  | 62  | 57  | 67  | 61  | 56  | 65  | 60  | 55  | 53  |    |    |    | 53  |
| 5   | 78  | 65  | 57  | 50  | 76  | 64  | 56  | 50  | 62  | 55  | 50  | 60  | 54  | 49  | 58  | 53  | 49  | 46  |    |    |    | 46  |
| 6   | 72  | 59  | 51  | 44  | 70  | 58  | 50  | 44  | 56  | 49  | 44  | 55  | 48  | 43  | 53  | 47  | 43  | 41  |    |    |    | 41  |
| 7   | 67  | 54  | 45  | 39  | 65  | 53  | 45  | 39  | 52  | 44  | 39  | 50  | 44  | 39  | 49  | 43  | 38  | 36  |    |    |    | 36  |
| 8   | 62  | 49  | 41  | 35  | 61  | 49  | 41  | 35  | 47  | 40  | 35  | 46  | 40  | 35  | 45  | 39  | 35  | 33  |    |    |    | 33  |
| 9   | 58  | 45  | 37  | 32  | 57  | 45  | 37  | 32  | 44  | 37  | 32  | 43  | 36  | 32  | 42  | 36  | 31  | 30  |    |    |    | 30  |
| 10  | 55  | 42  | 34  | 29  | 54  | 41  | 34  | 29  | 40  | 34  | 29  | 39  | 33  | 29  | 39  | 33  | 29  | 27  |    |    |    | 27  |

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

|     | 0°    | 45°   | 90°  | 135° | 180° |
|-----|-------|-------|------|------|------|
| 0°  | 8500  | 8500  | 8500 | 8500 | 8500 |
| 5°  | 10009 | 9455  | 8521 | 7658 | 7521 |
| 10° | 11984 | 10772 | 8484 | 7086 | 6771 |
| 15° | 14179 | 12032 | 8398 | 6619 | 6218 |
| 20° | 15789 | 13301 | 8310 | 6160 | 5725 |
| 25° | 16045 | 14323 | 8182 | 5800 | 5384 |
| 30° | 13652 | 14969 | 8058 | 5476 | 5277 |
| 35° | 10497 | 14782 | 7857 | 5300 | 5278 |
| 40° | 8181  | 13660 | 7620 | 5152 | 5377 |
| 45° | 6821  | 11820 | 7265 | 5089 | 5467 |
| 50° | 6003  | 10193 | 6830 | 4995 | 5653 |
| 55° | 5500  | 8771  | 6311 | 4905 | 5881 |
| 60° | 5154  | 7591  | 5845 | 4780 | 6155 |
| 65° | 4798  | 6632  | 5323 | 4623 | 6381 |
| 70° | 4384  | 5858  | 4808 | 4499 | 6526 |
| 75° | 3919  | 5049  | 4231 | 4204 | 6446 |
| 80° | 3286  | 4095  | 3466 | 3834 | 6245 |
| 85° | 2427  | 3111  | 2509 | 3559 | 5977 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 55°  
 Vertical Angle: 45°  
 Luminance: 13051 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 93.1   | 3.5       |
| 10°-20°   | 287.2  | 10.9      |
| 20°-30°   | 456.3  | 17.3      |
| 30°-40°   | 507.0  | 19.2      |
| 40°-50°   | 461.1  | 17.5      |
| 50°-60°   | 376.8  | 14.3      |
| 60°-70°   | 269.0  | 10.2      |
| 70°-80°   | 148.0  | 5.6       |
| 80°-90°   | 40.0   | 1.5       |
| 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°    | 836.6  | 31.7      |
