

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: P243432

Luminaire Tested: S123RDRP-H1000D835-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P243432  
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-H1000D835-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: -

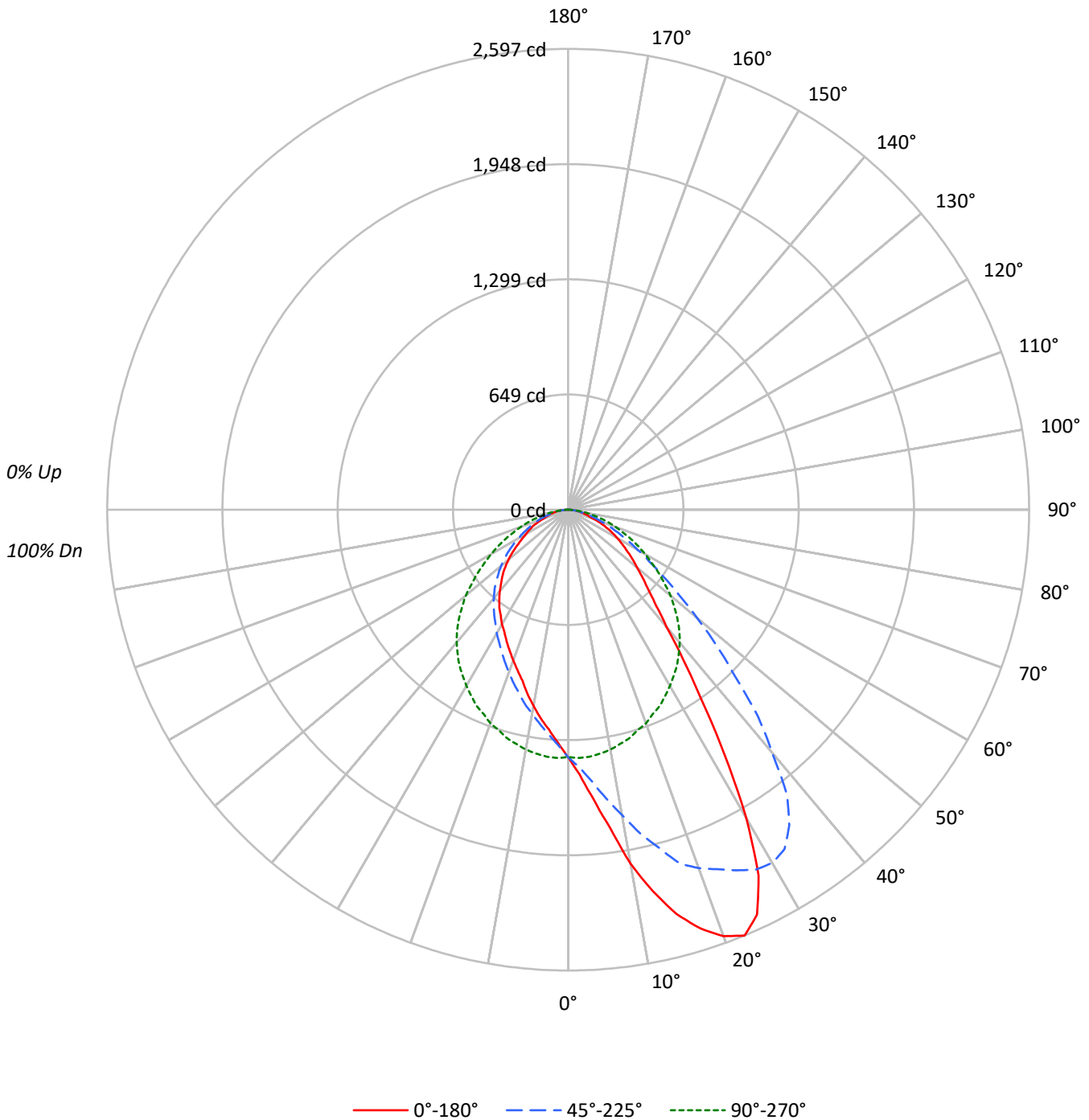
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3633.0 lumens  
Efficiency: N/A  
Efficacy: 115.3 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): 31.5  
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	107	104	100	97	99	97	94	96	93	91	92	90	89					87				
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76					74				
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66					64				
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58					56				
5	79	68	59	53	77	66	59	53	64	57	52	62	56	52	61	55	51					49				
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46					44				
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41					39				
8	64	51	43	38	62	51	43	37	49	42	37	48	42	37	47	41	37					35				
9	60	47	39	34	59	47	39	34	45	39	34	44	38	34	43	38	33					32				
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31					29				

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

	0°	45°	90°	135°	180°
0°	16901	16901	16901	16901	16901
5°	19924	18701	16994	15449	15134
10°	24941	21504	16894	14360	13812
15°	29599	24741	16726	13432	12511
20°	32988	27731	16525	12604	11648
25°	33672	29993	16321	11852	10967
30°	28060	32179	16044	11266	10432
35°	19384	32132	15821	10743	9996
40°	13622	28292	15461	10307	9469
45°	10938	22787	14912	9845	8958
50°	9536	17835	14201	9299	8288
55°	8550	13766	13142	8690	7380
60°	7736	10960	12143	7881	6684
65°	6769	8997	11189	7130	6250
70°	5461	7318	10072	6549	5291
75°	4735	5751	8767	5526	5189
80°	4370	4705	7483	5298	5214
85°	3852	4019	6022	4770	4520

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 55°  
 Vertical Angle: 45°  
 Luminance: 28555 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.7	3.8
10°-20°	430.6	11.9
20°-30°	690.0	19.0
30°-40°	749.0	20.6
40°-50°	641.7	17.7
50°-60°	486.4	13.4
60°-70°	310.8	8.6
70°-80°	148.6	4.1
80°-90°	39.0	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°	1257.3	34.6
0°-40°	2006.3	55.2
