

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: P242562

Luminaire Tested: S123RDRP-S1000D927-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P242562  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-30)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123RDRP-S1000D927-X4F0-XX-UDD-A-W  
Description: DEFINE 3 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER  
STANDARD LIGHT ENGINE  
Light Source: (92) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

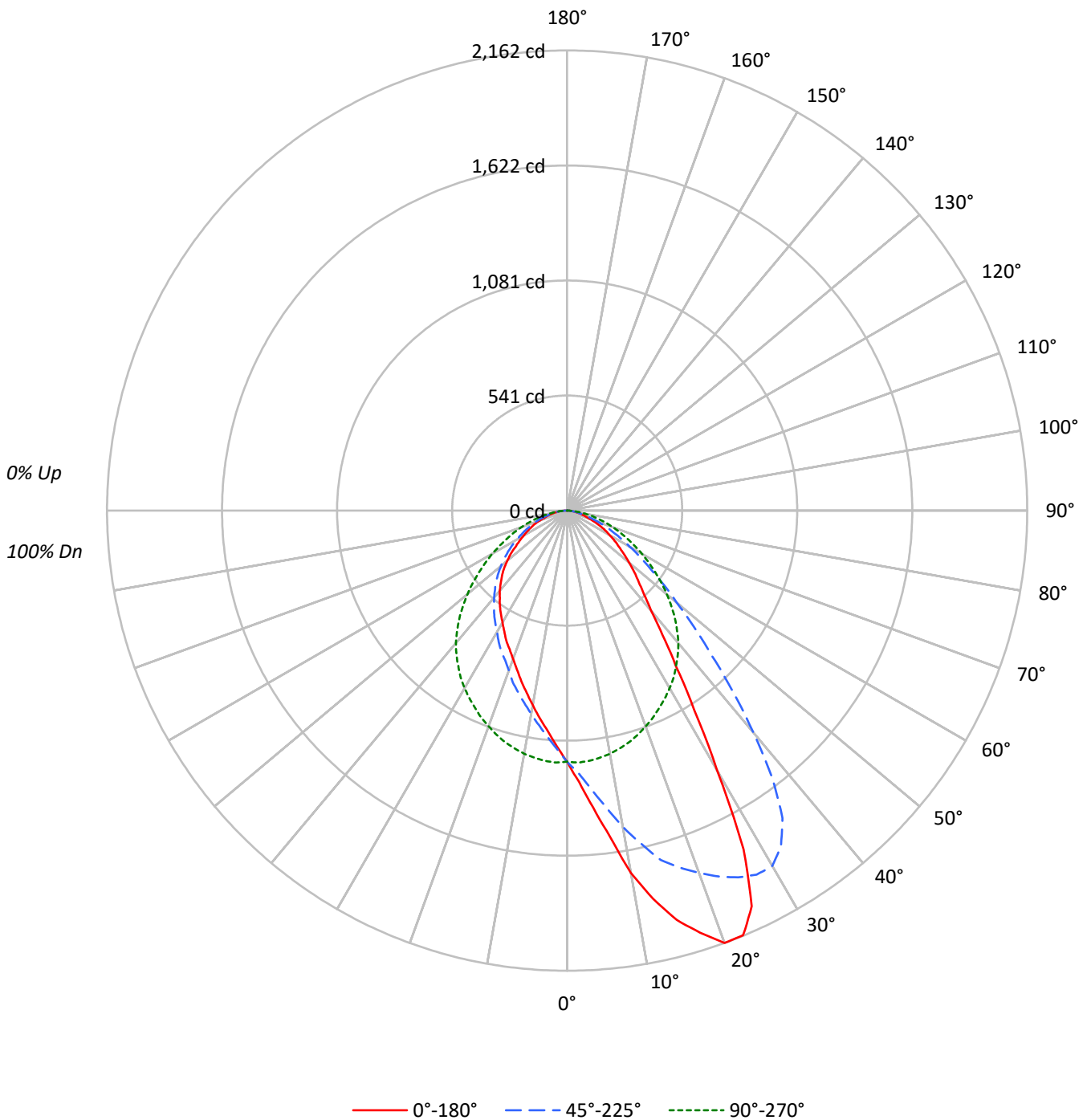
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2938.1 lumens  
Efficiency: N/A  
Efficacy: 84.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.35  
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 34.8  
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	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87					87			
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	74					74			
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64					64			
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56					56			
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52	50					50			
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29					29			

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

	0°	45°	90°	135°	180°
0°	14303	14303	14303	14303	14303
5°	17049	15992	14364	12968	12648
10°	21287	18577	14281	11949	11427
15°	24987	21335	14135	11112	10421
20°	27887	23365	13917	10327	9565
25°	27441	25429	13687	9782	9040
30°	19725	26979	13476	9219	8499
35°	13170	26101	13199	8835	8147
40°	9703	21516	12867	8448	7785
45°	8139	16417	12287	8088	7429
50°	7183	12659	11526	7649	6934
55°	6298	10097	10653	7196	6255
60°	5607	8240	9821	6613	5731
65°	4925	6752	8926	6101	5332
70°	3867	5426	8126	5603	4869
75°	3405	4000	7095	5063	4449
80°	2960	3420	6031	4439	4370
85°	2392	2601	4854	4492	4631

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 60°  
 Vertical Angle: 45°  
 Luminance: 23102 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.9	3.9
10°-20°	362.7	12.3
20°-30°	571.3	19.4
30°-40°	594.1	20.2
40°-50°	508.3	17.3
50°-60°	387.4	13.2
60°-70°	248.2	8.4
70°-80°	118.9	4.0
80°-90°	31.3	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°	1049.9	35.7
