

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: P243427

Luminaire Tested: S123RDRP-H1000D830-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P243427  
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-H1000D830-X4F0-XX-UDD-A-W  
Description: DEFINE 3 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: (184) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

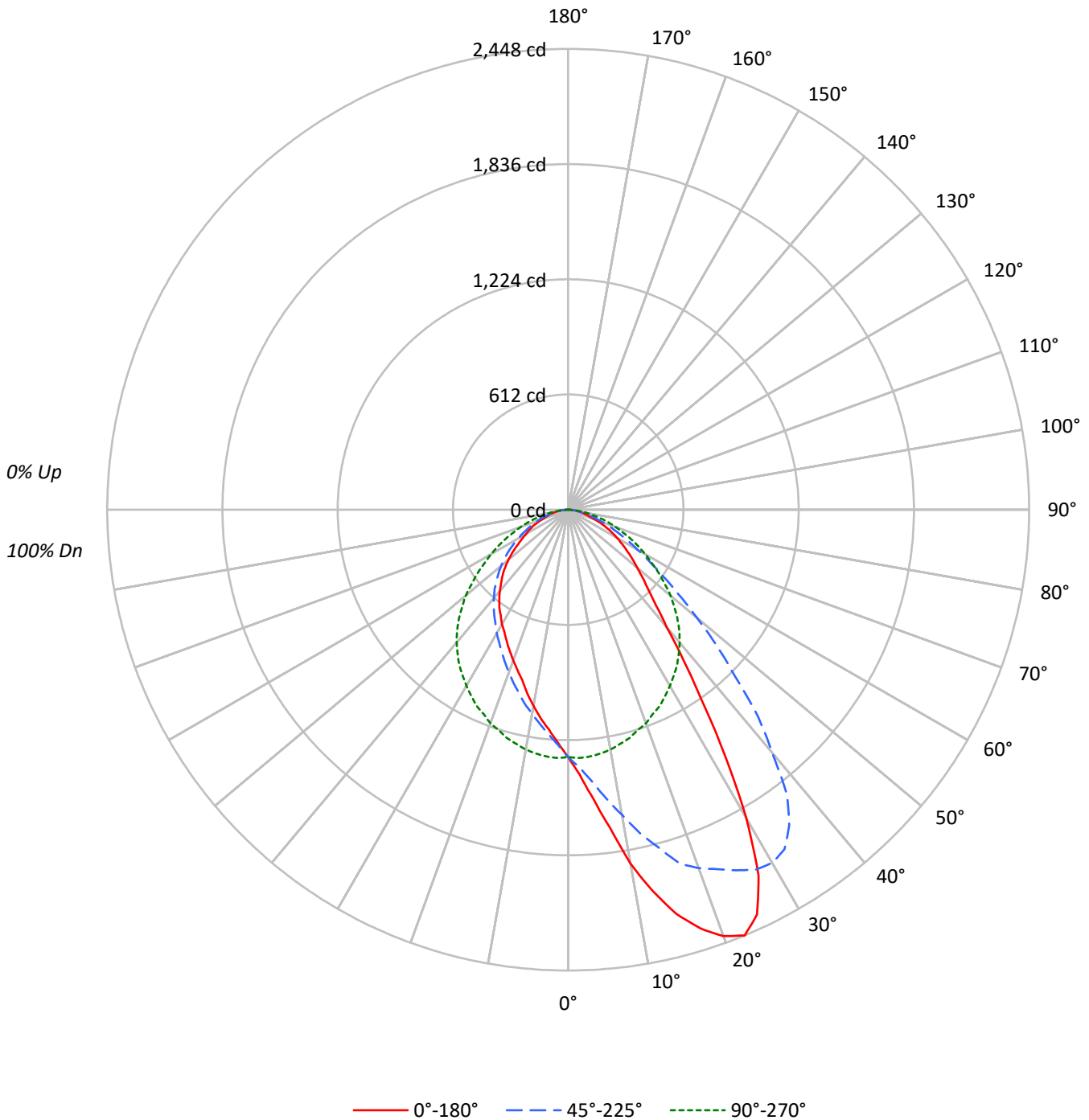
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3424.3 lumens  
Efficiency: N/A  
Efficacy: 108.7 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°	15930	15930	15930	15930	15930
5°	18779	17627	16019	14561	14264
10°	23509	20268	15924	13535	13018
15°	27899	23321	15765	12660	11792
20°	31093	26138	15576	11879	10980
25°	31737	28269	15383	11172	10336
30°	26448	30330	15122	10619	9832
35°	18270	30286	14913	10126	9421
40°	12839	26667	14572	9715	8924
45°	10311	21477	14055	9279	8442
50°	8987	16809	13387	8763	7811
55°	8058	12975	12388	8191	6955
60°	7290	10330	11445	7428	6301
65°	6379	8478	10546	6723	5891
70°	5149	6897	9491	6174	4986
75°	4463	5423	8266	5208	4889
80°	4118	4439	7050	4991	4914
85°	3630	3783	5688	4492	4256

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 55°  
 Vertical Angle: 45°  
 Luminance: 26915 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.9	3.8
10°-20°	405.9	11.9
20°-30°	650.3	19.0
30°-40°	706.0	20.6
40°-50°	604.9	17.7
50°-60°	458.5	13.4
60°-70°	293.0	8.6
70°-80°	140.1	4.1
80°-90°	36.8	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°	1185.1	34.6
0°-40°	1891.1	55.2
0°-60°	2954.4	86.3
0°-90°	3424.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3424.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1314	1314	1314	1314	1314	
5°	1543	1449	1316	1197	1172	158
15°	2223	1858	1256	1009	940	630
25°	2373	2114	1150	835	773	1053
35°	1235	2047	1008	684	637	793
45°	602	1253	820	541	492	475
55°	381	614	586	388	329	344
65°	222	296	368	234	205	221
75°	95	116	176	111	104	103
85°	26	27	41	32	31	30
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°	1314.2	1314.2	1314.2	1314.2	1314.2	1314.2	1314.2	1314.2	1314.2	1314.2	1314.2
