

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: P243433

Luminaire Tested: S123RDRP-H1165D835-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P243433  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-69)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123RDRP-H1165D835-X4F0-XX-UDD-A-W  
Description: DEFINE 3 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: (184) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

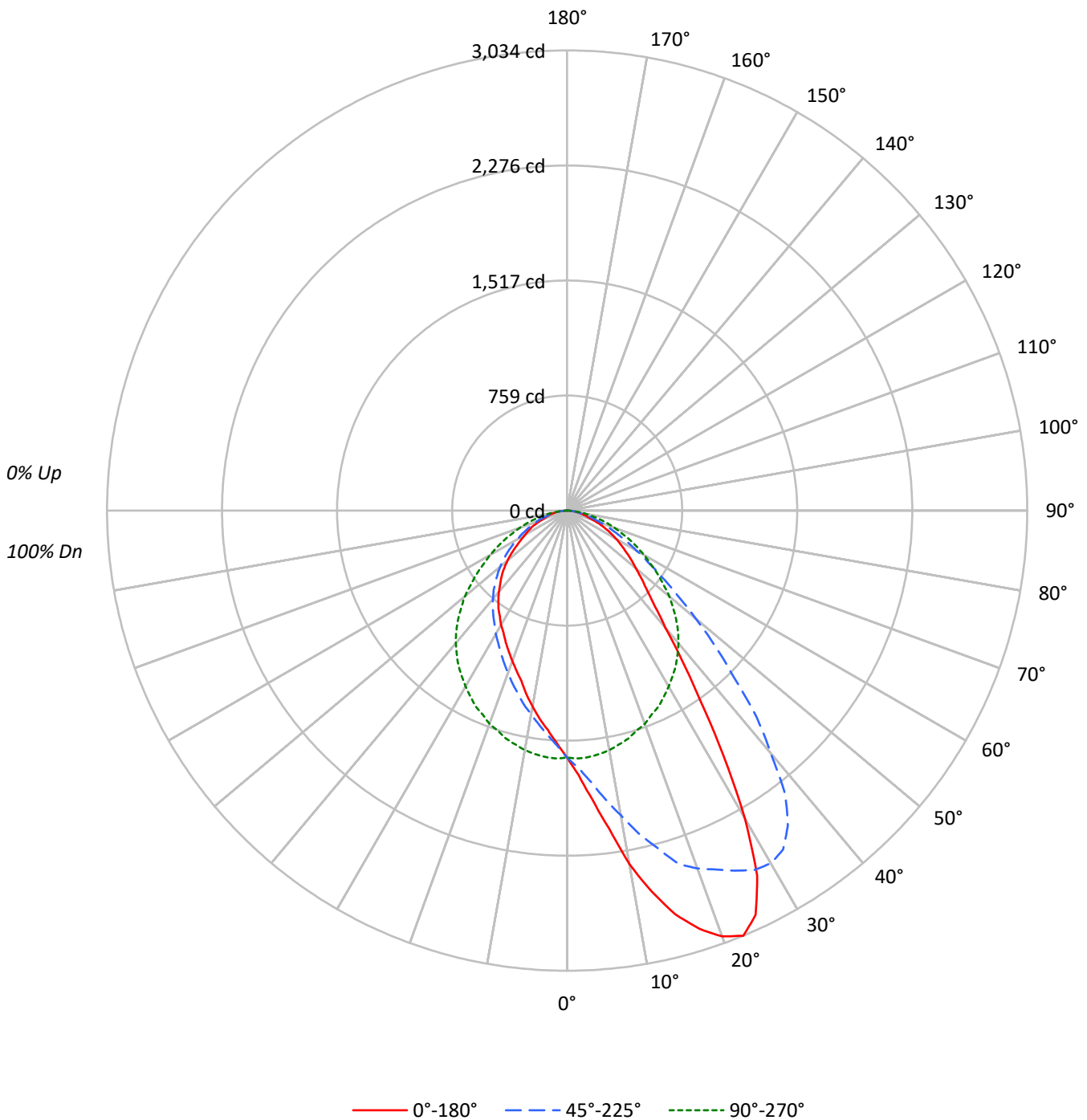
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4244.1 lumens  
Efficiency: N/A  
Efficacy: 112.6 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.22 / 1.4  
Luminous Opening: Rectangular (W 3.88' x L: 0.23' 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