0°-60°	3134.5	86.3
0°-90°	3633.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3633.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1394	1394	1394	1394	1394	
5°	1638	1537	1397	1270	1244	168
15°	2359	1972	1333	1070	997	669
25°	2518	2243	1220	886	820	1117
35°	1310	2172	1069	726	676	841
45°	638	1329	870	574	523	504
55°	405	651	622	411	349	365
65°	236	314	390	249	218	235
75°	101	123	187	118	111	109
85°	28	29	43	34	32	31
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°	1394.3	1394.3	1394.3	1394.3	1394.3	1394.3	1394.3	1394.3	1394.3	1394.3	1394.3
2.5°	1494.2	1496.0	1493.0	1492.4	1491.8	1482.2	1479.2	1474.4	1457.5	1453.3	1450.3
5°	1637.5	1632.7	1638.1	1627.9	1616.4	1609.8	1599.0	1574.9	1553.8	1537.0	1526.1
7.5°	1807.3	1809.1	1803.7	1794.0	1771.2	1761.5	1732.0	1703.1	1675.4	1640.5	1614.6
10°	2026.4	2012.0	2015.0	1984.9	1960.8	1931.9	1891.6	1845.2	1796.5	1747.1	1710.4
12.5°	2201.0	2211.2	2204.0	2189.6	2143.2	2114.9	2078.2	2010.8	1933.7	1867.5	1811.5
15°	2358.7	2344.9	2346.7	2311.8	2294.9	2269.0	2208.2	2141.4	2091.4	1971.6	1905.4
17.5°	2474.3	2473.1	2471.3	2441.8	2421.4	2367.2	2305.2	2236.5	2173.9	2090.8	2007.8
20°	2557.4	2566.4	2564.0	2540.0	2503.8	2451.5	2414.1	2328.6	2225.7	2149.8	2048.1
22.5°	2597.1	2597.7	2599.0	2587.5	2563.4	2529.7	2476.7	2408.1	2316.6	2192.6	2079.4
25°	2517.7	2520.7	2536.3	2546.0	2552.6	2537.5	2509.9	2447.8	2369.0	2242.6	2125.2
27.5°	2322.6	2332.3	2349.7	2407.5	2431.0	2463.5	2474.9	2450.3	2391.9	2286.5	2152.9
30°	2004.8	2031.8	2048.7	2114.3	2206.4	2293.1	2334.1	2374.4	2369.0	2299.1	2163.7
32.5°	1641.1	1658.6	1707.4	1777.8	1850.6	1977.7	2119.7	2217.3	2272.1	2268.4	2172.7
35°	1310.0	1335.3	1376.8	1430.4	1531.0	1662.8	1823.5	1977.1	2114.3	2171.5	2137.2
37.5°	1063.2	1065.6	1104.7	1180.6	1243.2	1359.4	1504.5	1694.1	1874.1	2023.4	2056.5
40°	860.9	877.8	898.2	945.8	1019.8	1131.2	1227.5	1414.2	1600.8	1788.0	1921.7
42.5°	733.3	733.3	756.1	786.2	835.6	902.4	1017.4	1186.6	1354.6	1584.5	1735.0
45°	638.1	644.2	654.4	673.7	708.6	760.4	849.5	964.4	1136.0	1329.3	1555.6
47.5°	569.5	568.9	577.9	589.4	616.5	655.6	708.0	801.3	928.3	1136.6	1336.5
50°	505.7	508.1	514.7	524.4	542.4	570.1	603.2	673.7	780.8	945.8	1155.3
52.5°	456.3	455.7	461.2	467.2	481.0	496.7	526.2	578.5	652.6	783.8	957.8