2.5°	1408.4	1410.1	1407.2	1406.7	1406.1	1397.0	1394.2	1389.7	1373.8	1369.8	1367.0
5°	1543.4	1538.9	1544.0	1534.3	1523.6	1517.3	1507.1	1484.4	1464.6	1448.7	1438.5
7.5°	1703.4	1705.1	1700.0	1691.0	1669.4	1660.3	1632.5	1605.3	1579.2	1546.3	1521.9
10°	1910.0	1896.4	1899.2	1870.8	1848.1	1820.9	1782.9	1739.2	1693.2	1646.7	1612.1
12.5°	2074.5	2084.2	2077.4	2063.8	2020.1	1993.4	1958.8	1895.2	1822.6	1760.2	1707.4
15°	2223.2	2210.2	2211.9	2179.0	2163.1	2138.7	2081.4	2018.4	1971.3	1858.4	1795.9
17.5°	2332.2	2331.0	2329.3	2301.5	2282.2	2231.2	2172.7	2108.0	2049.0	1970.7	1892.4
20°	2410.5	2419.0	2416.7	2394.0	2360.0	2310.6	2275.4	2194.8	2097.8	2026.3	1930.4
22.5°	2447.9	2448.5	2449.6	2438.8	2416.1	2384.4	2334.4	2269.7	2183.5	2066.6	1959.9
25°	2373.0	2375.9	2390.6	2399.7	2405.9	2391.7	2365.6	2307.2	2232.9	2113.7	2003.1
27.5°	2189.2	2198.2	2214.7	2269.2	2291.3	2322.0	2332.7	2309.5	2254.4	2155.1	2029.2
30°	1889.6	1915.1	1931.0	1992.8	2079.7	2161.4	2200.0	2238.0	2232.9	2167.0	2039.4
32.5°	1546.8	1563.3	1609.3	1675.6	1744.3	1864.0	1997.9	2089.9	2141.5	2138.1	2047.9
35°	1234.7	1258.6	1297.7	1348.2	1443.0	1567.3	1718.8	1863.5	1992.8	2046.7	2014.4
37.5°	1002.1	1004.4	1041.2	1112.7	1171.8	1281.3	1418.0	1596.8	1766.4	1907.2	1938.4
40°	811.4	827.3	846.6	891.4	961.2	1066.2	1157.0	1332.9	1508.8	1685.3	1811.3
42.5°	691.1	691.1	712.7	741.1	787.6	850.6	959.0	1118.4	1276.7	1493.5	1635.4
45°	601.5	607.2	616.8	635.0	667.9	716.7	800.7	909.0	1070.8	1252.9	1466.3
47.5°	536.8	536.2	544.7	555.5	581.1	617.9	667.3	755.3	875.0	1071.3	1259.7
50°	476.6	478.9	485.2	494.2	511.3	537.4	568.6	635.0	736.0	891.4	1088.9
52.5°	430.1	429.5	434.7	440.3	453.4	468.1	495.9	545.3	615.1	738.8	902.8
55°	381.3	383.6	389.8	393.2	404.0	413.7	436.9	464.7	520.9	614.0	763.2
57.5°	339.3	342.2	345.6	349.0	356.4	366.0	385.3	402.3	443.2	510.1	629.3
60°	300.7	299.6	303.6	309.3	313.2	321.7	332.5	350.1	378.5	426.1	513.5
62.5°	262.2	262.7	263.3	266.7	274.1	281.4	291.1	304.1	321.2	356.4	418.2
65°	222.4	223.0	224.1	227.5	234.9	239.5	249.7	261.0	274.6	295.6	338.8
67.5°	187.3	189.5	189.5	192.4	195.2	199.7	207.1	215.6	227.0	242.3	270.1
70°	145.3	144.7	147.5	153.2	156.0	164.0	169.1	174.8	185.0	194.6	218.5