0°-40°	1644.1	56.0
0°-60°	2539.7	86.4
0°-90°	2938.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2938.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1180	1180	1180	1180	1180	
5°	1401	1314	1180	1066	1040	144
15°	1991	1700	1126	886	830	565
25°	2052	1901	1023	731	676	892
35°	890	1764	892	597	551	579
45°	475	958	717	472	433	372
55°	298	478	504	340	296	269
65°	172	235	311	213	186	169
75°	73	85	152	108	95	78
85°	17	19	35	32	33	20
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°	1180.0	1180.0	1180.0	1180.0	1180.0	1180.0	1180.0	1180.0	1180.0	1180.0	1180.0
2.5°	1275.9	1278.0	1271.4	1270.4	1262.8	1260.8	1260.8	1250.2	1243.6	1235.0	1230.0
5°	1401.2	1409.3	1405.3	1396.2	1381.0	1377.5	1367.9	1352.7	1335.5	1314.3	1304.2
7.5°	1544.7	1561.3	1558.3	1544.2	1528.0	1517.9	1491.1	1469.4	1436.6	1406.8	1383.5
10°	1729.5	1717.9	1708.8	1695.2	1680.5	1656.8	1628.5	1589.6	1544.7	1509.3	1469.9
12.5°	1867.9	1868.5	1856.3	1842.2	1820.0	1797.7	1761.4	1711.9	1657.8	1602.8	1556.3
15°	1991.2	1994.2	1986.7	1972.0	1942.7	1902.8	1850.3	1830.6	1755.8	1700.2	1644.7
17.5°	2079.1	2079.6	2078.1	2058.4	2026.6	1999.3	1950.3	1904.3	1833.6	1758.3	1684.1
20°	2161.9	2156.9	2157.9	2135.2	2112.9	2080.1	2032.6	1957.4	1901.8	1811.4	1734.1
22.5°	2159.9	2159.9	2164.5	2160.4	2145.8	2122.5	2087.7	2027.1	1952.3	1860.9	1771.5
25°	2051.8	2047.8	2071.5	2078.1	2103.8	2108.4	2097.3	2062.4	1995.2	1901.3	1793.7
27.5°	1794.2	1779.6	1829.1	1878.1	1943.2	1984.6	2027.1	2036.7	2004.8	1928.1	1815.4
30°	1409.3	1456.8	1479.0	1558.8	1647.7	1753.8	1846.7	1935.1	1956.8	1927.6	1839.2
32.5°	1110.3	1150.2	1167.8	1233.5	1314.8	1443.6	1594.7	1729.0	1834.1	1869.5	1825.0
35°	890.0	890.5	933.0	963.3	1040.1	1167.8	1303.2	1470.9	1637.6	1763.9	1777.0
37.5°	734.5	736.5	763.7	794.1	855.7	927.4	1053.2	1194.6	1395.2	1583.6	1681.6
40°	613.2	617.8	637.0	666.8	708.2	759.2	852.1	983.5	1144.1	1359.8	1536.1
42.5°	535.4	543.5	551.1	572.3	594.0	641.0	711.7	805.7	948.1	1149.2	1359.3
45°	474.8	478.9	486.4	497.0	520.3	553.6	604.1	672.3	793.5	957.7	1161.3
47.5°	428.3	425.8	434.4	443.5	459.2	483.4	518.8	577.9	668.8	806.2	982.5
50°	380.9	380.4	385.9	392.5	407.1	423.8	451.6	493.5	562.2	671.3	829.4