| 0°-40°    | 1343.6 | 50.9      |
| 0°-60°    | 2181.5 | 82.7      |
| 0°-90°    | 2638.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2638.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 956  | 956  | 956 | 956  | 956  |      |
| 5°  | 1122 | 1060 | 955 | 858  | 843  | 114  |
| 15° | 1541 | 1308 | 913 | 719  | 676  | 435  |
| 25° | 1636 | 1460 | 834 | 591  | 549  | 726  |
| 35° | 967  | 1362 | 724 | 488  | 486  | 612  |
| 45° | 543  | 940  | 578 | 405  | 435  | 426  |
| 55° | 355  | 566  | 407 | 316  | 380  | 320  |
| 65° | 228  | 315  | 253 | 220  | 303  | 226  |
| 75° | 114  | 147  | 123 | 122  | 188  | 121  |
| 85° | 24   | 30   | 25  | 35   | 59   | 29   |
| 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°    | 956.2  | 956.2  | 956.2  | 956.2  | 956.2  | 956.2  | 956.2  | 956.2  | 956.2  | 956.2  | 956.2  |
| 2.5°  | 1033.0 | 1032.6 | 1028.7 | 1027.9 | 1025.1 | 1021.5 | 1020.7 | 1014.4 | 1001.7 | 995.8  | 994.2  |
| 5°    | 1121.7 | 1129.7 | 1119.4 | 1117.4 | 1116.2 | 1103.1 | 1096.4 | 1088.5 | 1070.2 | 1059.6 | 1051.2 |
| 7.5°  | 1225.5 | 1225.9 | 1221.6 | 1217.2 | 1209.7 | 1198.6 | 1183.5 | 1166.1 | 1145.1 | 1123.7 | 1108.7 |
| 10°   | 1327.7 | 1330.9 | 1325.7 | 1324.9 | 1304.7 | 1292.1 | 1266.7 | 1245.3 | 1220.8 | 1193.4 | 1168.5 |
| 12.5° | 1435.4 | 1429.1 | 1427.1 | 1406.1 | 1406.5 | 1380.8 | 1350.3 | 1328.1 | 1286.9 | 1254.4 | 1219.2 |
| 15°   | 1540.8 | 1532.1 | 1526.5 | 1503.2 | 1491.7 | 1459.6 | 1428.3 | 1404.2 | 1354.6 | 1307.5 | 1271.9 |
| 17.5° | 1601.8 | 1612.5 | 1598.2 | 1588.7 | 1557.4 | 1536.4 | 1505.2 | 1455.6 | 1418.8 | 1360.2 | 1319.4 |
| 20°   | 1669.1 | 1669.9 | 1662.8 | 1652.9 | 1629.5 | 1601.0 | 1566.2 | 1510.7 | 1464.4 | 1406.1 | 1344.3 |
| 22.5° | 1687.4 | 1687.4 | 1685.4 | 1676.3 | 1660.0 | 1638.2 | 1603.0 | 1559.0 | 1500.4 | 1435.8 | 1374.0 |
| 25°   | 1635.9 | 1634.3 | 1637.8 | 1648.1 | 1641.4 | 1634.3 | 1614.1 | 1579.6 | 1527.3 | 1460.4 | 1393.9 |
| 27.5° | 1490.1 | 1500.4 | 1521.8 | 1547.1 | 1565.4 | 1581.6 | 1580.4 | 1565.8 | 1528.5 | 1470.7 | 1399.8 |
| 30°   | 1330.1 | 1343.5 | 1358.6 | 1384.0 | 1433.1 | 1461.2 | 1492.1 | 1515.5 | 1502.4 | 1458.4 | 1393.5 |
| 32.5° | 1154.2 | 1155.0 | 1179.2 | 1208.9 | 1252.8 | 1313.4 | 1366.9 | 1420.4 | 1443.4 | 1425.5 | 1374.0 |
| 35°   | 967.3  | 972.8  | 997.0  | 1025.5 | 1080.5 | 1146.7 | 1220.4 | 1286.1 | 1340.4 | 1362.2 | 1334.4 |
