

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: P243772

Luminaire Tested: S125RDRP-H1270D830-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P243772  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-71)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDRP-H1270D830-X4F0-XX-UDD-A-W  
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: (184) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

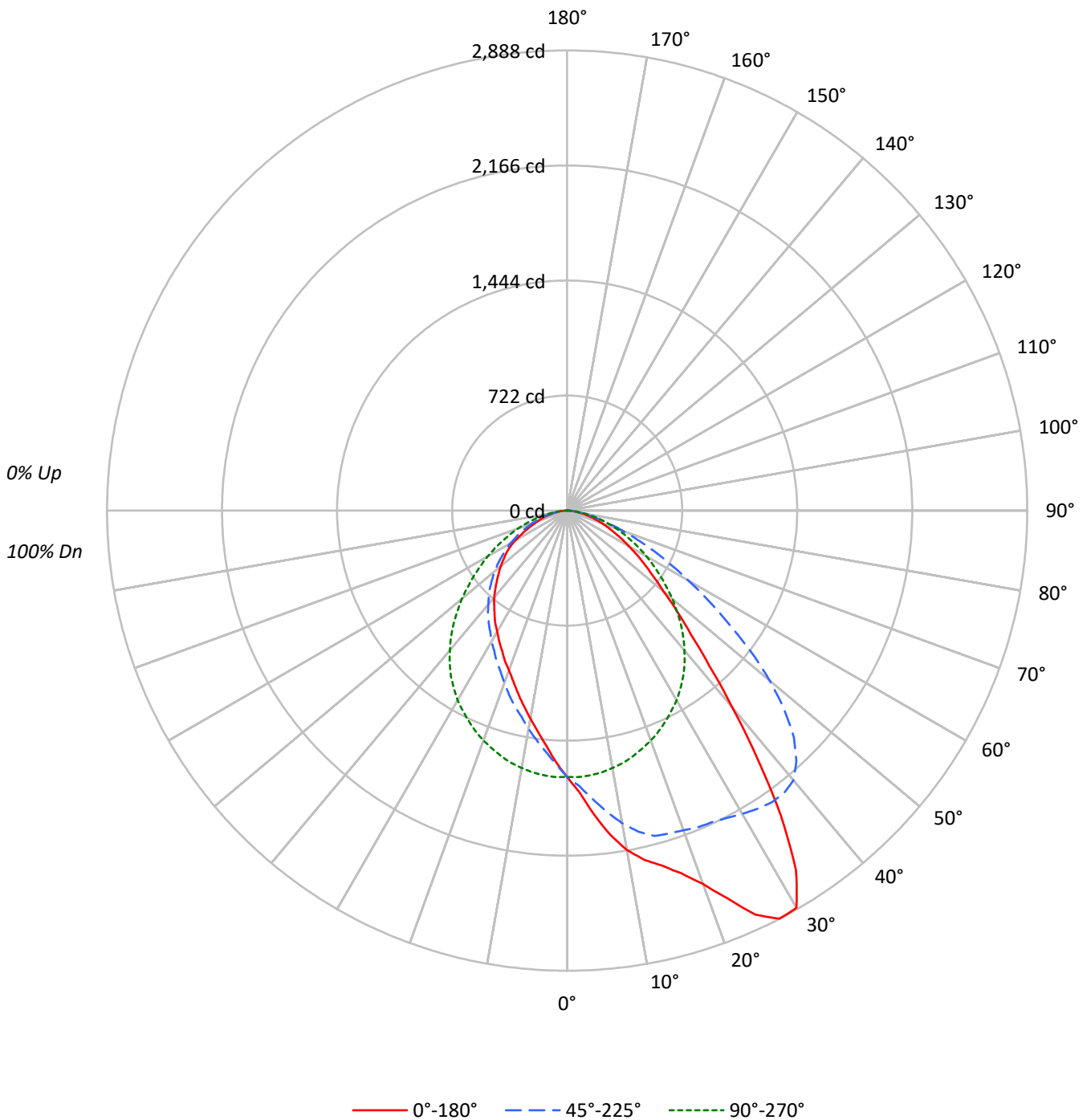
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4449.2 lumens  
Efficiency: N/A  
Efficacy: 118.0 lumens/watt  
Spacing Criteria (0/90/45): 1.42 / 1.22 / 1.5  
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 37.7  
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

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### Luminous Intensity Polar Plot



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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				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75					73				
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65					63				
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56					54				
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50					48				
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44					42				
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39					37				
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35					33				
9	59	46	38	32	57	45	38	32	44	37	32	43	37	32	42	36	32					30				
10	55	42	35	29	54	42	34	29	41	34	29	40	34	29	39	33	29					27				

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

	0°	45°	90°	135°	180°
0°	11882	11882	11882	11882	11882
5°	13639	12958	11899	10849	10584
10°	15605	14376	11840	10042	9568
15°	16974	15554	11745	9350	8750
20°	18861	16149	11611	8703	8062
25°	21948	16915	11446	8203	7590
30°	23632	18034	11277	7779	7202
35°	20302	19400	11025	7443	6890
40°	14957	20499	10627	7140	6605
45°	11046	20221	10134	6876	6263
50°	8752	18353	9528	6589	6011
55°	7393	15319	8830	6184	5783
60°	6370	12513	8179	5804	5352
65°	5530	10101	7447	5329	4660
70°	4848	7672	6818	4821	4077
75°	4114	5588	5970	4259	3858
80°	3201	4044	4993	3745	3201
85°	2813	2976	4004	3189	2919

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 20221 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.9	3.6
10°-20°	476.1	10.7