55°	404.6	407.0	413.6	417.2	428.6	438.9	463.6	493.1	552.7	651.4	809.7
57.5°	360.0	363.0	366.6	370.2	378.1	388.3	408.8	426.8	470.2	541.2	667.6
60°	319.1	317.9	322.1	328.1	332.3	341.3	352.8	371.5	401.6	452.1	544.8
62.5°	278.1	278.7	279.3	283.0	290.8	298.6	308.8	322.7	340.7	378.1	443.7
65°	236.0	236.6	237.8	241.4	249.2	254.1	264.9	276.9	291.4	313.7	359.4
67.5°	198.7	201.1	201.1	204.1	207.1	211.9	219.7	228.8	240.8	257.1	286.6
70°	154.1	153.5	156.5	162.5	165.6	174.0	179.4	185.4	196.3	206.5	231.8
72.5°	124.0	124.0	124.0	126.4	127.0	128.8	132.4	145.1	153.5	163.8	177.6
75°	101.1	101.7	101.7	102.3	102.9	104.8	106.0	109.6	112.0	122.8	131.2
77.5°	80.7	81.3	81.3	81.9	82.5	83.1	85.5	85.5	87.3	89.7	93.3
80°	62.6	62.0	62.0	62.6	62.6	64.4	64.4	65.6	66.2	67.4	69.2
82.5°	44.6	43.9	44.6	43.9	44.6	45.2	46.4	45.8	47.0	48.2	48.8
85°	27.7	28.3	28.3	29.5	28.9	28.3	28.9	28.9	28.9	28.9	30.1
87.5°	12.0	13.2	13.2	12.6	13.2	13.2	12.0	13.2	13.2	13.2	13.8
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°	1394.3	1394.3	1394.3	1394.3	1394.3	1394.3	1394.3	1394.3	1394.3	1394.3	1394.3
2.5°	1448.5	1446.1	1437.0	1428.6	1416.0	1410.6	1403.3	1400.3	1390.7	1377.4	1371.4
5°	1515.9	1497.8	1480.4	1459.3	1441.9	1421.4	1409.9	1396.7	1376.2	1357.6	1344.3
7.5°	1587.5	1561.1	1528.5	1493.6	1462.3	1432.8	1407.5	1386.5	1360.0	1334.1	1313.6
10°	1666.4	1621.3	1568.9	1524.3	1479.2	1436.4	1404.5	1372.6	1338.3	1305.8	1281.1
12.5°	1751.3	1687.5	1624.3	1557.4	1490.0	1440.7	1393.1	1352.2	1313.6	1279.3	1249.8
15°	1839.2	1751.9	1671.2	1596.0	1502.1	1435.8	1383.5	1332.9	1284.7	1242.6	1213.7
17.5°	1901.8	1801.9	1700.1	1593.6	1512.9	1431.0	1366.0	1302.2	1257.6	1214.3	1175.2
20°	1959.6	1846.4	1725.4	1626.1	1513.5	1413.6	1342.5	1281.1	1219.1	1172.7	1139.6
22.5°	1984.3	1881.9	1759.7	1621.9	1509.3	1406.9	1315.4	1246.2	1190.8	1140.2	1096.9
25°	1989.1	1874.7	1749.5	1616.4	1493.0	1382.3	1289.5	1220.3	1148.1	1095.7	1062.0
27.5°	2010.2	1853.6	1730.8	1598.4	1473.2	1357.6	1260.0	1183.0	1115.6	1059.6	1016.2
30°	2015.6	1844.6	1691.1	1564.7	1435.8	1322.7	1223.9	1146.3	1072.8	1015.6	976.5
32.5°	2018.0	1832.6	1649.6	1511.1	1388.3	1281.7	1191.4	1107.1	1037.3	977.1	936.8
35°	2009.6	1815.7	1599.6	1450.3	1332.3	1227.5	1143.9	1069.2	991.5	934.9	892.2
