

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: P243437

Luminaire Tested: S123RDRP-H1000D840-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243437
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-H1000D840-X4F0-XX-UDD-A-W
Description: DEFINE 3 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

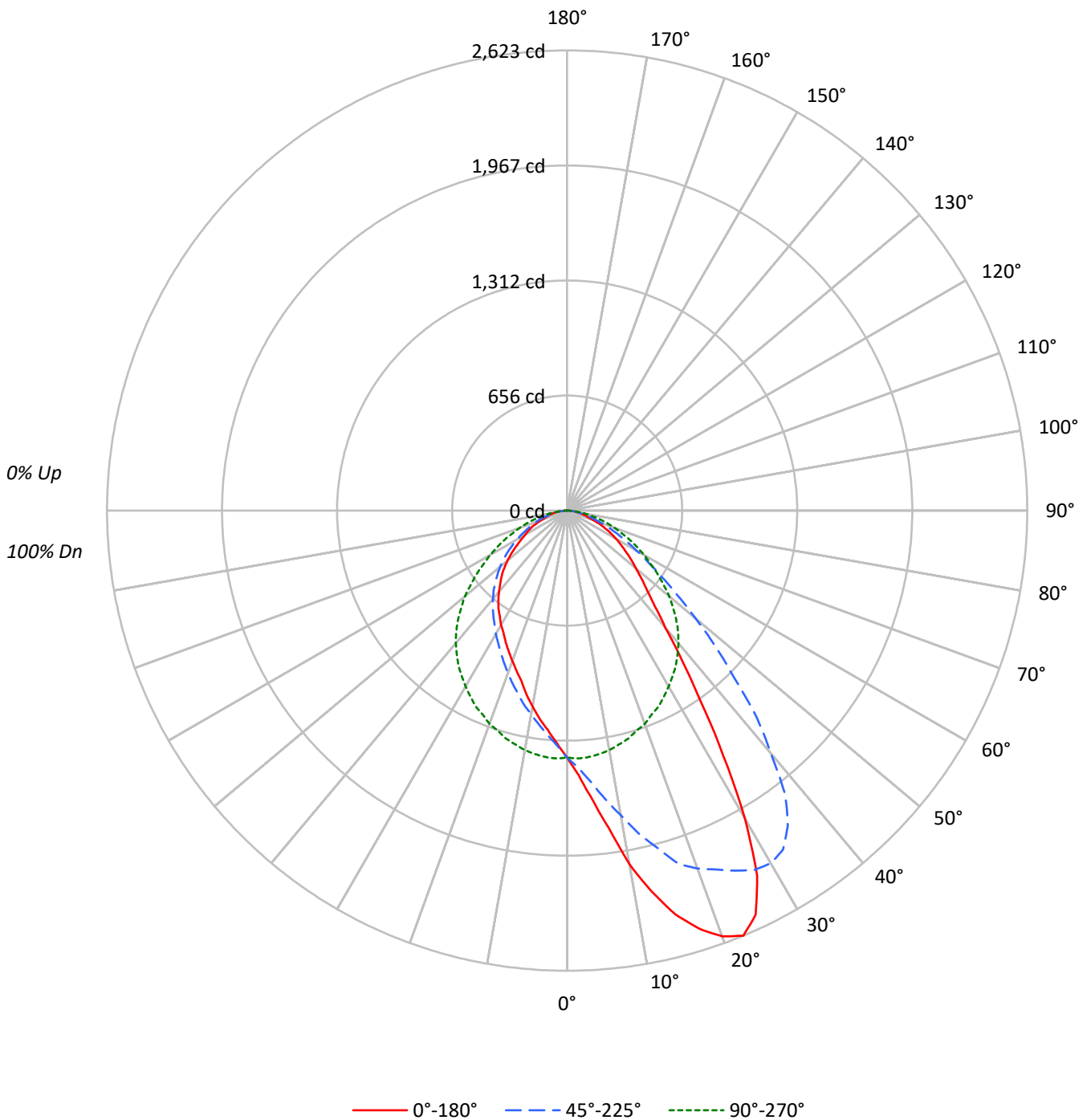
Lumens per Lamp: N/A
Luminaire Lumens: 3668.9 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.22 / 1.4
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')
CIE Type: Direct

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					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°	17068	17068	17068	17068	17068
5°	20121	18885	17162	15601	15284
10°	25188	21715	17062	14502	13948
15°	29891	24986	16891	13565	12634
20°	33313	28004	16689	12728	11763
25°	34004	30289	16481	11969	11075
30°	28336	32497	16202	11378	10535
35°	19575	32449	15977	10849	10093
40°	13757	28572	15613	10408	9562
45°	11046	23011	15059	9942	9046
50°	9630	18011	14343	9389	8369
55°	8635	13901	13271	8774	7451
60°	7811	11069	12262	7959	6749
65°	6835	9086	11300	7202	6313
70°	5514	7389	10171	6613	5344
75°	4782	5807	8856	5582	5241
80°	4412	4754	7553	5347	5263
85°	3894	4061	6092	4826	4562

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 28836 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.1	3.8
10°-20°	434.9	11.9
20°-30°	696.8	19.0
30°-40°	756.4	20.6
40°-50°	648.1	17.7
50°-60°	491.2	13.4
60°-70°	313.9	8.6
70°-80°	150.1	4.1
80°-90°	39.4	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°	1269.7	34.6
0°-40°	2026.1	55.2
0°-60°	3165.5	86.3
0°-90°	3668.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3668.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1408	1408	1408	1408	1408	
5°	1654	1552	1410	1282	1256	170
15°	2382	1991	1346	1081	1007	675
25°	2542	2265	1232	895	828	1128
35°	1323	2193	1080	733	682	850
45°	644	1342	878	580	528	509
55°	409	658	628	415	353	368
65°	238	317	394	251	220	237
75°	102	124	189	119	112	110
85°	28	29	44	35	33	32
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°	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1