20°-30°	759.3	17.1
30°-40°	922.0	20.7
40°-50°	830.8	18.7
50°-60°	638.9	14.4
60°-70°	414.6	9.3
70°-80°	199.5	4.5
80°-90°	47.2	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°	1396.3	31.4
0°-40°	2318.3	52.1
0°-60°	3787.9	85.1
0°-90°	4449.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4449.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1672	1672	1672	1672	1672	
5°	1912	1816	1668	1521	1484	190
15°	2307	2114	1596	1271	1189	661
25°	2799	2157	1460	1046	968	1280
35°	2340	2236	1271	858	794	1431
45°	1099	2012	1008	684	623	873
55°	597	1236	713	499	467	541
65°	329	601	443	317	277	330
75°	150	204	217	155	140	161
85°	34	36	49	39	36	39
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°	1671.8	1671.8	1671.8	1671.8	1671.8	1671.8	1671.8	1671.8	1671.8	1671.8	1671.8
2.5°	1768.5	1775.2	1769.9	1773.2	1767.9	1765.2	1758.6	1748.7	1738.7	1729.4	1728.8
5°	1911.7	1910.4	1905.1	1897.8	1892.5	1879.2	1872.6	1850.1	1834.8	1816.3	1807.0
7.5°	2048.3	2045.0	2037.0	2027.1	2022.4	2005.2	1986.6	1958.1	1934.3	1905.1	1883.2
10°	2162.3	2161.6	2155.7	2149.0	2131.1	2111.9	2094.0	2064.2	2028.4	1991.9	1961.4
12.5°	2245.8	2242.5	2235.2	2223.9	2209.4	2196.1	2172.2	2145.1	2101.3	2064.2	2022.4
15°	2306.8	2305.5	2294.9	2290.9	2262.4	2243.8	2212.0	2184.8	2151.0	2113.9	2068.8
17.5°	2387.7	2390.3	2381.0	2358.5	2332.7	2304.1	2259.1	2214.7	2167.6	2124.5	2088.1
20°	2493.7	2487.1	2471.2	2444.0	2397.6	2362.5	2317.4	2262.4	2198.8	2135.1	2082.7
22.5°	2635.6	2628.3	2603.1	2570.0	2511.6	2447.3	2378.4	2296.2	2223.3	2150.4	2081.4
25°	2798.7	2784.7	2747.6	2711.8	2629.0	2560.7	2457.9	2359.8	2253.8	2157.0	2079.4
27.5°	2887.5	2887.5	2870.2	2831.1	2765.5	2664.8	2560.0	2429.4	2306.8	2174.2	2064.2
30°	2879.5	2874.9	2881.5	2864.9	2822.5	2746.9	2642.9	2505.7	2349.2	2197.4	2065.5
32.5°	2674.0	2676.0	2715.8	2743.0	2764.2	2745.6	2678.0	2554.1	2398.3	2220.0	2060.2
35°	2339.9	2345.2	2415.5	2461.9	2556.7	2611.1	2627.0	2560.0	2420.2	2235.9	2050.9
37.5°	1958.1	1958.1	2039.7	2109.9	2216.0	2349.9	2450.0	2475.2	2406.9	2235.2	2043.0
40°	1612.1	1610.1	1674.4	1760.6	1873.9	2021.8	2170.9	2298.8	2315.4	2209.4	2015.1
42.5°	1319.1	1315.8	1386.1	1433.8	1553.1	1685.0	1883.2	2064.2	2167.6	2129.2	1974.0
45°	1099.0	1096.4	1142.1	1196.5	1280.7	1417.9	1584.3	1785.1	1958.8	2011.8	1897.1
47.5°	933.3	934.7	959.2	1004.9	1076.5	1174.6	1323.8	1510.0	1724.8	1847.4	1800.4