37.5°	1976.5	1789.2	1571.3	1379.2	1266.7	1167.9	1096.9	1023.4	951.8	890.4	846.5
40°	1913.8	1750.7	1518.3	1319.6	1192.0	1103.5	1037.3	977.1	904.8	845.8	802.5
42.5°	1813.9	1698.3	1469.5	1252.2	1118.0	1034.3	978.9	927.1	862.1	806.1	758.6
45°	1665.8	1624.9	1404.5	1183.6	1037.3	958.4	910.3	869.9	810.9	759.8	715.8
47.5°	1505.7	1514.7	1338.9	1113.8	963.8	888.6	846.5	810.9	766.4	711.6	671.3
50°	1320.8	1370.2	1246.8	1043.3	890.4	816.3	774.8	753.1	711.6	665.8	627.9
52.5°	1151.7	1229.9	1153.5	966.3	818.2	745.3	706.8	685.1	657.4	619.5	581.0
55°	976.5	1075.8	1020.4	883.2	744.7	671.3	638.8	621.9	599.0	569.5	534.6
57.5°	831.4	937.4	902.4	795.9	673.1	606.8	577.9	558.7	544.8	517.7	489.4
60°	689.3	787.5	773.6	695.3	602.0	538.8	516.5	500.9	489.4	469.6	441.9
62.5°	556.3	651.4	659.8	598.4	532.8	475.6	455.1	444.3	435.3	419.6	394.3
65°	441.3	525.0	542.4	495.5	459.9	416.6	396.7	390.1	383.5	365.4	346.2
67.5°	345.6	411.2	434.1	407.6	382.3	357.0	341.3	332.3	327.5	316.7	303.4
70°	264.3	320.9	340.1	328.7	311.9	302.2	290.2	284.2	279.3	265.5	258.3
72.5°	198.1	236.6	260.7	257.1	253.5	246.8	239.6	237.8	230.6	221.5	214.9
75°	145.1	167.4	189.0	196.9	195.7	198.1	190.2	187.2	183.0	176.4	171.0
77.5°	104.2	117.4	132.4	142.1	146.9	147.5	147.5	145.7	142.7	137.9	133.7
80°	72.2	75.3	89.1	98.1	102.9	106.6	106.6	107.2	104.2	102.3	99.3
82.5°	50.0	51.8	54.8	62.0	68.0	72.2	72.8	72.2	71.0	70.4	66.2
85°	31.3	30.7	30.7	32.5	37.3	41.5	42.1	43.3	42.7	42.1	37.9
87.5°	13.2	13.2	13.8	13.2	15.1	15.7	16.9	19.9	19.3	16.3	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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1394.3	1394.3	1394.3	1394.3	1394.3	1394.3	1394.3	1394.3	1394.3	1394.3	1394.3
2.5°	1367.8	1360.0	1352.8	1344.9	1335.3	1326.3	1325.1	1323.9	1326.9	1320.8	1318.4
5°	1334.1	1319.0	1307.6	1293.2	1282.9	1269.7	1262.5	1260.6	1260.0	1256.4	1251.6
7.5°	1297.4	1281.1	1264.9	1248.6	1231.7	1217.9	1210.1	1205.9	1202.2	1196.2	1191.4
10°	1263.1	1242.6	1225.1	1202.9	1184.8	1166.7	1159.5	1153.5	1149.9	1141.4	1134.8
12.5°	1224.5	1198.6	1179.4	1155.3	1139.0	1123.4	1111.9	1100.5	1092.1	1079.4	1074.0
15°	1190.8	1163.7	1131.2	1116.8	1093.9	1070.4	1057.8	1057.8	1040.3	1030.1	1023.4
17.5°	1145.7	1122.2	1099.3	1069.8	1037.3	1023.4	1009.0	996.4	984.3	981.3	969.3