2.5°	1509.0	1510.8	1507.8	1507.1	1506.5	1496.8	1493.8	1488.9	1471.9	1467.6	1464.6
5°	1653.7	1648.8	1654.3	1643.9	1632.4	1625.7	1614.8	1590.4	1569.2	1552.1	1541.2
7.5°	1825.1	1826.9	1821.5	1811.7	1788.6	1778.9	1749.1	1719.9	1692.0	1656.7	1630.6
10°	2046.4	2031.8	2034.9	2004.5	1980.1	1951.0	1910.2	1863.4	1814.2	1764.3	1727.2
12.5°	2222.7	2233.1	2225.8	2211.2	2164.4	2135.8	2098.7	2030.6	1952.8	1885.9	1829.4
15°	2382.0	2368.0	2369.9	2334.6	2317.6	2291.4	2230.0	2162.5	2112.1	1991.1	1924.2
17.5°	2498.7	2497.5	2495.7	2465.9	2445.2	2390.5	2327.9	2258.6	2195.4	2111.5	2027.6
20°	2582.6	2591.8	2589.3	2565.0	2528.5	2475.6	2437.9	2351.6	2247.7	2171.0	2068.3
22.5°	2622.8	2623.4	2624.6	2613.0	2588.7	2554.7	2501.2	2431.9	2339.5	2214.2	2099.9
25°	2542.5	2545.6	2561.4	2571.1	2577.8	2562.6	2534.6	2472.0	2392.3	2264.7	2146.1
27.5°	2345.5	2355.3	2372.9	2431.3	2455.0	2487.8	2499.4	2474.4	2415.5	2309.1	2174.1
30°	2024.5	2051.9	2068.9	2135.2	2228.2	2315.7	2357.1	2397.8	2392.3	2321.8	2185.0
32.5°	1657.3	1674.9	1724.2	1795.3	1868.9	1997.2	2140.7	2239.1	2294.5	2290.8	2194.2
35°	1322.9	1348.5	1390.4	1444.5	1546.1	1679.2	1841.5	1996.6	2135.2	2192.9	2158.3
37.5°	1073.7	1076.1	1115.6	1192.2	1255.5	1372.8	1519.3	1710.8	1892.6	2043.4	2076.8
40°	869.4	886.4	907.1	955.1	1029.9	1142.4	1239.6	1428.1	1616.6	1805.7	1940.6
42.5°	740.5	740.5	763.6	794.0	843.9	911.3	1027.5	1198.3	1367.9	1600.2	1752.2
45°	644.4	650.5	660.9	680.3	715.6	767.9	857.8	974.0	1147.2	1342.4	1571.0
47.5°	575.1	574.5	583.6	595.2	622.6	662.1	715.0	809.2	937.5	1147.8	1349.7
50°	510.7	513.1	519.8	529.5	547.8	575.7	609.2	680.3	788.5	955.1	1166.7
52.5°	460.8	460.2	465.7	471.8	485.8	501.6	531.4	584.3	659.0	791.6	967.3
55°	408.6	411.0	417.7	421.3	432.9	443.2	468.1	497.9	558.1	657.8	817.7
57.5°	363.6	366.6	370.3	373.9	381.8	392.1	412.8	431.0	474.8	546.6	674.2
60°	322.2	321.0	325.3	331.3	335.6	344.7	356.3	375.1	405.5	456.6	550.2
62.5°	280.9	281.5	282.1	285.7	293.6	301.6	311.9	325.9	344.1	381.8	448.1
65°	238.3	238.9	240.1	243.8	251.7	256.6	267.5	279.7	294.3	316.8	363.0
67.5°	200.6	203.1	203.1	206.1	209.1	214.0	221.9	231.0	243.2	259.6	289.4