| 37.5° | 810.4  | 827.8  | 846.1  | 878.5  | 928.8  | 988.6  | 1067.9 | 1149.9 | 1229.5 | 1277.8 | 1282.9 |
| 40°   | 705.0  | 714.9  | 727.2  | 750.6  | 791.8  | 850.4  | 916.2  | 1013.6 | 1099.6 | 1177.2 | 1202.5 |
| 42.5° | 621.9  | 626.6  | 633.0  | 653.6  | 682.5  | 740.7  | 799.3  | 882.1  | 968.4  | 1065.1 | 1111.8 |
| 45°   | 542.6  | 548.6  | 561.3  | 573.5  | 597.3  | 637.7  | 693.6  | 764.1  | 850.8  | 940.3  | 1018.8 |
| 47.5° | 483.2  | 487.2  | 495.1  | 508.6  | 530.0  | 557.3  | 604.8  | 664.6  | 749.4  | 836.2  | 920.1  |
| 50°   | 434.1  | 437.3  | 443.2  | 455.1  | 470.6  | 494.3  | 531.6  | 586.6  | 649.6  | 737.1  | 819.1  |
| 52.5° | 395.3  | 396.1  | 400.1  | 407.2  | 418.7  | 437.7  | 466.6  | 509.8  | 567.2  | 642.9  | 724.5  |
| 55°   | 354.9  | 356.5  | 360.4  | 366.4  | 377.1  | 389.8  | 413.1  | 447.2  | 498.3  | 566.0  | 636.9  |
| 57.5° | 321.6  | 323.2  | 326.4  | 328.8  | 338.3  | 349.0  | 368.0  | 392.5  | 432.5  | 492.7  | 557.3  |
| 60°   | 289.9  | 289.1  | 293.1  | 295.1  | 301.0  | 309.7  | 323.6  | 347.0  | 380.6  | 427.0  | 485.2  |
| 62.5° | 259.0  | 257.9  | 261.0  | 263.8  | 266.6  | 273.7  | 284.4  | 301.4  | 327.2  | 368.0  | 416.3  |
| 65°   | 228.1  | 226.6  | 228.5  | 231.7  | 234.9  | 238.8  | 247.2  | 263.4  | 285.2  | 315.3  | 353.7  |
| 67.5° | 196.5  | 198.4  | 198.4  | 200.4  | 202.4  | 207.9  | 213.9  | 226.6  | 242.0  | 266.6  | 300.6  |
| 70°   | 168.7  | 169.1  | 170.7  | 170.7  | 171.9  | 176.7  | 181.4  | 188.1  | 203.2  | 225.4  | 251.9  |
| 72.5° | 141.0  | 143.0  | 141.8  | 143.4  | 144.2  | 147.0  | 150.1  | 156.5  | 168.7  | 183.8  | 205.2  |
| 75°   | 114.1  | 115.3  | 115.3  | 115.7  | 116.8  | 118.0  | 120.8  | 125.6  | 134.7  | 147.0  | 162.4  |
| 77.5° | 87.9   | 87.9   | 88.7   | 90.3   | 90.3   | 92.3   | 94.7   | 98.2   | 103.4  | 112.5  | 122.4  |
| 80°   | 64.2   | 65.0   | 64.6   | 65.4   | 65.4   | 66.9   | 67.7   | 72.5   | 74.5   | 80.0   | 87.5   |
| 82.5° | 42.8   | 43.6   | 43.6   | 44.8   | 45.6   | 45.6   | 46.7   | 47.9   | 49.9   | 54.7   | 56.6   |
| 85°   | 23.8   | 24.6   | 23.8   | 24.6   | 25.7   | 26.1   | 27.3   | 27.7   | 29.3   | 30.5   | 33.3   |
| 87.5° | 8.7    | 9.9    | 9.9    | 10.3   | 11.1   | 11.5   | 11.9   | 11.5   | 13.1   | 13.5   | 15.1   |