72.5°	116.9	116.9	116.9	119.2	119.7	121.4	124.8	136.8	144.7	154.3	167.4
75°	95.3	95.9	95.9	96.5	97.0	98.7	99.9	103.3	105.5	115.8	123.7
77.5°	76.0	76.6	76.6	77.2	77.7	78.3	80.6	80.6	82.3	84.5	88.0
80°	59.0	58.4	58.4	59.0	59.0	60.7	60.7	61.9	62.4	63.6	65.3
82.5°	42.0	41.4	42.0	41.4	42.0	42.6	43.7	43.1	44.3	45.4	46.0
85°	26.1	26.7	26.7	27.8	27.2	26.7	27.2	27.2	27.2	27.2	28.4
87.5°	11.3	12.5	12.5	11.9	12.5	12.5	11.3	12.5	12.5	12.5	13.1
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°	1314.2	1314.2	1314.2	1314.2	1314.2	1314.2	1314.2	1314.2	1314.2	1314.2	1314.2
2.5°	1365.3	1363.0	1354.5	1346.5	1334.6	1329.5	1322.7	1319.9	1310.8	1298.3	1292.6
5°	1428.8	1411.8	1395.3	1375.5	1359.0	1339.7	1328.9	1316.5	1297.2	1279.6	1267.1
7.5°	1496.3	1471.4	1440.7	1407.8	1378.3	1350.5	1326.7	1306.8	1281.8	1257.4	1238.1
10°	1570.7	1528.1	1478.7	1436.7	1394.2	1353.9	1323.8	1293.8	1261.4	1230.8	1207.5
12.5°	1650.7	1590.5	1530.9	1468.0	1404.4	1357.9	1313.0	1274.5	1238.1	1205.8	1178.0
15°	1733.5	1651.2	1575.2	1504.3	1415.8	1353.3	1304.0	1256.3	1210.9	1171.2	1144.0
17.5°	1792.5	1698.3	1602.4	1502.0	1426.0	1348.8	1287.5	1227.4	1185.4	1144.5	1107.6
20°	1847.0	1740.3	1626.3	1532.6	1426.5	1332.3	1265.4	1207.5	1149.1	1105.4	1074.2
22.5°	1870.3	1773.8	1658.6	1528.7	1422.6	1326.1	1239.8	1174.6	1122.4	1074.7	1033.9
25°	1874.8	1767.0	1649.0	1523.6	1407.2	1302.8	1215.4	1150.2	1082.1	1032.7	1001.0
27.5°	1894.7	1747.1	1631.4	1506.5	1388.5	1279.6	1187.6	1115.0	1051.5	998.7	957.8
30°	1899.8	1738.6	1593.9	1474.8	1353.3	1246.7	1153.6	1080.4	1011.2	957.3	920.4
32.5°	1902.0	1727.3	1554.8	1424.3	1308.5	1208.1	1123.0	1043.5	977.7	920.9	882.9
35°	1894.1	1711.4	1507.7	1367.0	1255.7	1157.0	1078.1	1007.8	934.6	881.2	840.9
37.5°	1862.9	1686.4	1481.0	1300.0	1193.9	1100.8	1033.9	964.6	897.1	839.2	797.8
40°	1803.9	1650.1	1431.1	1243.8	1123.5	1040.1	977.7	920.9	852.9	797.2	756.4
42.5°	1709.7	1600.7	1385.1	1180.3	1053.7	974.9	922.7	873.9	812.6	759.8	715.0
45°	1570.1	1531.5	1323.8	1115.6	977.7	903.4	858.0	819.9	764.3	716.1	674.7
47.5°	1419.2	1427.7	1262.0	1049.8	908.5	837.5	797.8	764.3	722.3	670.7	632.7