70°	155.6	155.0	158.1	164.2	167.2	175.7	181.2	187.3	198.2	208.5	234.1
72.5°	125.2	125.2	125.2	127.7	128.3	130.1	133.8	146.5	155.0	165.4	179.4
75°	102.1	102.7	102.7	103.4	104.0	105.8	107.0	110.6	113.1	124.0	132.5
77.5°	81.5	82.1	82.1	82.7	83.3	83.9	86.3	86.3	88.2	90.6	94.2
80°	63.2	62.6	62.6	63.2	63.2	65.1	65.1	66.3	66.9	68.1	69.9
82.5°	45.0	44.4	45.0	44.4	45.0	45.6	46.8	46.2	47.4	48.6	49.2
85°	28.0	28.6	28.6	29.8	29.2	28.6	29.2	29.2	29.2	29.2	30.4
87.5°	12.2	13.4	13.4	12.8	13.4	13.4	12.2	13.4	13.4	13.4	14.0
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°	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1
2.5°	1462.8	1460.3	1451.2	1442.7	1429.9	1424.5	1417.2	1414.1	1404.4	1391.0	1384.9
5°	1530.9	1512.6	1495.0	1473.7	1456.1	1435.4	1423.9	1410.5	1389.8	1371.0	1357.6
7.5°	1603.2	1576.5	1543.6	1508.4	1476.8	1447.0	1421.4	1400.1	1373.4	1347.3	1326.6
10°	1682.9	1637.3	1584.4	1539.4	1493.8	1450.6	1418.4	1386.2	1351.5	1318.7	1293.8
12.5°	1768.6	1704.1	1640.3	1572.8	1504.7	1454.9	1406.8	1365.5	1326.6	1291.9	1262.1
15°	1857.3	1769.2	1687.7	1611.7	1516.9	1450.0	1397.1	1346.0	1297.4	1254.8	1225.7
17.5°	1920.6	1819.6	1716.9	1609.3	1527.8	1445.1	1379.5	1315.0	1270.0	1226.3	1186.8
20°	1978.9	1864.6	1742.4	1642.1	1528.4	1427.5	1355.8	1293.8	1231.1	1184.3	1150.9
22.5°	2003.9	1900.5	1777.1	1637.9	1524.2	1420.8	1328.4	1258.5	1202.6	1151.5	1107.7
25°	2008.7	1893.2	1766.8	1632.4	1507.8	1395.9	1302.3	1232.3	1159.4	1106.5	1072.5
27.5°	2030.0	1871.9	1747.9	1614.2	1487.7	1371.0	1272.5	1194.7	1126.6	1070.0	1026.2
30°	2035.5	1862.8	1707.8	1580.1	1450.0	1335.7	1236.0	1157.6	1083.4	1025.6	986.1
32.5°	2037.9	1850.7	1665.8	1526.0	1402.0	1294.4	1203.2	1118.1	1047.5	986.7	946.0
35°	2029.4	1833.6	1615.4	1464.6	1345.4	1239.6	1155.1	1079.7	1001.3	944.2	901.0
37.5°	1996.0	1806.9	1586.8	1392.9	1279.2	1179.5	1107.7	1033.5	961.2	899.2	854.8
40°	1932.7	1768.0	1533.3	1332.7	1203.8	1114.4	1047.5	986.7	913.8	854.2	810.4
42.5°	1831.8	1715.1	1484.0	1264.6	1129.0	1044.5	988.6	936.3	870.6	814.1	766.0
45°	1682.2	1640.9	1418.4	1195.3	1047.5	967.9	919.2	878.5	818.9	767.3	722.9
47.5°	1520.5	1529.6	1352.1	1124.7	973.4	897.4	854.8	818.9	773.9	718.6	677.9