TEST NUMBER: P243433

CATALOG NUMBER: S123RDRP-H1165D835-X4F0-XX-UDD-A-W

### 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	99	107	104	100	97	99	97	94	96	93	91	92	90	89	87					87			
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56					56			
5	79	68	59	53	77	66	59	53	64	57	52	62	56	52	61	55	51	49					49			
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44					44			
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39					39			
8	64	51	43	38	62	51	43	37	49	42	37	48	42	37	47	41	37	35					35			
9	60	47	39	34	59	47	39	34	45	39	34	44	38	34	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29					29			

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

	0°	45°	90°	135°	180°
0°	19743	19743	19743	19743	19743
5°	23275	21847	19853	18047	17679
10°	29136	25120	19736	16776	16135
15°	34578	28904	19540	15691	14614
20°	38536	32395	19305	14723	13607
25°	39335	35037	19066	13845	12811
30°	32778	37591	18743	13161	12187
35°	22644	37536	18482	12551	11677
40°	15913	33050	18061	12041	11062
45°	12779	26618	17420	11501	10463
50°	11141	20835	16591	10862	9681
55°	9987	16082	15353	10150	8620
60°	9035	12805	14184	9207	7808
65°	7907	10509	13070	8332	7302
70°	6379	8548	11763	7652	6181
75°	5536	6721	10242	6454	6060
80°	5103	5501	8739	6185	6087
85°	4506	4701	7037	5577	5285

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 55°  
 Vertical Angle: 45°  
 Luminance: 33358 cd/sqm



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CATALOG NUMBER: S123RDRP-H1165D835-X4F0-XX-UDD-A-W