50°	1245.0	1291.5	1175.2	983.4	839.2	769.4	730.3	709.9	670.7	627.6	591.8
52.5°	1085.5	1159.3	1087.2	910.7	771.1	702.5	666.2	645.7	619.6	583.9	547.6
55°	920.4	1014.0	961.8	832.4	701.9	632.7	602.1	586.2	564.6	536.8	503.9
57.5°	783.6	883.5	850.6	750.2	634.4	572.0	544.7	526.6	513.5	488.0	461.3
60°	649.7	742.2	729.2	655.4	567.4	507.9	486.9	472.1	461.3	442.6	416.5
62.5°	524.3	614.0	621.9	564.0	502.2	448.3	429.0	418.8	410.3	395.5	371.7
65°	415.9	494.8	511.3	467.0	433.5	392.7	373.9	367.7	361.5	344.4	326.3
67.5°	325.7	387.6	409.1	384.2	360.3	336.5	321.7	313.2	308.7	298.5	286.0
70°	249.1	302.4	320.6	309.8	293.9	284.9	273.5	267.8	263.3	250.2	243.4
72.5°	186.7	223.0	245.7	242.3	238.9	232.6	225.8	224.1	217.3	208.8	202.6
75°	136.8	157.7	178.2	185.6	184.4	186.7	179.3	176.5	172.5	166.3	161.2
77.5°	98.2	110.7	124.8	133.9	138.5	139.0	139.0	137.3	134.5	129.9	126.0
80°	68.1	70.9	84.0	92.5	97.0	100.4	100.4	101.0	98.2	96.5	93.6
82.5°	47.1	48.8	51.6	58.4	64.1	68.1	68.7	68.1	67.0	66.4	62.4
85°	29.5	28.9	28.9	30.6	35.2	39.2	39.7	40.9	40.3	39.7	35.7
87.5°	12.5	12.5	13.1	12.5	14.2	14.8	15.9	18.7	18.2	15.3	14.2
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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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1314.2	1314.2	1314.2	1314.2	1314.2	1314.2	1314.2	1314.2	1314.2	1314.2	1314.2
2.5°	1289.2	1281.8	1275.0	1267.7	1258.6	1250.1	1248.9	1247.8	1250.6	1245.0	1242.7
5°	1257.4	1243.3	1232.5	1218.9	1209.2	1196.7	1189.9	1188.2	1187.6	1184.2	1179.7
7.5°	1222.8	1207.5	1192.2	1176.9	1161.0	1147.9	1140.5	1136.6	1133.2	1127.5	1123.0
10°	1190.5	1171.2	1154.7	1133.7	1116.7	1099.7	1092.9	1087.2	1083.8	1075.9	1069.6
12.5°	1154.2	1129.8	1111.6	1088.9	1073.6	1058.8	1048.1	1037.3	1029.3	1017.4	1012.3
15°	1122.4	1096.9	1066.2	1052.6	1031.0	1008.9	997.0	997.0	980.5	970.9	964.6
17.5°	1079.8	1057.7	1036.1	1008.3	977.7	964.6	951.0	939.1	927.8	924.9	913.6
20°	1042.4	1016.3	994.1	964.1	936.3	920.9	905.1	892.0	883.5	875.6	869.3
22.5°	1005.5	979.4	945.3	915.8	897.1	876.7	859.7	848.3	840.9	829.0	823.4
25°	966.9	935.7	905.1	876.1	852.9	835.3	817.7	811.4	798.4	792.1	784.2
27.5°	928.3	890.9	861.9	837.0	810.9	793.8	781.9	770.6	759.2	755.8	751.3