52.5°	336.4	338.9	342.5	351.1	360.7	373.3	397.5	424.8	481.4	571.8	697.1
55°	298.0	299.5	305.1	309.6	317.2	330.9	346.5	371.8	412.2	477.8	586.4
57.5°	264.7	264.2	269.7	270.2	279.8	291.5	304.1	323.8	354.6	406.6	482.4
60°	231.3	229.8	234.4	237.9	242.5	251.6	261.7	280.8	304.1	339.9	402.6
62.5°	201.0	200.5	203.6	207.1	210.6	218.7	226.8	240.4	257.6	286.4	332.9
65°	171.7	173.3	174.8	176.3	178.3	183.4	191.4	201.5	214.2	235.4	271.3
67.5°	141.4	143.5	144.0	147.5	151.5	154.1	158.6	168.2	177.8	197.0	218.2
70°	109.1	108.6	109.1	110.6	116.2	121.7	128.3	134.9	140.4	153.1	170.2
72.5°	89.9	88.9	90.4	90.4	92.4	92.9	96.5	102.5	110.1	117.7	128.8
75°	72.7	72.7	72.7	72.7	74.8	75.8	77.3	78.8	81.3	85.4	94.5
77.5°	56.6	56.6	57.6	58.1	58.6	59.1	60.1	61.6	62.6	64.7	69.2
80°	42.4	42.9	42.4	42.9	42.9	43.9	44.5	46.0	46.5	49.0	50.5
82.5°	29.3	28.8	29.3	29.8	29.8	30.8	30.8	31.8	31.8	32.8	34.3
85°	17.2	16.2	17.2	16.7	17.7	16.7	17.2	18.2	18.2	18.7	20.7
87.5°	5.1	6.1	5.1	5.6	5.6	6.1	6.1	6.1	7.1	6.6	7.1
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°	1180.0	1180.0	1180.0	1180.0	1180.0	1180.0	1180.0	1180.0	1180.0	1180.0	1180.0
2.5°	1228.0	1226.4	1219.4	1211.3	1200.7	1193.6	1188.1	1185.0	1175.9	1164.8	1157.2
5°	1293.6	1278.5	1262.3	1242.6	1224.4	1205.7	1194.1	1180.5	1163.8	1145.1	1132.0
7.5°	1358.8	1332.5	1303.7	1273.9	1243.6	1216.8	1192.1	1171.9	1146.6	1120.9	1103.2
10°	1436.1	1392.6	1347.7	1301.7	1259.8	1220.4	1190.1	1160.3	1128.4	1097.6	1074.4
12.5°	1506.3	1445.7	1392.1	1333.0	1276.4	1227.5	1180.5	1144.1	1104.2	1070.9	1043.6
15°	1563.4	1504.8	1442.1	1356.3	1285.0	1225.4	1172.4	1126.4	1080.0	1039.5	1013.8
17.5°	1623.0	1534.1	1451.7	1385.0	1292.1	1219.9	1157.7	1104.2	1053.7	1012.3	979.9
20°	1657.3	1571.9	1480.5	1389.1	1298.2	1214.8	1139.6	1078.9	1025.9	977.4	948.1
22.5°	1678.0	1578.5	1481.0	1381.0	1283.0	1195.6	1121.4	1053.2	994.6	949.1	911.2
25°	1693.2	1578.0	1471.9	1374.9	1276.4	1182.5	1094.1	1023.4	961.3	912.3	873.9
27.5°	1705.3	1571.9	1450.2	1344.6	1245.1	1149.7	1069.9	994.1	932.0	880.9	839.0
30°	1708.3	1564.4	1424.4	1307.8	1206.2	1120.4	1034.5	962.8	896.1	841.0	802.6
32.5°	1712.4	1545.7	1389.6	1263.8	1159.3	1074.4	998.6	930.9	862.2	808.2	768.8
35°	1698.2	1541.1	1354.2	1211.8	1107.7	1025.4	955.2	892.0	824.9	772.3	732.4