50°	791.5	796.1	814.7	849.1	901.5	980.4	1108.3	1276.7	1497.4	1659.8	1669.8
52.5°	685.4	692.0	711.9	730.5	774.2	829.9	929.3	1075.2	1257.5	1452.4	1522.0
55°	596.6	599.9	611.2	631.1	663.5	709.9	782.2	893.6	1062.6	1236.3	1358.9
57.5°	522.3	522.3	529.6	543.6	569.4	611.2	659.6	751.7	894.2	1051.3	1181.9
60°	448.1	450.8	456.1	471.3	488.5	520.4	567.4	625.8	749.0	880.3	1020.8
62.5°	385.8	390.4	395.7	403.0	418.9	441.5	474.6	528.3	611.2	732.5	857.8
65°	328.8	333.4	334.1	342.7	353.3	371.9	397.1	436.2	505.1	600.6	704.0
67.5°	278.4	280.4	282.4	289.0	299.0	310.9	327.5	356.6	411.0	475.3	576.0
70°	233.3	234.7	235.3	242.6	247.3	257.9	266.5	285.0	319.5	369.2	447.4
72.5°	190.9	188.9	188.3	194.2	196.2	204.8	215.4	228.7	247.3	282.4	340.7
75°	149.8	150.5	151.1	154.4	155.1	159.1	165.7	174.3	183.0	203.5	240.6
77.5°	115.3	112.7	112.7	116.7	118.0	118.7	123.3	127.9	132.6	144.5	159.1
80°	78.2	79.5	79.5	79.5	80.2	81.5	84.2	88.2	91.5	98.8	101.4
82.5°	55.7	55.7	55.0	56.3	57.0	57.7	57.7	57.7	59.7	61.6	64.3
85°	34.5	35.1	33.1	34.5	35.1	35.1	35.1	35.1	37.1	36.5	37.1
87.5°	14.6	15.2	15.2	15.9	15.9	16.6	15.9	16.6	15.9	15.9	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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1671.8	1671.8	1671.8	1671.8	1671.8	1671.8	1671.8	1671.8	1671.8	1671.8	1671.8
2.5°	1726.8	1718.8	1714.9	1706.9	1696.3	1689.7	1683.0	1673.8	1666.5	1655.2	1645.3
5°	1790.4	1774.5	1759.9	1740.0	1720.8	1704.2	1687.0	1667.8	1650.6	1631.3	1610.8
7.5°	1861.3	1836.2	1805.7	1770.5	1740.7	1714.9	1685.7	1657.2	1631.3	1600.8	1573.0
10°	1929.6	1889.2	1848.8	1801.7	1757.9	1719.5	1680.4	1640.6	1606.8	1569.0	1534.6
12.5°	1982.7	1944.2	1883.9	1825.6	1768.5	1718.8	1669.8	1621.4	1577.0	1535.2	1494.1
15°	2029.1	1965.4	1914.4	1850.7	1781.1	1713.5	1652.5	1596.2	1542.5	1493.5	1451.7
17.5°	2042.3	1985.3	1929.6	1855.4	1780.5	1703.6	1633.3	1566.4	1506.7	1452.4	1405.3
20°	2041.0	1983.3	1923.0	1852.1	1772.5	1688.3	1610.1	1535.2	1467.6	1405.3	1354.9
22.5°	2021.1	1965.4	1904.4	1832.8	1752.0	1665.1	1582.9	1500.1	1426.5	1361.5	1309.8
25°	1999.9	1929.6	1866.0	1793.7	1716.8	1636.6	1549.1	1459.6	1382.8	1315.1	1256.8
27.5°	1981.3	1897.1	1818.9	1748.0	1669.1	1596.9	1510.0	1416.6	1337.7	1266.8	1206.4
30°	1951.5	1862.7	1767.9	1690.3	1614.1	1538.5	1459.0	1374.1	1288.0	1215.7	1155.4