50°	1333.9	1383.7	1259.1	1053.6	899.2	824.4	782.5	760.6	718.6	672.4	634.1
52.5°	1163.0	1242.1	1164.9	975.8	826.2	752.7	713.8	691.9	663.9	625.6	586.7
55°	986.1	1086.4	1030.5	891.9	752.1	677.9	645.1	628.0	604.9	575.1	539.9
57.5°	839.6	946.6	911.3	803.7	679.7	612.8	583.6	564.2	550.2	522.9	494.3
60°	696.1	795.2	781.2	702.2	608.0	544.1	521.6	505.8	494.3	474.2	446.2
62.5°	561.8	657.8	666.3	604.3	538.1	480.3	459.6	448.7	439.6	423.8	398.2
65°	445.6	530.1	547.8	500.4	464.5	420.7	400.6	394.0	387.3	369.0	349.6
67.5°	349.0	415.2	438.3	411.6	386.1	360.5	344.7	335.6	330.7	319.8	306.4
70°	266.9	324.0	343.5	331.9	314.9	305.2	293.0	287.0	282.1	268.1	260.8
72.5°	200.0	238.9	263.2	259.6	256.0	249.3	242.0	240.1	232.9	223.7	217.0
75°	146.5	169.0	190.9	198.8	197.6	200.0	192.1	189.1	184.8	178.1	172.7
77.5°	105.2	118.6	133.8	143.5	148.3	149.0	149.0	147.1	144.1	139.2	135.0
80°	73.0	76.0	90.0	99.1	104.0	107.6	107.6	108.2	105.2	103.4	100.3
82.5°	50.5	52.3	55.3	62.6	68.7	73.0	73.6	73.0	71.7	71.1	66.9
85°	31.6	31.0	31.0	32.8	37.7	41.9	42.6	43.8	43.2	42.6	38.3
87.5°	13.4	13.4	14.0	13.4	15.2	15.8	17.0	20.1	19.5	16.4	15.2
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°	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1	1408.1
2.5°	1381.3	1373.4	1366.1	1358.2	1348.5	1339.4	1338.1	1336.9	1340.0	1333.9	1331.4
5°	1347.3	1332.1	1320.5	1305.9	1295.6	1282.2	1274.9	1273.1	1272.5	1268.8	1264.0
7.5°	1310.2	1293.8	1277.3	1260.9	1243.9	1229.9	1222.0	1217.8	1214.1	1208.0	1203.2
10°	1275.5	1254.8	1237.2	1214.7	1196.5	1178.2	1170.9	1164.9	1161.2	1152.7	1146.0
12.5°	1236.6	1210.5	1191.0	1166.7	1150.3	1134.5	1122.9	1111.4	1102.9	1090.1	1084.6
15°	1202.6	1175.2	1142.4	1127.8	1104.7	1081.0	1068.2	1068.2	1050.6	1040.2	1033.5
17.5°	1157.0	1133.2	1110.1	1080.4	1047.5	1033.5	1019.0	1006.2	994.0	991.0	978.8
20°	1116.8	1088.9	1065.2	1032.9	1003.1	986.7	969.7	955.7	946.6	938.1	931.4
22.5°	1077.3	1049.4	1012.9	981.3	961.2	939.3	921.1	908.9	901.0	888.2	882.2
25°	1036.0	1002.5	969.7	938.7	913.8	894.9	876.1	869.4	855.4	848.7	840.2
27.5°	994.6	954.5	923.5	896.8	868.8	850.5	837.8	825.6	813.5	809.8	804.9