37.5°	1655.3	1516.4	1318.9	1153.7	1046.1	970.3	911.7	854.2	792.0	734.5	697.6
40°	1583.1	1476.0	1276.4	1101.7	988.0	909.7	858.2	813.2	753.6	700.6	660.2
42.5°	1475.5	1420.9	1236.0	1047.1	922.4	847.6	806.2	764.8	714.2	660.2	622.8
45°	1339.1	1347.7	1177.9	988.5	862.8	787.0	746.1	716.8	670.3	625.8	587.0
47.5°	1173.4	1245.1	1115.8	926.9	798.1	726.9	691.0	664.2	631.9	585.9	550.1
50°	1011.8	1126.4	1038.0	864.8	738.0	667.3	631.9	611.2	583.9	549.6	515.7
52.5°	862.8	988.0	944.1	795.6	672.8	609.7	575.3	559.2	539.0	507.1	477.3
55°	727.9	852.6	840.5	725.9	607.7	549.6	523.3	504.1	489.5	465.2	441.0
57.5°	610.7	731.4	733.9	648.6	551.1	492.0	469.3	454.1	444.0	424.8	401.1
60°	501.1	609.7	630.9	570.3	489.5	439.0	416.7	405.1	397.5	382.9	365.7
62.5°	410.2	498.6	523.3	483.9	430.4	383.9	367.7	356.6	352.1	339.9	325.3
65°	327.8	404.6	427.8	403.6	372.8	334.9	320.8	311.2	306.6	299.5	288.4
67.5°	258.6	318.2	343.5	323.3	311.7	284.9	275.3	269.7	265.7	260.6	251.0
70°	198.0	239.4	265.7	261.1	252.1	239.4	232.9	229.3	225.3	221.2	213.2
72.5°	149.5	174.8	199.0	203.1	196.0	196.0	190.4	189.4	187.4	182.3	178.8
75°	105.6	125.3	142.4	149.0	152.0	154.6	152.0	151.5	151.0	147.0	144.5
77.5°	73.2	85.9	97.5	109.1	113.1	116.7	117.2	119.2	117.7	115.2	114.2
80°	53.0	55.6	63.1	72.7	80.3	83.3	85.4	86.4	85.9	85.4	83.3
82.5°	34.9	36.9	39.4	45.5	51.5	57.1	58.1	57.6	59.1	59.6	58.1
85°	20.7	21.2	22.2	23.2	26.8	32.3	33.8	34.9	35.9	35.9	32.8
87.5°	8.1	7.6	8.6	8.6	10.1	10.6	13.6	16.2	16.7	14.6	14.6
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°	1180.0	1180.0	1180.0	1180.0	1180.0	1180.0	1180.0	1180.0	1180.0	1180.0	1180.0
2.5°	1154.7	1148.1	1143.6	1133.5	1126.9	1119.9	1112.8	1117.3	1116.8	1116.3	1116.3
5°	1120.9	1109.3	1098.6	1085.0	1076.4	1065.8	1057.7	1056.7	1058.7	1051.7	1047.6
7.5°	1089.0	1073.9	1058.7	1044.6	1028.9	1016.8	1009.2	1006.2	1000.7	996.1	992.1
10°	1055.2	1036.5	1021.9	1003.2	986.0	970.8	961.3	954.7	951.1	947.6	941.0
12.5°	1020.4	1002.2	982.5	960.7	944.6	926.4	919.8	912.3	904.7	900.6	891.0
15°	986.5	962.8	943.1	920.8	902.7	885.5	875.4	860.7	858.7	853.7	844.6
17.5°	953.7	927.4	898.6	883.5	865.3	847.1	830.9	826.4	811.2	806.2	797.6
20°	913.3	889.5	868.8	847.1	817.3	800.6	788.5	781.9	770.3	763.2	758.2