32.5°	1925.6	1813.6	1710.9	1623.4	1547.1	1480.9	1404.6	1323.1	1238.9	1170.0	1105.0
35°	1897.1	1763.2	1655.9	1553.1	1476.9	1404.6	1344.3	1270.7	1187.2	1114.3	1056.0
37.5°	1863.3	1711.5	1588.2	1483.5	1404.6	1330.4	1276.0	1210.4	1134.8	1062.6	1004.9
40°	1825.6	1658.5	1516.7	1408.6	1323.8	1249.5	1203.8	1145.4	1081.1	1009.6	955.9
42.5°	1777.8	1602.2	1451.7	1333.7	1239.6	1172.6	1126.9	1078.5	1019.5	957.2	898.9
45°	1717.5	1531.9	1374.1	1249.5	1156.7	1091.8	1044.0	1008.2	961.2	902.8	847.8
47.5°	1643.9	1458.3	1294.6	1165.3	1075.8	1013.5	969.1	933.3	897.5	847.2	794.8
50°	1546.5	1374.1	1217.0	1085.1	990.3	930.0	890.2	861.7	829.3	788.2	740.4
52.5°	1439.1	1279.3	1125.6	1002.3	910.8	850.5	809.4	785.5	761.0	727.2	686.1
55°	1314.5	1184.6	1038.1	917.4	827.9	768.3	735.8	712.6	692.0	666.2	631.7
57.5°	1182.6	1068.6	941.3	829.9	745.7	689.4	660.9	641.7	624.4	605.9	577.4
60°	1044.0	963.2	842.5	740.4	666.9	620.4	593.3	575.4	559.5	544.2	523.0
62.5°	899.5	832.6	742.4	655.6	590.0	546.2	526.3	511.1	494.5	481.2	466.0
65°	753.0	714.6	652.3	570.7	510.4	474.6	455.4	442.8	434.8	419.6	407.7
67.5°	619.8	598.6	545.5	490.5	444.1	411.6	393.7	384.5	375.8	368.6	355.3
70°	493.2	477.9	447.4	408.3	371.9	344.0	330.8	328.1	316.2	308.9	302.3
72.5°	375.8	371.9	346.7	329.4	308.9	287.0	277.1	271.8	263.8	257.2	254.5
75°	267.1	273.1	265.1	256.5	246.6	228.7	220.1	217.4	210.1	208.1	204.8
77.5°	182.3	190.9	193.6	189.6	184.9	179.0	173.0	170.4	163.1	161.7	159.8
80°	114.7	127.3	131.9	131.2	129.3	129.9	122.6	122.0	118.7	116.7	118.7
82.5°	69.6	76.2	84.8	86.8	84.2	85.5	83.5	80.9	80.9	82.2	79.5
85°	37.8	38.4	42.4	45.1	48.4	51.0	48.4	49.1	48.4	48.4	46.4
87.5°	16.6	17.2	17.2	16.6	17.9	19.2	21.9	23.2	22.5	20.5	17.9
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1671.8	1671.8	1671.8	1671.8	1671.8	1671.8	1671.8	1671.8	1671.8	1671.8	1671.8
2.5°	1637.3	1632.7	1624.7	1618.1	1602.8	1592.2	1590.9	1591.6	1590.2	1588.9	1588.2
5°	1597.5	1582.3	1567.7	1555.1	1537.9	1520.6	1512.7	1509.4	1508.0	1500.7	1504.7
7.5°	1555.1	1531.9	1514.7	1490.8	1470.3	1455.7	1441.8	1435.1	1433.8	1423.9	1421.2
10°	1510.0	1482.2	1456.3	1432.5	1411.9	1391.4	1374.8	1368.8	1360.9	1352.9	1341.0
12.5°	1465.6	1431.1	1402.6	1376.1	1348.3	1325.1	1311.8	1303.2	1293.3	1286.0	1282.0
15°	1412.6	1383.4	1348.3	1319.8	1291.3	1270.7	1252.8	1236.9	1227.6	1221.7	1205.1