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.7	3.8
10°-20°	503.0	11.9
20°-30°	806.0	19.0
30°-40°	875.0	20.6
40°-50°	749.7	17.7
50°-60°	568.3	13.4
60°-70°	363.1	8.6
70°-80°	173.6	4.1
80°-90°	45.6	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°	1468.8	34.6
0°-40°	2343.8	55.2
0°-60°	3661.7	86.3
0°-90°	4244.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4244.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1629	1629	1629	1629	1629	
5°	1913	1796	1632	1483	1453	196
15°	2756	2303	1557	1250	1165	781
25°	2941	2620	1426	1035	958	1305
35°	1530	2537	1249	848	789	983
45°	746	1553	1016	671	610	589
55°	473	761	726	480	408	426
65°	276	366	456	290	255	274
75°	118	144	219	138	129	128
85°	32	34	51	40	38	37
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°	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8
2.5°	1745.5	1747.7	1744.1	1743.4	1742.7	1731.5	1728.0	1722.3	1702.6	1697.7	1694.2
5°	1912.9	1907.3	1913.6	1901.7	1888.3	1880.6	1867.9	1839.8	1815.2	1795.5	1782.8
7.5°	2111.3	2113.4	2107.0	2095.8	2069.1	2057.8	2023.3	1989.6	1957.2	1916.4	1886.2
10°	2367.2	2350.4	2353.9	2318.7	2290.6	2256.8	2209.7	2155.6	2098.6	2040.9	1998.0
12.5°	2571.2	2583.2	2574.7	2557.8	2503.7	2470.6	2427.7	2349.0	2258.9	2181.6	2116.2
15°	2755.5	2739.3	2741.4	2700.6	2680.9	2650.7	2579.6	2501.6	2443.2	2303.3	2225.9
17.5°	2890.5	2889.1	2887.0	2852.5	2828.6	2765.3	2692.9	2612.7	2539.6	2442.5	2345.4
20°	2987.5	2998.1	2995.3	2967.1	2925.0	2863.8	2820.2	2720.3	2600.0	2511.4	2392.6
22.5°	3034.0	3034.7	3036.1	3022.7	2994.6	2955.2	2893.3	2813.1	2706.2	2561.4	2429.1
25°	2941.1	2944.6	2962.9	2974.2	2981.9	2964.3	2932.0	2859.5	2767.4	2619.7	2482.6
27.5°	2713.3	2724.5	2744.9	2812.4	2839.9	2877.8	2891.2	2862.4	2794.1	2671.1	2514.9
30°	2341.9	2373.6	2393.3	2469.9	2577.5	2678.8	2726.6	2773.7	2767.4	2685.8	2527.6
32.5°	1917.1	1937.5	1994.5	2076.8	2161.9	2310.3	2476.3	2590.2	2654.2	2650.0	2538.1
35°	1530.3	1559.9	1608.4	1671.0	1788.4	1942.5	2130.2	2309.6	2469.9	2536.7	2496.7
37.5°	1242.0	1244.8	1290.5	1379.1	1452.3	1588.0	1757.5	1979.0	2189.3	2363.7	2402.4
40°	1005.7	1025.4	1049.3	1104.9	1191.4	1321.5	1434.0	1652.0	1870.0	2088.7	2244.9
42.5°	856.6	856.6	883.3	918.5	976.2	1054.2	1188.5	1386.2	1582.4	1851.0	2026.9
45°	745.5	752.5	764.5	787.0	827.8	888.2	992.3	1126.7	1327.1	1552.8	1817.3
47.5°	665.3	664.6	675.2	688.5	720.2	765.9	827.1	936.1	1084.5	1327.8	1561.3
50°	590.8	593.6	601.3	612.6	633.7	666.0	704.7	787.0	912.2	1104.9	1349.6
52.5°	533.1	532.4	538.7	545.7	561.9	580.2	614.7	675.9	762.4	915.7	1118.9
55°	472.6	475.4	483.2	487.4	500.7	512.7	541.5	576.0	645.6	761.0	945.9
57.5°	420.6	424.1	428.3	432.5	441.7	453.6	477.5	498.6	549.3	632.3	779.9
60°	372.7	371.3	376.3	383.3	388.2	398.8	412.1	433.9	469.1	528.2	636.5
62.5°	324.9	325.6	326.3	330.5	339.7	348.8	360.8	377.0	398.1	441.7	518.3
65°	275.7	276.4	277.8	282.0	291.2	296.8	309.4	323.5	340.4	366.4	419.9
67.5°	232.1	234.9	234.9	238.4	241.9	247.6	256.7	267.2	281.3	300.3	334.8
70°	180.0	179.3	182.9	189.9	193.4	203.2	209.6	216.6	229.3	241.2	270.8
72.5°	144.9	144.9	144.9	147.7	148.4	150.5	154.7	169.5	179.3	191.3	207.5
75°	118.2	118.9	118.9	119.6	120.3	122.4	123.8	128.0	130.8	143.5	153.3
77.5°	94.2	94.9	94.9	95.6	96.3	97.1	99.9	99.9	102.0	104.8	109.0
80°	73.1	72.4	72.4	73.1	73.1	75.3	75.3	76.7	77.4	78.8	80.9
82.5°	52.0	51.3	52.0	51.3	52.0	52.7	54.2	53.4	54.9	56.3	57.0
85°	32.4	33.1	33.1	34.5	33.8	33.1	33.8	33.8	33.8	33.8	35.2
87.5°	14.1	15.5	15.5	14.8	15.5	15.5	14.1	15.5	15.5	15.5	16.2
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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CATALOG NUMBER: S123RDRP-H1165D835-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8
2.5°	1692.1	1689.3	1678.7	1668.9	1654.1	1647.8	1639.4	1635.8	1624.6	1609.1	1602.1
5°	1770.9	1749.8	1729.4	1704.8	1684.4	1660.5	1647.1	1631.6	1607.7	1585.9	1570.4
7.5°	1854.6	1823.6	1785.6	1744.8	1708.3	1673.8	1644.3	1619.7	1588.7	1558.5	1534.6
10°	1946.7	1893.9	1832.8	1780.7	1728.0	1678.0	1640.8	1603.5	1563.4	1525.4	1496.6
12.5°	2045.8	1971.3	1897.5	1819.4	1740.6	1683.0	1627.4	1579.6	1534.6	1494.5	1460.0
15°	2148.5	2046.6	1952.3	1864.4	1754.7	1677.3	1616.1	1557.1	1500.8	1451.6	1417.8
17.5°	2221.7	2104.9	1986.1	1861.6	1767.3	1671.7	1595.7	1521.2	1469.2	1418.5	1372.8
20°	2289.2	2157.0	2015.6	1899.6	1768.1	1651.3	1568.3	1496.6	1424.1	1370.0	1331.3
22.5°	2318.0	2198.5	2055.7	1894.6	1763.1	1643.6	1536.7	1455.8	1391.1	1332.0	1281.4
25°	2323.6	2190.0	2043.7	1888.3	1744.1	1614.7	1506.4	1425.6	1341.2	1280.0	1240.6
27.5°	2348.3	2165.4	2021.9	1867.2	1720.9	1585.9	1472.0	1382.0	1303.2	1237.8	1187.1
30°	2354.6	2154.9	1975.5	1827.8	1677.3	1545.1	1429.8	1339.1	1253.2	1186.4	1140.7
32.5°	2357.4	2140.8	1927.0	1765.2	1621.8	1497.3	1391.8	1293.3	1211.8	1141.4	1094.3
35°	2347.6	2121.1	1868.6	1694.2	1556.4	1434.0	1336.2	1249.0	1158.3	1092.2	1042.3
37.5°	2308.9	2090.2	1835.6	1611.2	1479.7	1364.4	1281.4	1195.6	1111.9	1040.2	988.8
40°	2235.7	2045.1	1773.7	1541.6	1392.5	1289.1	1211.8	1141.4	1057.0	988.1	937.5
42.5°	2119.0	1984.0	1716.7	1462.8	1306.0	1208.2	1143.5	1083.1	1007.1	941.7	886.1
45°	1946.0	1898.2	1640.8	1382.7	1211.8	1119.6	1063.4	1016.2	947.3	887.5	836.2
47.5°	1758.9	1769.5	1564.1	1301.1	1126.0	1038.0	988.8	947.3	895.3	831.3	784.2
50°	1543.0	1600.7	1456.5	1218.8	1040.2	953.7	905.1	879.8	831.3	777.8	733.5
52.5°	1345.4	1436.8	1347.5	1128.8	955.8	870.7	825.7	800.3	768.0	723.7	678.7
55°	1140.7	1256.8	1192.1	1031.7	870.0	784.2	746.2	726.5	699.8	665.3	624.5
57.5°	971.2	1095.0	1054.2	929.7	786.3	708.9	675.2	652.6	636.5	604.8	571.8
60°	805.3	919.9	903.7	812.3	703.3	629.4	603.4	585.1	571.8	548.6	516.2
62.5°	649.8	761.0	770.8	699.1	622.4	555.6	531.7	519.0	508.5	490.2	460.7
65°	515.5	613.3	633.7	578.8	537.3	486.7	463.5	455.7	448.0	426.9	404.4
67.5°	403.7	480.3	507.1	476.1	446.6	417.0	398.8	388.2	382.6	369.9	354.5
70°	308.7	374.8	397.4	384.0	364.3	353.0	339.0	331.9	326.3	310.1	301.7
72.5°	231.4	276.4	304.5	300.3	296.1	288.3	279.9	277.8	269.4	258.8	251.1
75°	169.5	195.5	220.8	230.0	228.6	231.4	222.2	218.7	213.8	206.1	199.7
77.5°	121.7	137.1	154.7	166.0	171.6	172.3	172.3	170.2	166.7	161.1	156.1
80°	84.4	87.9	104.1	114.6	120.3	124.5	124.5	125.2	121.7	119.6	116.0
82.5°	58.4	60.5	64.0	72.4	79.5	84.4	85.1	84.4	83.0	82.3	77.4
85°	36.6	35.9	35.9	38.0	43.6	48.5	49.2	50.6	49.9	49.2	44.3
87.5°	15.5	15.5	16.2	15.5	17.6	18.3	19.7	23.2	22.5	19.0	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