22.5°	878.4	854.2	829.4	803.1	779.9	760.7	752.6	741.5	736.5	725.9	720.3
25°	845.6	819.3	790.5	763.2	745.6	731.4	717.3	708.2	699.1	694.5	684.4
27.5°	805.7	779.4	751.6	730.4	710.2	696.1	682.4	674.8	663.2	655.7	650.1
30°	773.8	741.5	718.3	699.6	671.8	658.7	649.1	639.0	630.9	622.8	617.3
32.5°	737.0	708.2	686.5	662.2	642.5	627.9	614.7	606.1	599.6	592.0	586.4
35°	698.1	673.3	650.6	627.4	611.7	597.1	582.4	574.8	568.3	561.2	556.1
37.5°	662.7	639.5	618.3	596.0	576.9	564.2	552.1	547.0	538.0	532.9	527.9
40°	630.4	607.7	584.4	563.2	543.0	533.9	523.3	514.7	506.6	503.1	497.5
42.5°	595.0	572.3	553.6	530.4	514.7	501.6	492.0	482.4	476.8	471.3	468.8
45°	560.2	540.0	520.8	498.1	482.4	471.8	460.7	452.1	446.5	443.0	437.4
47.5°	526.8	506.1	486.9	466.7	451.6	439.5	427.8	422.3	414.7	410.7	406.6
50°	490.0	471.8	451.1	432.9	417.7	405.6	396.5	388.9	382.4	376.8	374.3
52.5°	456.1	436.4	419.3	402.6	386.4	372.3	364.2	356.1	351.6	345.0	342.0
55°	418.2	399.6	384.4	367.7	352.1	340.5	330.4	323.3	318.2	311.2	307.1
57.5°	383.4	367.2	348.5	333.9	317.2	308.1	299.5	289.4	283.4	277.8	273.8
60°	348.0	328.8	313.2	299.5	285.4	272.8	265.2	257.6	251.0	245.5	242.0
62.5°	311.2	295.0	280.3	265.2	252.6	242.0	232.9	226.8	221.2	218.2	214.7
65°	273.3	260.1	245.0	232.9	220.7	212.7	205.6	200.0	196.0	193.5	190.4
67.5°	238.4	225.8	212.2	199.5	191.4	184.9	179.8	174.8	172.8	169.7	167.7
70°	204.6	191.4	179.8	170.7	162.6	158.1	155.1	151.5	149.5	145.5	143.5
72.5°	167.7	159.1	151.5	144.5	138.4	134.4	130.3	125.8	122.2	117.7	115.7
75°	137.9	129.3	122.7	117.7	113.7	108.1	102.5	98.0	96.5	95.0	94.5
77.5°	107.6	102.0	97.0	92.9	87.4	82.3	80.8	79.8	79.3	78.3	78.3
80°	80.3	75.3	71.7	66.7	63.6	63.6	63.6	62.6	63.1	63.1	63.1
82.5°	54.6	50.0	48.5	47.5	47.5	48.0	48.0	48.5	48.0	49.0	48.5
85°	30.8	31.3	32.3	31.8	32.3	32.3	33.3	32.8	33.3	32.3	33.3
87.5°	14.1	15.7	16.2	16.7	17.2	16.7	17.2	17.2	17.7	17.7	17.7
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: P242562

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1180.0	1180.0	1180.0	1180.0
2.5°	1110.3	1109.8	1110.3	1108.2
5°	1046.1	1045.6	1044.1	1039.5
7.5°	988.0	987.0	983.0	984.0
10°	937.5	938.0	932.0	928.4
12.5°	888.5	885.5	880.9	876.9
15°	846.6	841.5	829.4	830.4