| 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°    | 956.2  | 956.2  | 956.2  | 956.2  | 956.2  | 956.2 | 956.2 | 956.2 | 956.2 | 956.2 | 956.2 |
| 2.5°  | 994.6  | 989.0  | 985.1  | 981.9  | 973.2  | 968.1 | 964.1 | 958.5 | 952.2 | 945.5 | 937.2 |
| 5°    | 1042.9 | 1029.4 | 1019.5 | 1004.5 | 990.2  | 978.4 | 966.1 | 955.0 | 941.5 | 926.9 | 916.2 |
| 7.5°  | 1092.4 | 1073.8 | 1048.9 | 1029.4 | 1006.1 | 985.9 | 968.1 | 949.4 | 929.6 | 910.6 | 892.8 |
| 10°   | 1139.2 | 1113.4 | 1084.9 | 1051.2 | 1019.5 | 991.4 | 965.3 | 939.9 | 915.4 | 890.8 | 869.8 |
| 12.5° | 1189.5 | 1155.8 | 1110.3 | 1069.5 | 1033.0 | 993.0 | 960.1 | 927.7 | 896.8 | 870.6 | 845.3 |
| 15°   | 1233.4 | 1187.1 | 1138.4 | 1085.7 | 1039.0 | 995.0 | 951.8 | 912.6 | 879.3 | 845.3 | 821.5 |
| 17.5° | 1261.2 | 1203.7 | 1151.4 | 1096.4 | 1042.5 | 987.5 | 942.7 | 898.7 | 857.5 | 824.3 | 794.6 |
| 20°   | 1288.5 | 1231.5 | 1162.1 | 1107.1 | 1039.7 | 982.7 | 928.8 | 878.5 | 835.0 | 798.9 | 768.0 |
| 22.5° | 1312.3 | 1244.1 | 1174.8 | 1098.0 | 1031.0 | 969.6 | 909.4 | 858.7 | 814.0 | 775.6 | 746.2 |
| 25°   | 1317.8 | 1242.1 | 1166.9 | 1094.8 | 1018.8 | 947.1 | 893.6 | 834.2 | 786.6 | 746.6 | 714.9 |
| 27.5° | 1319.8 | 1239.8 | 1156.2 | 1077.8 | 999.3  | 934.0 | 864.3 | 812.4 | 763.3 | 720.9 | 690.8 |
| 30°   | 1315.4 | 1231.1 | 1139.6 | 1052.8 | 974.0  | 901.5 | 842.9 | 785.1 | 734.8 | 692.8 | 661.1 |
| 32.5° | 1301.6 | 1212.8 | 1118.2 | 1025.1 | 942.7  | 872.2 | 811.2 | 756.9 | 708.2 | 667.0 | 633.4 |
| 35°   | 1272.3 | 1185.5 | 1085.3 | 989.8  | 906.3  | 834.6 | 779.9 | 724.1 | 674.9 | 635.7 | 603.6 |
| 37.5° | 1233.0 | 1152.2 | 1050.4 | 951.0  | 870.6  | 797.7 | 742.7 | 691.2 | 646.8 | 606.4 | 573.1 |
| 40°   | 1178.4 | 1109.5 | 1007.3 | 911.0  | 822.3  | 753.8 | 703.1 | 656.7 | 612.8 | 575.1 | 543.8 |
| 42.5° | 1115.4 | 1057.6 | 965.3  | 861.9  | 777.1  | 708.2 | 659.1 | 618.7 | 577.9 | 543.8 | 512.5 |
| 45°   | 1038.2 | 998.6  | 909.8  | 815.6  | 726.4  | 661.5 | 614.3 | 577.9 | 543.0 | 509.0 | 482.8 |
| 47.5° | 952.2  | 930.0  | 852.8  | 762.5  | 676.9  | 612.0 | 571.2 | 536.3 | 504.6 | 474.9 | 451.5 |
| 50°   | 865.5  | 856.0  | 791.4  | 705.0  | 624.2  | 564.0 | 522.8 | 493.9 | 467.8 | 442.4 | 420.7 |
| 52.5° | 779.9  | 781.9  | 725.2  | 648.0  | 574.7  | 517.3 | 476.5 | 450.0 | 428.2 | 408.8 | 389.8 |
| 55°   | 692.4  | 703.5  | 657.9  | 587.4  | 520.5  | 468.2 | 431.3 | 407.2 | 391.3 | 374.3 | 359.7 |