17.5°	1364.9	1326.4	1293.3	1266.1	1234.9	1211.7	1193.2	1179.9	1164.0	1152.1	1141.5
20°	1313.8	1274.0	1243.6	1211.1	1179.3	1150.7	1127.5	1116.9	1105.7	1094.4	1088.4
22.5°	1258.8	1224.3	1189.9	1156.1	1122.2	1091.8	1077.2	1061.9	1052.0	1040.7	1032.8
25°	1211.1	1173.3	1138.8	1101.0	1063.9	1046.0	1026.1	1010.9	1002.9	991.7	983.0
27.5°	1160.0	1123.6	1082.5	1043.4	1021.5	991.0	977.7	965.8	955.2	943.9	938.0
30°	1112.3	1069.9	1028.8	998.3	969.8	947.9	935.3	920.7	906.1	900.8	892.9
32.5°	1061.9	1016.2	980.4	949.9	926.0	899.5	887.6	875.7	861.7	855.1	847.8
35°	1009.6	965.1	930.0	902.2	877.6	857.8	844.5	831.9	823.3	813.3	808.0
37.5°	954.5	916.1	882.3	854.4	831.9	816.0	799.4	789.5	777.6	768.3	764.3
40°	902.2	867.7	835.2	809.4	788.8	769.6	755.0	742.4	735.1	727.2	720.5
42.5°	855.1	819.3	791.5	764.3	745.7	727.2	712.6	703.3	690.7	687.4	678.1
45°	804.7	771.6	743.7	718.6	699.3	684.1	666.9	655.6	647.6	639.7	636.4
47.5°	753.7	723.2	697.3	674.1	654.3	637.0	623.8	611.8	603.2	595.9	591.9
50°	704.0	677.5	651.6	629.1	608.5	595.9	580.0	566.8	560.1	552.2	547.5
52.5°	651.6	629.7	601.9	582.7	563.4	546.9	531.0	522.3	515.7	509.1	505.8
55°	602.6	579.4	555.5	534.9	516.4	499.1	486.5	479.9	471.3	467.3	466.7
57.5°	552.2	528.3	508.4	489.9	468.7	455.4	444.1	436.2	428.9	425.6	425.6
60°	497.2	477.9	459.4	438.8	423.6	408.3	396.4	391.1	383.8	382.5	377.8
62.5°	446.8	428.9	411.0	391.8	377.8	362.6	354.0	346.7	342.7	337.4	332.1
65°	394.4	378.5	361.3	344.7	333.4	316.9	308.9	300.3	295.6	289.7	283.0
67.5°	344.0	328.8	312.9	297.6	288.4	272.4	267.1	256.5	253.2	246.6	240.6
70°	291.0	280.4	267.8	252.6	244.6	232.0	226.7	216.8	211.5	207.5	204.2
72.5°	245.3	235.3	220.7	210.8	200.9	192.9	184.3	179.6	175.0	171.7	171.0
75°	200.2	187.6	179.0	169.7	163.1	155.1	151.1	147.8	145.8	143.8	141.9
77.5°	153.1	147.8	139.2	129.9	124.6	121.3	118.7	117.3	115.3	114.7	112.7
80°	114.0	106.7	101.4	98.1	94.1	91.5	89.5	84.8	82.2	80.9	79.5
82.5°	75.6	73.6	69.6	66.3	63.0	62.3	60.3	59.0	58.3	58.3	57.7
85°	45.7	40.4	40.4	39.8	39.8	39.1	37.8	37.8	36.5	38.4	38.4
87.5°	18.6	18.6	17.2	17.2	17.9	16.6	15.9	15.9	15.9	15.2	15.9
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: P243772

CATALOG NUMBER: S125RDRP-H1270D830-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1671.8	1671.8	1671.8	1671.8
2.5°	1588.2	1584.9	1585.6	1581.6
5°	1497.4	1495.4	1488.8	1483.5
7.5°	1414.6	1406.0	1405.3	1400.0