30°	885.2	850.6	822.8	798.4	773.4	758.7	744.5	734.3	724.6	717.2	712.1
32.5°	842.1	813.1	786.5	758.1	735.4	719.5	707.6	698.5	694.0	681.5	677.0
35°	802.4	772.8	744.5	717.8	699.6	684.3	673.5	665.0	655.4	647.4	642.9
37.5°	761.5	734.8	705.9	683.2	662.8	650.3	638.4	627.0	619.6	615.1	609.4
40°	721.8	693.4	671.3	646.3	628.2	614.0	601.5	593.0	583.9	579.9	572.5
42.5°	684.3	657.1	631.6	608.9	592.4	578.8	566.9	557.2	549.8	542.5	538.5
45°	641.2	617.4	594.1	571.4	556.1	541.3	528.3	519.8	509.6	503.3	501.0
47.5°	604.9	579.9	555.0	534.0	518.1	502.2	491.4	481.2	472.7	466.4	463.0
50°	561.8	538.5	518.1	497.1	481.8	464.7	451.7	442.0	432.4	427.8	422.2
52.5°	524.9	502.2	477.2	458.5	440.9	426.1	414.2	406.3	397.8	391.0	387.0
55°	478.9	456.8	436.9	417.1	399.5	387.6	377.9	364.3	356.9	350.1	339.3
57.5°	438.6	417.6	396.6	377.3	360.9	346.7	334.8	325.7	316.1	311.0	303.6
60°	396.1	373.9	354.6	339.9	321.7	306.4	298.5	287.7	279.7	271.8	269.5
62.5°	354.1	333.7	314.4	299.0	282.6	270.7	260.5	255.3	247.4	241.2	238.9
65°	310.4	293.4	275.2	258.2	248.0	234.4	228.7	220.2	215.6	212.8	212.2
67.5°	267.3	251.9	235.5	222.4	212.8	203.7	196.9	193.5	189.0	185.6	182.7
70°	228.1	213.4	199.2	188.4	181.0	174.2	169.7	163.4	158.9	154.3	148.1
72.5°	189.5	177.6	165.7	157.2	149.8	145.8	139.6	129.9	125.4	124.3	123.7
75°	153.8	140.7	132.2	127.7	120.9	111.2	107.2	106.1	105.5	104.4	104.4
77.5°	118.6	110.7	105.0	95.3	91.9	91.4	88.5	88.0	86.8	87.4	87.4
80°	86.3	81.7	74.9	72.1	70.9	71.5	70.4	70.9	69.8	70.4	69.2
82.5°	57.3	53.3	54.5	52.8	52.8	53.9	53.3	51.6	51.6	51.1	51.1
85°	34.0	33.5	34.6	34.6	34.0	32.3	33.5	32.9	31.2	31.8	31.8
87.5°	14.8	14.8	14.8	14.2	14.8	14.2	14.2	14.2	12.5	12.5	12.5
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: P243427

CATALOG NUMBER: S123RDRP-H1000D830-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1314.2	1314.2	1314.2	1314.2
2.5°	1243.8	1242.7	1241.0	1239.3
5°	1179.7	1174.6	1174.0	1172.3
7.5°	1119.6	1117.3	1113.3	1117.9
10°	1064.5	1066.2	1062.2	1057.7
12.5°	1007.2	1003.8	997.6	1001.0
15°	956.7	951.0	947.6	939.7
17.5°	903.9	899.4	899.4	894.3
20°	858.0	853.4	854.6	851.2