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8
2.5°	1597.9	1588.7	1580.3	1571.1	1559.9	1549.3	1547.9	1546.5	1550.0	1543.0	1540.2
5°	1558.5	1540.9	1527.5	1510.7	1498.7	1483.2	1474.8	1472.7	1472.0	1467.8	1462.1
7.5°	1515.6	1496.6	1477.6	1458.6	1438.9	1422.7	1413.6	1408.7	1404.5	1397.4	1391.8
10°	1475.5	1451.6	1431.2	1405.2	1384.1	1363.0	1354.5	1347.5	1343.3	1333.4	1325.7
12.5°	1430.5	1400.2	1377.7	1349.6	1330.6	1312.3	1299.0	1285.6	1275.8	1261.0	1254.7
15°	1391.1	1359.4	1321.5	1304.6	1277.9	1250.4	1235.7	1235.7	1215.3	1203.3	1195.6
17.5°	1338.3	1310.9	1284.2	1249.7	1211.8	1195.6	1178.7	1163.9	1149.9	1146.4	1132.3
20°	1291.9	1259.6	1232.2	1194.9	1160.4	1141.4	1121.7	1105.6	1095.0	1085.2	1077.4
22.5°	1246.2	1213.9	1171.7	1135.1	1111.9	1086.6	1065.5	1051.4	1042.3	1027.5	1020.5
25°	1198.4	1159.7	1121.7	1085.9	1057.0	1035.2	1013.4	1005.7	989.5	981.8	971.9
27.5°	1150.6	1104.2	1068.3	1037.3	1005.0	983.9	969.1	955.1	941.0	936.8	931.1
30°	1097.1	1054.2	1019.8	989.5	958.6	940.3	922.7	910.0	898.1	888.9	882.6
32.5°	1043.7	1007.8	974.7	939.6	911.5	891.8	877.0	865.7	860.1	844.6	839.0
35°	994.4	957.9	922.7	889.7	867.1	848.2	834.8	824.2	812.3	802.4	796.8
37.5°	943.8	910.8	874.9	846.8	821.4	806.0	791.2	777.1	768.0	762.4	755.3
40°	894.6	859.4	832.0	801.0	778.5	761.0	745.5	734.9	723.7	718.8	709.6
42.5°	848.2	814.4	782.8	754.6	734.2	717.3	702.6	690.6	681.5	672.3	667.4
45°	794.7	765.2	736.3	708.2	689.2	670.9	654.8	644.2	631.5	623.8	621.0
47.5°	749.7	718.8	687.8	661.8	642.1	622.4	609.0	596.4	585.8	578.1	573.9
50°	696.2	667.4	642.1	616.1	597.1	576.0	559.8	547.9	535.9	530.3	523.2
52.5°	650.5	622.4	591.5	568.3	546.5	528.2	513.4	503.6	493.0	484.6	479.6
55°	593.6	566.1	541.5	516.9	495.1	480.3	468.4	451.5	442.4	433.9	420.6
57.5°	543.6	517.6	491.6	467.7	447.3	429.7	414.9	403.7	391.7	385.4	376.3
60°	490.9	463.5	439.6	421.3	398.8	379.8	369.9	356.6	346.7	336.9	334.1
62.5°	438.8	413.5	389.6	370.6	350.2	335.5	322.8	316.5	306.6	298.9	296.1
65°	384.7	363.6	341.1	320.0	307.3	290.5	283.4	272.9	267.2	263.7	263.0
67.5°	331.2	312.3	291.9	275.7	263.7	252.5	244.0	239.8	234.2	230.0	226.5
70°	282.7	264.4	246.9	233.5	224.3	215.9	210.3	202.5	196.9	191.3	183.6
72.5°	234.9	220.1	205.4	194.8	185.7	180.7	173.0	161.1	155.4	154.0	153.3
75°	190.6	174.4	163.9	158.2	149.8	137.8	132.9	131.5	130.8	129.4	129.4
77.5°	147.0	137.1	130.1	118.2	113.9	113.2	109.7	109.0	107.6	108.3	108.3
80°	106.9	101.3	92.8	89.3	87.9	88.6	87.2	87.9	86.5	87.2	85.8
82.5°	71.0	66.1	67.5	65.4	65.4	66.8	66.1	64.0	64.0	63.3	63.3
85°	42.2	41.5	42.9	42.9	42.2	40.1	41.5	40.8	38.7	39.4	39.4
87.5°	18.3	18.3	18.3	17.6	18.3	17.6	17.6	17.6	15.5	15.5	15.5
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: P243433