10°	1337.0	1329.1	1325.1	1325.7
12.5°	1269.4	1260.8	1260.8	1255.5
15°	1197.1	1188.5	1189.9	1189.2
17.5°	1137.5	1131.5	1126.9	1122.9
20°	1079.2	1071.9	1069.2	1065.9
22.5°	1025.5	1020.2	1020.8	1020.8
25°	974.4	975.1	969.1	967.8
27.5°	929.3	928.0	926.7	924.0
30°	886.9	881.6	880.3	877.6
32.5°	843.2	842.5	837.2	839.2
35°	798.8	796.8	795.4	794.1
37.5°	757.7	753.7	753.0	751.7
40°	715.9	714.6	708.6	711.9
42.5°	670.8	668.2	668.2	668.2
45°	633.0	625.8	625.8	623.1
47.5°	590.6	588.0	586.6	582.0
50°	548.9	544.9	543.6	543.6
52.5°	505.8	505.1	506.4	503.8
55°	468.0	468.7	468.0	466.7
57.5°	426.9	423.6	423.6	424.2
60°	377.8	377.8	379.2	376.5
62.5°	330.8	329.4	324.8	323.5
65°	282.4	277.1	276.4	277.1
67.5°	239.3	237.3	234.0	234.7
70°	202.2	201.5	198.2	196.2
72.5°	169.0	169.0	167.0	167.0
75°	141.2	139.9	139.2	140.5
77.5°	108.7	105.4	106.7	104.7
80°	78.9	80.2	78.9	78.2
82.5°	58.3	57.0	57.7	57.0
85°	37.1	35.8	36.5	35.8
87.5°	15.2	15.9	15.9	14.6
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243772

CATALOG NUMBER: S125RDRP-H1270D830-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	18.52	20.06	18.89	20.37	20.69	19.22	20.76	19.58	21.07	21.39
	3H	19.60	20.99	19.98	21.31	21.67	20.69	22.08	21.07	22.40	22.77
	4H	19.96	21.26	20.36	21.61	21.98	21.22	22.51	21.62	22.86	23.24
	6H	20.18	21.38	20.59	21.74	22.13	21.58	22.77	21.99	23.14	23.53
	8H	20.24	21.38	20.66	21.76	22.17	21.68	22.81	22.10	23.20	23.61
	12H	20.27	21.36	20.70	21.74	22.17	21.73	22.83	22.16	23.21	23.64
4H	2H	20.04	21.34	20.44	21.69	22.06	20.09	21.39	20.49	21.73	22.11
	3H	21.09	22.16	21.50	22.56	22.96	21.75	22.83	22.16	23.23	23.63
	4H	21.45	22.41	21.88	22.83	23.27	22.35	23.32	22.78	23.73	24.17
	6H	21.69	22.53	22.15	22.97	23.43	22.78	23.62	23.24	24.07	24.53
	8H	21.76	22.54	22.22	22.98	23.45	22.91	23.69	23.37	24.14	24.60
	12H	21.80	22.50	22.28	22.98	23.45	22.99	23.69	23.47	24.17	24.64
8H	4H	21.81	22.59	22.27	23.04	23.51	22.50	23.29	22.97	23.73	24.20
	6H	22.10	22.75	22.60	23.24	23.72	23.03	23.67	23.52	24.16	24.64
	8H	22.20	22.78	22.71	23.29	23.78	23.20	23.78	23.72	24.29	24.78
	12H	22.28	22.80	22.79	23.29	23.85	23.34	23.86	23.85	24.35	24.91
12H	4H	21.83	22.53	22.32	23.01	23.48	22.49	23.19	22.98	23.67	24.14
	6H	22.13	22.72	22.65	23.23	23.71	23.02	23.60	23.53	24.11	24.60
	8H	22.27	22.78	22.78	23.27	23.84	23.24	23.75	23.75	24.24	24.81