20°	1105.9	1078.2	1054.8	1022.8	993.3	977.1	960.2	946.4	937.4	928.9	922.3
22.5°	1066.8	1039.1	1003.0	971.7	951.8	930.1	912.1	900.0	892.2	879.6	873.5
25°	1025.9	992.7	960.2	929.5	904.8	886.2	867.5	860.9	847.1	840.4	832.0
27.5°	984.9	945.2	914.5	888.0	860.3	842.2	829.6	817.6	805.5	801.9	797.1
30°	939.2	902.4	872.9	847.1	820.6	804.9	789.9	779.0	768.8	761.0	755.5
32.5°	893.4	862.7	834.4	804.3	780.2	763.4	750.7	741.1	736.3	723.0	718.2
35°	851.3	820.0	789.9	761.6	742.3	726.0	714.6	705.6	695.3	686.9	682.1
37.5°	807.9	779.6	748.9	724.8	703.2	689.9	677.3	665.2	657.4	652.6	646.6
40°	765.8	735.7	712.2	685.7	666.4	651.4	638.1	629.1	619.5	615.3	607.4
42.5°	726.0	697.1	670.1	646.0	628.5	614.1	601.4	591.2	583.4	575.5	571.3
45°	680.3	655.0	630.3	606.2	590.0	574.3	560.5	551.5	540.6	534.0	531.6
47.5°	641.8	615.3	588.8	566.5	549.7	532.8	521.4	510.5	501.5	494.9	491.3
50°	596.0	571.3	549.7	527.4	511.1	493.1	479.2	469.0	458.7	453.9	447.9
52.5°	556.9	532.8	506.3	486.4	467.8	452.1	439.5	431.1	422.0	414.8	410.6
55°	508.1	484.6	463.6	442.5	423.8	411.2	401.0	386.5	378.7	371.5	360.0
57.5°	465.4	443.1	420.8	400.3	382.9	367.8	355.2	345.6	335.3	329.9	322.1
60°	420.2	396.7	376.3	360.6	341.3	325.1	316.7	305.2	296.8	288.4	286.0
62.5°	375.7	354.0	333.5	317.3	299.8	287.2	276.3	270.9	262.5	255.9	253.5
65°	329.3	311.2	292.0	273.9	263.1	248.6	242.6	233.6	228.8	225.8	225.2
67.5°	283.6	267.3	249.8	236.0	225.8	216.1	208.9	205.3	200.5	196.9	193.9
70°	242.0	226.4	211.3	199.9	192.0	184.8	180.0	173.4	168.6	163.8	157.1
72.5°	201.1	188.4	175.8	166.8	158.9	154.7	148.1	137.9	133.0	131.8	131.2
75°	163.1	149.3	140.3	135.5	128.2	118.0	113.8	112.6	112.0	110.8	110.8
77.5°	125.8	117.4	111.4	101.1	97.5	96.9	93.9	93.3	92.1	92.7	92.7
80°	91.5	86.7	79.5	76.5	75.3	75.9	74.7	75.3	74.0	74.7	73.4
82.5°	60.8	56.6	57.8	56.0	56.0	57.2	56.6	54.8	54.8	54.2	54.2
85°	36.1	35.5	36.7	36.7	36.1	34.3	35.5	34.9	33.1	33.7	33.7
87.5°	15.7	15.7	15.7	15.1	15.7	15.1	15.1	15.1	13.2	13.2	13.2
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: P243432

CATALOG NUMBER: S123RDRP-H1000D835-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1394.3	1394.3	1394.3	1394.3
2.5°	1319.6	1318.4	1316.6	1314.8
5°	1251.6	1246.2	1245.6	1243.8
7.5°	1187.8	1185.4	1181.2	1186.0
10°	1129.4	1131.2	1127.0	1122.2
12.5°	1068.6	1065.0	1058.4	1062.0