30°	948.4	911.3	881.6	855.4	828.7	812.9	797.7	786.7	776.4	768.5	763.0
32.5°	902.2	871.2	842.6	812.2	787.9	770.9	758.1	748.4	743.5	730.2	725.3
35°	859.7	828.1	797.7	769.1	749.6	733.2	721.7	712.5	702.2	693.7	688.8
37.5°	815.9	787.3	756.3	732.0	710.1	696.7	684.0	671.8	663.9	659.0	653.0
40°	773.3	742.9	719.2	692.5	673.0	657.8	644.4	635.3	625.6	621.3	613.4
42.5°	733.2	704.0	676.7	652.3	634.7	620.1	607.4	597.0	589.1	581.2	577.0
45°	687.0	661.5	636.5	612.2	595.8	580.0	566.0	556.9	546.0	539.3	536.8
47.5°	648.1	621.3	594.6	572.1	555.1	538.1	526.5	515.6	506.4	499.7	496.1
50°	601.9	577.0	555.1	532.6	516.2	497.9	483.9	473.6	463.3	458.4	452.3
52.5°	562.4	538.1	511.3	491.2	472.4	456.6	443.8	435.3	426.2	418.9	414.6
55°	513.1	489.4	468.1	446.9	428.0	415.2	404.9	390.3	382.4	375.1	363.6
57.5°	470.0	447.5	425.0	404.3	386.7	371.5	358.7	349.0	338.6	333.2	325.3
60°	424.4	400.6	380.0	364.2	344.7	328.3	319.8	308.2	299.7	291.2	288.8
62.5°	379.4	357.5	336.8	320.4	302.8	290.0	279.1	273.6	265.1	258.4	256.0
65°	332.6	314.3	294.9	276.6	265.7	251.1	245.0	235.9	231.0	228.0	227.4
67.5°	286.4	269.9	252.3	238.3	228.0	218.3	211.0	207.3	202.5	198.8	195.8
70°	244.4	228.6	213.4	201.8	193.9	186.6	181.8	175.1	170.2	165.4	158.7
72.5°	203.1	190.3	177.5	168.4	160.5	156.2	149.6	139.2	134.4	133.1	132.5
75°	164.8	150.8	141.7	136.8	129.5	119.2	114.9	113.7	113.1	111.9	111.9
77.5°	127.1	118.6	112.5	102.1	98.5	97.9	94.8	94.2	93.0	93.6	93.6
80°	92.4	87.5	80.3	77.2	76.0	76.6	75.4	76.0	74.8	75.4	74.2
82.5°	61.4	57.1	58.4	56.5	56.5	57.8	57.1	55.3	55.3	54.7	54.7
85°	36.5	35.9	37.1	37.1	36.5	34.7	35.9	35.3	33.4	34.0	34.0
87.5°	15.8	15.8	15.8	15.2	15.8	15.2	15.2	15.2	13.4	13.4	13.4
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: P243437

CATALOG NUMBER: S123RDRP-H1000D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1408.1	1408.1	1408.1	1408.1
2.5°	1332.7	1331.4	1329.6	1327.8
5°	1264.0	1258.5	1257.9	1256.1
7.5°	1199.5	1197.1	1192.8	1197.7
10°	1140.5	1142.4	1138.1	1133.2
12.5°	1079.1	1075.5	1068.8	1072.5
15°	1025.0	1019.0	1015.3	1006.8
17.5°	968.5	963.6	963.6	958.2
20°	919.2	914.4	915.6	911.9
22.5°	877.9	874.3	868.8	869.4