CATALOG NUMBER: S123RDRP-H1165D835-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1628.8	1628.8	1628.8	1628.8
2.5°	1541.6	1540.2	1538.1	1536.0
5°	1462.1	1455.8	1455.1	1453.0
7.5°	1387.6	1384.8	1379.8	1385.5
10°	1319.4	1321.5	1316.5	1310.9
12.5°	1248.3	1244.1	1236.4	1240.6
15°	1185.7	1178.7	1174.5	1164.6
17.5°	1120.3	1114.7	1114.7	1108.4
20°	1063.4	1057.7	1059.1	1054.9
22.5°	1015.5	1011.3	1005.0	1005.7
25°	970.5	964.2	957.2	957.9
27.5°	920.6	915.0	913.6	908.6
30°	876.3	871.4	870.7	870.7
32.5°	833.4	831.3	827.8	825.7
35°	796.1	793.3	787.7	789.1
37.5°	749.7	746.9	746.2	745.5
40°	706.1	704.0	698.4	699.1
42.5°	662.5	659.0	655.5	654.1
45°	615.4	614.7	609.0	610.4
47.5°	570.4	569.0	566.1	562.6
50°	520.4	519.7	517.6	513.4
52.5°	471.9	469.8	465.6	461.4
55°	417.0	410.7	411.4	407.9
57.5°	372.0	369.2	363.6	361.5
60°	328.4	325.6	324.9	322.1
62.5°	291.9	289.0	286.9	286.9
65°	258.8	255.3	254.6	254.6
67.5°	222.2	218.7	218.0	216.6
70°	176.5	175.8	174.4	174.4
72.5°	151.9	151.2	151.9	149.1
75°	129.4	128.7	128.7	129.4
77.5°	107.6	107.6	106.9	106.9
80°	85.1	85.8	85.1	87.2
82.5°	64.0	62.6	63.3	61.9
85°	39.4	39.4	38.0	38.0
87.5°	15.5	15.5	15.5	15.5
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243433