22.5°	819.4	816.0	810.9	811.4
25°	783.1	778.0	772.3	772.8
27.5°	742.8	738.2	737.1	733.1
30°	707.0	703.1	702.5	702.5
32.5°	672.4	670.7	667.9	666.2
35°	642.3	640.1	635.5	636.7
37.5°	604.9	602.6	602.1	601.5
40°	569.7	568.0	563.5	564.0
42.5°	534.5	531.7	528.9	527.7
45°	496.5	495.9	491.4	492.5
47.5°	460.2	459.1	456.8	453.9
50°	419.9	419.3	417.6	414.2
52.5°	380.7	379.0	375.6	372.2
55°	336.5	331.4	332.0	329.1
57.5°	300.2	297.9	293.4	291.7
60°	265.0	262.7	262.2	259.9
62.5°	235.5	233.2	231.5	231.5
65°	208.8	206.0	205.4	205.4
67.5°	179.3	176.5	175.9	174.8
70°	142.4	141.9	140.7	140.7
72.5°	122.6	122.0	122.6	120.3
75°	104.4	103.8	103.8	104.4
77.5°	86.8	86.8	86.3	86.3
80°	68.7	69.2	68.7	70.4
82.5°	51.6	50.5	51.1	49.9
85°	31.8	31.8	30.6	30.6
87.5°	12.5	12.5	12.5	12.5
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243427  
 CATALOG NUMBER: S123RDRP-H1000D830-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	18.01	19.51	18.37	19.82	20.14	20.70	22.21	21.07	22.52	22.83
	3H	19.19	20.54	19.57	20.87	21.23	22.13	23.48	22.51	23.80	24.17
	4H	19.55	20.81	19.95	21.15	21.53	22.63	23.89	23.03	24.24	24.62
	6H	19.82	20.98	20.23	21.35	21.74	22.98	24.14	23.39	24.51	24.90
	8H	19.91	21.02	20.34	21.41	21.81	23.08	24.19	23.51	24.58	24.98
	12H	19.97	21.03	20.40	21.41	21.84	23.14	24.20	23.57	24.58	25.01
4H	2H	18.96	20.22	19.36	20.56	20.94	20.98	22.24	21.38	22.59	22.97
	3H	20.22	21.27	20.64	21.67	22.07	22.70	23.74	23.11	24.14	24.55
	4H	20.63	21.57	21.06	21.99	22.42	23.32	24.25	23.75	24.67	25.11
	6H	20.98	21.79	21.44	22.24	22.70	23.77	24.59	24.23	25.03	25.49
	8H	21.09	21.85	21.56	22.30	22.77	23.91	24.67	24.37	25.12	25.58
	12H	21.18	21.86	21.67	22.34	22.81	24.01	24.69	24.49	25.16	25.64
8H	4H	20.99	21.75	21.46	22.20	22.67	23.38	24.14	23.84	24.58	25.05
	6H	21.41	22.04	21.91	22.53	23.01	23.90	24.53	24.40	25.02	25.50
	8H	21.58	22.14	22.09	22.65	23.14	24.09	24.66	24.61	25.17	25.66
	12H	21.72	22.22	22.23	22.71	23.28	24.25	24.74	24.76	25.24	25.80
12H	4H	21.02	21.70	21.51	22.18	22.65	23.36	24.04	23.85	24.52	24.99
	6H	21.46	22.02	21.97	22.53	23.02	23.89	24.46	24.41	24.97	25.46
	8H	21.67	22.17	22.18	22.66	23.22	24.12	24.62	24.63	25.11	25.68