25°	839.0	833.5	827.4	828.1
27.5°	795.8	791.0	789.7	785.5
30°	757.5	753.3	752.7	752.7
32.5°	720.4	718.6	715.6	713.8
35°	688.2	685.8	680.9	682.1
37.5°	648.1	645.7	645.1	644.4
40°	610.4	608.6	603.7	604.3
42.5°	572.7	569.7	566.6	565.4
45°	532.0	531.4	526.5	527.7
47.5°	493.1	491.8	489.4	486.4
50°	449.9	449.3	447.5	443.8
52.5°	407.9	406.1	402.5	398.8
55°	360.5	355.1	355.7	352.6
57.5°	321.6	319.2	314.3	312.5
60°	283.9	281.5	280.9	278.4
62.5°	252.3	249.9	248.1	248.1
65°	223.7	220.7	220.1	220.1
67.5°	192.1	189.1	188.5	187.3
70°	152.6	152.0	150.8	150.8
72.5°	131.3	130.7	131.3	128.9
75°	111.9	111.3	111.3	111.9
77.5°	93.0	93.0	92.4	92.4
80°	73.6	74.2	73.6	75.4
82.5°	55.3	54.1	54.7	53.5
85°	34.0	34.0	32.8	32.8
87.5°	13.4	13.4	13.4	13.4
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243437
 CATALOG NUMBER: S123RDRP-H1000D840-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	18.24	19.75	18.61	20.06	20.37	20.94	22.45	21.31	22.76	23.07
	3H	19.43	20.78	19.81	21.11	21.47	22.37	23.72	22.75	24.04	24.41
	4H	19.78	21.05	20.18	21.39	21.77	22.87	24.13	23.27	24.48	24.86
	6H	20.06	21.22	20.47	21.59	21.98	23.22	24.38	23.63	24.75	25.14
	8H	20.15	21.26	20.58	21.65	22.05	23.32	24.43	23.75	24.82	25.22
	12H	20.21	21.27	20.64	21.65	22.08	23.38	24.44	23.81	24.82	25.25
4H	2H	19.19	20.46	19.59	20.80	21.18	21.22	22.48	21.62	22.83	23.21
	3H	20.46	21.51	20.88	21.91	22.31	22.94	23.98	23.35	24.38	24.79
	4H	20.87	21.81	21.30	22.23	22.66	23.56	24.49	23.99	24.91	25.35
	6H	21.22	22.03	21.68	22.48	22.94	24.01	24.83	24.47	25.27	25.73
	8H	21.33	22.09	21.80	22.54	23.01	24.15	24.91	24.61	25.36	25.82
	12H	21.42	22.10	21.91	22.58	23.05	24.25	24.92	24.73	25.40	25.88
8H	4H	21.23	21.99	21.70	22.44	22.91	23.61	24.38	24.08	24.82	25.29
	6H	21.65	22.28	22.15	22.77	23.25	24.14	24.77	24.64	25.26	25.74
	8H	21.82	22.38	22.33	22.89	23.38	24.33	24.90	24.85	25.41	25.90
	12H	21.96	22.46	22.47	22.95	23.52	24.49	24.98	25.00	25.48	26.04
12H	4H	21.26	21.94	21.74	22.42	22.89	23.60	24.28	24.09	24.76	25.23
	6H	21.70	22.26	22.21	22.77	23.26	24.13	24.70	24.65	25.21	25.70
	8H	21.91	22.41	22.42	22.90	23.46	24.36	24.86	24.87	25.35	25.92