| 57.5° | 612.0  | 630.6  | 591.0  | 526.4  | 469.8  | 419.9 | 387.4 | 368.8 | 351.3 | 340.2 | 328.8 |
| 60°   | 533.5  | 551.0  | 521.7  | 469.4  | 416.7  | 375.5 | 345.0 | 328.8 | 314.1 | 307.0 | 299.4 |
| 62.5° | 463.8  | 478.9  | 459.1  | 411.5  | 367.6  | 328.4 | 303.8 | 288.4 | 279.6 | 271.7 | 267.4 |
| 65°   | 398.1  | 411.1  | 392.5  | 357.3  | 318.1  | 286.4 | 265.4 | 253.1 | 243.6 | 240.4 | 234.9 |
| 67.5° | 333.1  | 345.0  | 335.1  | 304.2  | 270.9  | 246.0 | 229.3 | 216.3 | 210.7 | 207.6 | 204.0 |
| 70°   | 276.5  | 288.4  | 277.7  | 251.5  | 227.4  | 207.2 | 191.7 | 185.0 | 179.0 | 177.8 | 172.3 |
| 72.5° | 228.5  | 235.7  | 225.0  | 206.0  | 186.2  | 169.9 | 158.8 | 151.7 | 149.3 | 147.0 | 144.6 |
| 75°   | 178.6  | 185.8  | 178.6  | 162.8  | 148.1  | 136.3 | 126.0 | 123.2 | 119.6 | 118.4 | 116.5 |
| 77.5° | 133.9  | 140.6  | 135.1  | 124.4  | 112.9  | 103.0 | 97.0  | 93.1  | 92.7  | 90.3  | 91.1  |
| 80°   | 96.6   | 100.6  | 95.5   | 88.7   | 80.0   | 73.7  | 69.7  | 67.7  | 65.4  | 64.6  | 66.1  |
| 82.5° | 62.6   | 63.8   | 61.8   | 57.8   | 51.9   | 48.3  | 45.9  | 43.6  | 43.6  | 44.0  | 43.6  |
| 85°   | 36.0   | 35.6   | 35.3   | 31.3   | 29.3   | 26.5  | 25.0  | 24.6  | 24.2  | 25.0  | 25.7  |
| 87.5° | 15.1   | 15.4   | 15.1   | 13.5   | 12.3   | 11.1  | 10.7  | 10.3  | 10.7  | 11.1  | 11.5  |
| 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: P242630

CATALOG NUMBER: S124DRP-S795D927-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

|       | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  | 160°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 956.2 | 956.2 | 956.2 | 956.2 | 956.2 | 956.2 | 956.2 | 956.2 | 956.2 | 956.2 | 956.2 |
| 2.5°  | 933.2 | 929.6 | 924.5 | 917.4 | 911.4 | 905.1 | 903.5 | 901.1 | 905.9 | 901.9 | 900.7 |
| 5°    | 907.1 | 898.7 | 888.0 | 875.8 | 868.6 | 858.3 | 856.4 | 852.4 | 848.4 | 848.0 | 844.1 |
| 7.5°  | 879.7 | 868.2 | 854.8 | 842.1 | 831.0 | 819.9 | 812.8 | 812.0 | 805.7 | 802.5 | 798.5 |
| 10°   | 853.6 | 838.5 | 822.3 | 810.4 | 796.9 | 785.1 | 776.7 | 772.0 | 768.0 | 763.7 | 759.7 |
| 12.5° | 822.7 | 806.4 | 793.8 | 780.7 | 764.1 | 755.7 | 740.7 | 731.6 | 731.6 | 732.8 | 720.9 |
| 15°   | 800.1 | 784.3 | 763.7 | 745.4 | 736.7 | 719.3 | 711.8 | 702.3 | 696.3 | 690.4 | 685.6 |
| 17.5° | 772.4 | 753.0 | 737.1 | 716.5 | 700.3 | 687.2 | 676.9 | 671.8 | 662.3 | 653.6 | 647.6 |