15°	1015.0	1009.0	1005.4	997.0
17.5°	959.0	954.2	954.2	948.8
20°	910.3	905.4	906.7	903.0
22.5°	869.3	865.7	860.3	860.9
25°	830.8	825.4	819.4	820.0
27.5°	788.1	783.2	782.0	777.8
30°	750.1	745.9	745.3	745.3
32.5°	713.4	711.6	708.6	706.8
35°	681.5	679.1	674.3	675.5
37.5°	641.8	639.4	638.8	638.1
40°	604.4	602.6	597.8	598.4
42.5°	567.1	564.1	561.1	559.9
45°	526.8	526.2	521.4	522.6
47.5°	488.2	487.0	484.6	481.6
50°	445.5	444.9	443.1	439.5
52.5°	404.0	402.2	398.5	394.9
55°	357.0	351.6	352.2	349.2
57.5°	318.5	316.1	311.2	309.4
60°	281.1	278.7	278.1	275.7
62.5°	249.8	247.4	245.6	245.6
65°	221.5	218.5	217.9	217.9
67.5°	190.2	187.2	186.6	185.4
70°	151.1	150.5	149.3	149.3
72.5°	130.0	129.4	130.0	127.6
75°	110.8	110.2	110.2	110.8
77.5°	92.1	92.1	91.5	91.5
80°	72.8	73.4	72.8	74.7
82.5°	54.8	53.6	54.2	53.0
85°	33.7	33.7	32.5	32.5
87.5°	13.2	13.2	13.2	13.2
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243432  
 CATALOG NUMBER: S123RDRP-H1000D835-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	18.21	19.71	18.58	20.03	20.34	20.91	22.41	21.28	22.73	23.04
	3H	19.40	20.74	19.78	21.07	21.43	22.34	23.68	22.71	24.01	24.37
	4H	19.75	21.01	20.15	21.36	21.74	22.84	24.10	23.24	24.45	24.83
	6H	20.03	21.19	20.44	21.56	21.95	23.18	24.35	23.60	24.72	25.11
	8H	20.12	21.22	20.54	21.61	22.01	23.29	24.39	23.71	24.78	25.18
	12H	20.18	21.24	20.61	21.62	22.05	23.34	24.40	23.78	24.79	25.22
4H	2H	19.16	20.42	19.56	20.77	21.15	21.19	22.45	21.59	22.80	23.18
	3H	20.43	21.47	20.84	21.87	22.28	22.91	23.95	23.32	24.35	24.75
	4H	20.84	21.77	21.27	22.19	22.63	23.52	24.46	23.95	24.88	25.31
	6H	21.18	22.00	21.64	22.44	22.90	23.98	24.79	24.44	25.24	25.70
	8H	21.30	22.06	21.76	22.50	22.97	24.12	24.88	24.58	25.32	25.79
	12H	21.39	22.07	21.87	22.55	23.02	24.21	24.89	24.69	25.37	25.84
8H	4H	21.20	21.96	21.66	22.40	22.87	23.58	24.34	24.04	24.79	25.25
	6H	21.62	22.25	22.11	22.74	23.22	24.11	24.74	24.61	25.23	25.71
	8H	21.78	22.35	22.30	22.86	23.34	24.30	24.86	24.81	25.37	25.86
	12H	21.93	22.43	22.44	22.92	23.48	24.45	24.95	24.96	25.44	26.01
12H	4H	21.23	21.91	21.71	22.39	22.86	23.57	24.25	24.05	24.73	25.20
	6H	21.66	22.23	22.18	22.74	23.23	24.10	24.66	24.61	25.17	25.66
	8H	21.87	22.37	22.38	22.87	23.43	24.33	24.83	24.84	25.32	25.88