17.5°	794.6	790.5	790.0	782.9
20°	750.1	747.6	748.6	741.5
22.5°	715.3	712.7	707.2	706.2
25°	681.4	677.4	673.3	675.9
27.5°	647.1	644.0	639.5	639.5
30°	614.7	611.7	609.7	607.2
32.5°	581.9	581.9	577.9	577.9
35°	554.1	551.1	550.1	550.6
37.5°	527.3	523.3	521.3	519.3
40°	498.1	494.0	493.0	492.0
42.5°	465.2	464.2	463.7	461.7
45°	435.9	435.4	432.4	433.4
47.5°	404.6	402.1	400.6	402.1
50°	372.3	371.3	366.7	367.7
52.5°	339.9	335.4	334.4	333.4
55°	303.6	299.0	297.0	296.0
57.5°	267.7	266.2	264.2	265.7
60°	236.9	236.9	236.9	236.4
62.5°	213.2	211.6	211.1	212.2
65°	188.9	188.4	186.4	185.9
67.5°	166.7	164.7	164.7	163.7
70°	140.9	139.9	136.9	137.4
72.5°	113.1	112.1	112.1	111.1
75°	94.0	93.4	92.9	95.0
77.5°	78.3	78.3	78.8	77.8
80°	63.1	63.1	62.6	62.6
82.5°	47.5	48.0	48.5	47.5
85°	33.3	32.8	33.8	33.3
87.5°	18.7	17.7	17.7	18.2
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242562  
 CATALOG NUMBER: S123RDRP-S1000D927-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	16.88	18.37	17.25	18.69	19.00	20.28	21.77	20.64	22.08	22.40
	3H	17.97	19.31	18.35	19.64	20.00	21.69	23.02	22.07	23.35	23.71
	4H	18.31	19.56	18.71	19.91	20.29	22.19	23.44	22.59	23.79	24.17
	6H	18.56	19.71	18.97	20.08	20.47	22.54	23.69	22.95	24.06	24.45
	8H	18.63	19.73	19.05	20.12	20.52	22.64	23.74	23.07	24.13	24.53
	12H	18.66	19.71	19.09	20.10	20.53	22.70	23.75	23.13	24.14	24.57
4H	2H	17.86	19.11	18.26	19.46	19.84	20.52	21.77	20.92	22.12	22.50
	3H	19.03	20.07	19.44	20.47	20.87	22.21	23.25	22.62	23.65	24.05
	4H	19.42	20.35	19.85	20.77	21.21	22.82	23.76	23.26	24.17	24.61
	6H	19.73	20.54	20.19	20.98	21.44	23.29	24.10	23.75	24.54	25.00
	8H	19.82	20.57	20.28	21.02	21.49	23.43	24.19	23.90	24.63	25.10
	12H	19.88	20.55	20.36	21.03	21.50	23.53	24.21	24.01	24.69	25.16
8H	4H	19.78	20.54	20.25	20.98	21.45	22.88	23.63	23.34	24.08	24.54
	6H	20.16	20.78	20.66	21.27	21.75	23.41	24.03	23.91	24.53	25.00
	8H	20.29	20.85	20.80	21.36	21.85	23.60	24.16	24.12	24.67	25.16
	12H	20.39	20.88	20.90	21.38	21.94	23.76	24.26	24.27	24.75	25.31
12H	4H	19.81	20.49	20.30	20.97	21.44	22.86	23.54	23.34	24.02	24.49
	6H	20.20	20.76	20.72	21.27	21.76	23.40	23.96	23.91	24.47	24.96
	8H	20.38	20.87	20.89	21.36	21.93	23.63	24.12	24.14	24.62	25.18