| 20°   | 746.6 | 725.6 | 708.6 | 686.4 | 668.2 | 651.2 | 642.9 | 634.9 | 628.2 | 621.1 | 614.3 |
| 22.5° | 720.5 | 698.3 | 676.5 | 655.1 | 638.5 | 620.3 | 612.4 | 600.9 | 594.5 | 591.4 | 584.6 |
| 25°   | 692.8 | 669.0 | 645.2 | 624.6 | 607.2 | 591.4 | 580.7 | 572.4 | 565.2 | 562.1 | 557.7 |
| 27.5° | 662.7 | 639.3 | 616.7 | 593.0 | 572.8 | 561.3 | 552.6 | 545.8 | 541.5 | 536.7 | 534.7 |
| 30°   | 634.1 | 609.6 | 585.0 | 563.2 | 545.0 | 533.5 | 525.6 | 521.3 | 518.1 | 516.1 | 514.1 |
| 32.5° | 605.2 | 581.1 | 554.9 | 535.5 | 519.7 | 509.8 | 504.2 | 499.9 | 498.7 | 498.3 | 497.9 |
| 35°   | 573.9 | 549.4 | 525.6 | 507.8 | 492.3 | 488.4 | 483.2 | 480.9 | 480.1 | 482.8 | 484.0 |
| 37.5° | 543.8 | 520.9 | 498.7 | 480.9 | 470.6 | 464.2 | 462.2 | 461.8 | 464.6 | 467.0 | 469.8 |
| 40°   | 514.9 | 492.7 | 472.1 | 457.1 | 447.6 | 444.0 | 443.2 | 445.2 | 448.4 | 451.2 | 454.3 |
| 42.5° | 486.8 | 465.0 | 446.8 | 432.9 | 427.0 | 423.8 | 424.6 | 426.6 | 431.3 | 434.9 | 440.1 |
| 45°   | 457.5 | 439.3 | 421.0 | 409.6 | 404.0 | 404.8 | 404.8 | 408.4 | 412.7 | 417.9 | 423.0 |
| 47.5° | 430.2 | 411.5 | 396.1 | 386.2 | 383.4 | 382.2 | 384.2 | 389.0 | 394.9 | 400.8 | 408.0 |
| 50°   | 402.4 | 385.0 | 371.9 | 363.2 | 360.0 | 361.2 | 364.4 | 368.8 | 376.3 | 384.2 | 391.7 |
| 52.5° | 374.3 | 358.9 | 347.0 | 339.1 | 337.1 | 339.5 | 342.6 | 350.1 | 356.5 | 365.2 | 374.7 |
| 55°   | 345.0 | 331.5 | 322.0 | 316.1 | 315.3 | 316.5 | 320.0 | 327.6 | 337.1 | 347.8 | 356.5 |
| 57.5° | 316.1 | 304.6 | 295.5 | 291.1 | 291.5 | 292.3 | 297.9 | 307.0 | 316.5 | 328.0 | 339.1 |
| 60°   | 286.8 | 276.5 | 269.3 | 266.2 | 266.6 | 268.9 | 276.1 | 284.4 | 297.1 | 308.2 | 320.0 |
| 62.5° | 259.0 | 250.3 | 243.6 | 240.8 | 240.0 | 246.0 | 252.7 | 261.4 | 274.1 | 286.8 | 299.8 |
| 65°   | 228.9 | 221.8 | 216.3 | 214.7 | 215.9 | 219.8 | 228.5 | 240.0 | 250.7 | 263.8 | 277.3 |
| 67.5° | 199.6 | 193.7 | 189.7 | 190.5 | 191.7 | 197.3 | 204.8 | 214.7 | 226.6 | 240.0 | 253.9 |
| 70°   | 171.9 | 166.4 | 163.2 | 163.6 | 166.0 | 173.1 | 179.4 | 189.3 | 202.4 | 216.3 | 227.4 |
| 72.5° | 143.4 | 140.2 | 137.4 | 139.4 | 141.8 | 146.2 | 154.5 | 164.4 | 175.5 | 188.1 | 200.0 |
| 75°   | 114.5 | 114.5 | 112.9 | 114.1 | 117.6 | 122.4 | 128.3 | 138.6 | 150.1 | 160.4 | 169.9 |
| 77.5° | 89.9  | 88.7  | 89.5  | 90.7  | 93.1  | 99.0  | 105.8 | 113.3 | 122.4 | 133.1 | 141.0 |