CATALOG NUMBER: S123RDRP-H1165D835-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	18.75	20.25	19.12	20.57	20.88	21.45	22.95	21.82	23.27	23.58
	3H	19.94	21.28	20.32	21.61	21.97	22.88	24.22	23.25	24.55	24.91
	4H	20.29	21.55	20.69	21.90	22.28	23.38	24.64	23.78	24.99	25.37
	6H	20.57	21.73	20.98	22.10	22.49	23.72	24.89	24.14	25.26	25.65
	8H	20.66	21.76	21.08	22.15	22.55	23.83	24.93	24.25	25.32	25.72
	12H	20.72	21.78	21.15	22.16	22.59	23.89	24.94	24.32	25.33	25.76
4H	2H	19.70	20.96	20.10	21.31	21.69	21.73	22.99	22.13	23.34	23.72
	3H	20.97	22.01	21.38	22.41	22.82	23.45	24.49	23.86	24.89	25.29
	4H	21.38	22.32	21.81	22.73	23.17	24.06	25.00	24.49	25.42	25.86
	6H	21.72	22.54	22.18	22.98	23.44	24.52	25.33	24.98	25.78	26.24
	8H	21.84	22.60	22.30	23.04	23.51	24.66	25.42	25.12	25.86	26.33
	12H	21.93	22.61	22.41	23.09	23.56	24.75	25.43	25.23	25.91	26.38
8H	4H	21.74	22.50	22.20	22.94	23.41	24.12	24.88	24.59	25.33	25.79
	6H	22.16	22.79	22.66	23.28	23.76	24.65	25.28	25.15	25.77	26.25
	8H	22.32	22.89	22.84	23.40	23.88	24.84	25.40	25.35	25.91	26.40
	12H	22.47	22.97	22.98	23.46	24.02	24.99	25.49	25.50	25.98	26.55
12H	4H	21.77	22.45	22.25	22.93	23.40	24.11	24.79	24.59	25.27	25.74
	6H	22.20	22.77	22.72	23.28	23.77	24.64	25.20	25.15	25.72	26.20
	8H	22.41	22.91	22.92	23.41	23.97	24.87	25.37	25.38	25.86	26.43