| 80°   | 65.0  | 65.4  | 67.3  | 69.7  | 70.5  | 74.9  | 82.0  | 88.7  | 95.5  | 104.2 | 111.7 |
| 82.5° | 44.8  | 45.2  | 45.9  | 49.1  | 49.9  | 54.7  | 58.6  | 65.4  | 71.3  | 76.4  | 82.4  |
| 85°   | 26.5  | 26.5  | 28.5  | 29.7  | 31.7  | 34.9  | 37.6  | 41.6  | 47.1  | 51.1  | 57.0  |
| 87.5° | 12.7  | 12.7  | 14.3  | 15.1  | 16.2  | 18.2  | 19.0  | 23.4  | 25.0  | 26.9  | 30.5  |
| 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: P242630

CATALOG NUMBER: S124DRP-S795D927-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

|       | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|
| 0°    | 956.2 | 956.2 | 956.2 | 956.2 |
| 2.5°  | 899.9 | 899.1 | 896.4 | 896.0 |
| 5°    | 841.7 | 839.7 | 838.5 | 842.9 |
| 7.5°  | 797.7 | 796.1 | 792.6 | 791.4 |
| 10°   | 755.7 | 754.2 | 751.0 | 750.2 |
| 12.5° | 715.3 | 711.8 | 711.8 | 713.0 |
| 15°   | 680.5 | 678.9 | 674.5 | 675.7 |
| 17.5° | 644.8 | 643.3 | 637.3 | 643.3 |
| 20°   | 611.6 | 608.4 | 605.6 | 605.2 |
| 22.5° | 579.9 | 577.1 | 577.5 | 574.3 |
| 25°   | 554.5 | 551.8 | 551.0 | 549.0 |
| 27.5° | 533.9 | 532.3 | 530.8 | 531.6 |
| 30°   | 515.3 | 514.9 | 514.1 | 514.1 |
| 32.5° | 499.9 | 499.9 | 500.7 | 500.7 |
| 35°   | 485.6 | 486.8 | 487.6 | 486.4 |
| 37.5° | 472.9 | 473.7 | 474.9 | 476.1 |
| 40°   | 457.9 | 460.7 | 461.4 | 463.4 |
| 42.5° | 443.6 | 446.8 | 449.2 | 449.2 |
| 45°   | 429.0 | 432.1 | 434.9 | 434.9 |
| 47.5° | 413.9 | 418.3 | 421.0 | 421.4 |
| 50°   | 398.5 | 404.0 | 406.8 | 408.8 |
| 52.5° | 383.4 | 389.0 | 392.9 | 393.7 |
| 55°   | 365.6 | 373.5 | 377.9 | 379.5 |
| 57.5° | 349.8 | 356.9 | 361.6 | 362.8 |
| 60°   | 330.7 | 338.7 | 345.0 | 346.2 |
| 62.5° | 311.3 | 319.6 | 325.2 | 328.8 |
| 65°   | 288.4 | 296.7 | 302.2 | 303.4 |
| 67.5° | 264.2 | 272.9 | 276.5 | 278.8 |
| 70°   | 238.4 | 245.2 | 249.1 | 251.1 |
| 72.5° | 209.1 | 216.3 | 221.0 | 221.0 |
| 75°   | 179.0 | 185.4 | 187.7 | 187.7 |
| 77.5° | 147.7 | 151.3 | 154.5 | 155.3 |
| 80°   | 117.6 | 119.6 | 122.0 | 122.0 |
| 82.5° | 86.7  | 88.3  | 90.7  | 90.3  |
| 85°   | 56.2  | 59.8  | 59.4  | 58.6  |
| 87.5° | 31.7  | 32.1  | 33.3  | 34.1  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   |



TEST NUMBER: P242630  
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**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 | 17.40            | 18.96 | 17.77 | 19.28 | 19.59 | 18.31          | 19.88 | 18.68 | 20.19 | 20.50 |
|                 | 3H   | 18.89            | 20.29 | 19.26 | 20.62 | 20.98 | 19.68          | 21.09 | 20.06 | 21.41 | 21.77 |
|                 | 4H   | 19.42            | 20.75 | 19.82 | 21.09 | 21.47 | 20.15          | 21.47 | 20.55 | 21.82 | 22.20 |
|                 | 6H   | 19.78            | 21.01 | 20.20 | 21.37 | 21.76 | 20.46          | 21.68 | 20.87 | 22.05 | 22.44 |
|                 | 8H   | 19.89            | 21.05 | 20.31 | 21.44 | 21.84 | 20.54          | 21.71 | 20.97 | 22.10 | 22.50 |
|                 | 12H  | 19.94            | 21.06 | 20.37 | 21.44 | 21.87 | 20.58          | 21.70 | 21.01 | 22.08 | 22.51 |
| 4H              | 2H   | 18.56            | 19.89 | 18.96 | 20.23 | 20.61 | 19.00          | 20.32 | 19.40 | 20.67 | 21.05 |
|                 | 3H   | 20.09            | 21.20 | 20.50 | 21.59 | 21.99 | 20.71          | 21.81 | 21.12 | 22.21 | 22.61 |
|                 | 4H   | 20.68            | 21.67 | 21.11 | 22.09 | 22.53 | 21.30          | 22.29 | 21.73 | 22.71 | 23.14 |
|                 | 6H   | 21.11            | 21.97 | 21.56 | 22.42 | 22.87 | 21.69          | 22.56 | 22.15 | 23.00 | 23.46 |
|                 | 8H   | 21.23            | 22.04 | 21.69 | 22.49 | 22.95 | 21.80          | 22.61 | 22.26 | 23.05 | 23.52 |
|                 | 12H  | 21.31            | 22.03 | 21.79 | 22.51 | 22.98 | 21.86          | 22.59 | 22.34 | 23.07 | 23.54 |
| 8H              | 4H   | 21.14            | 21.95 | 21.60 | 22.39 | 22.86 | 21.61          | 22.42 | 22.07 | 22.86 | 23.33 |
|                 | 6H   | 21.64            | 22.31 | 22.14 | 22.80 | 23.28 | 22.14          | 22.81 | 22.63 | 23.30 | 23.78 |
|                 | 8H   | 21.81            | 22.42 | 22.32 | 22.92 | 23.41 | 22.30          | 22.90 | 22.81 | 23.41 | 23.90 |
|                 | 12H  | 21.94            | 22.47 | 22.44 | 22.96 | 23.52 | 22.42          | 22.95 | 22.92 | 23.44 | 24.00 |
| 12H             | 4H   | 21.18            | 21.91 | 21.67 | 22.39 | 22.86 | 21.64          | 22.37 | 22.12 | 22.85 | 23.32 |
|                 | 6H   | 21.72            | 22.32 | 22.23 | 22.83 | 23.32 | 22.19          | 22.80 | 22.71 | 23.31 | 23.79 |
|                 | 8H   | 21.94            | 22.47 | 22.44 | 22.96 | 23.52 | 22.42          | 22.95 | 22.92 | 23.44 | 24.00 |