

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: P243453

Luminaire Tested: S123RDRP-H1165D940-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243453
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-H1165D940-X4F0-XX-UDD-A-W
Description: DEFINE 3 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

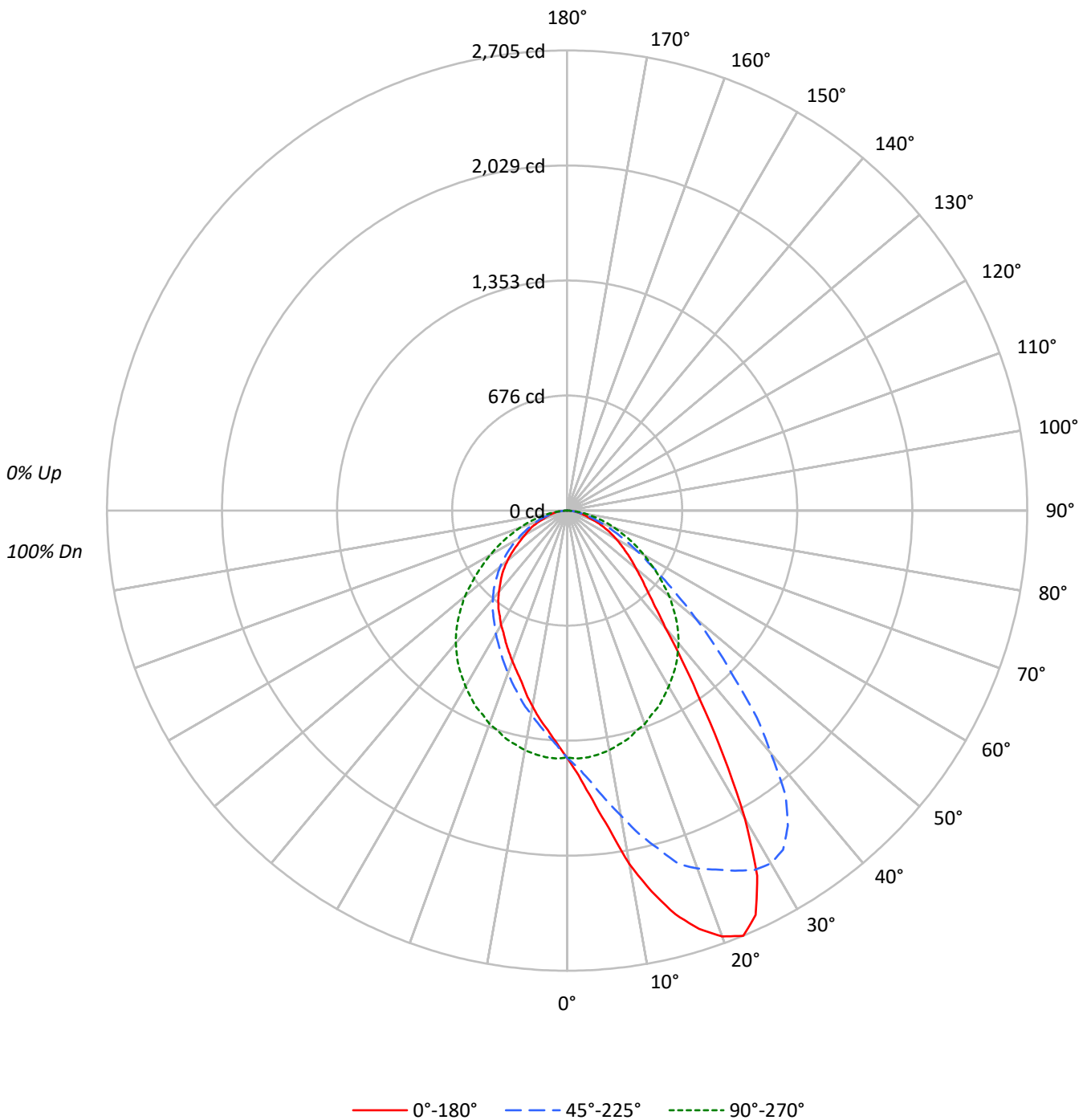
Lumens per Lamp: N/A
Luminaire Lumens: 3784.5 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.22 / 1.4
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')
CIE Type: Direct

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

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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°	17605	17605	17605	17605	17605
5°	20755	19480	17703	16093	15764
10°	25981	22400	17598	14959	14388
15°	30834	25773	17424	13992	13032
20°	34363	28888	17214	13129	12134
25°	35075	31242	17001	12346	11423
30°	29229	33521	16712	11736	10867
35°	20192	33471	16481	11191	10411
40°	14190	29472	16105	10736	9864
45°	11396	23737	15534	10256	9330
50°	9934	18578	14794	9685	8633
55°	8905	14339	13690	9051	7686
60°	8058	11418	12650	8208	6962
65°	7050	9370	11656	7428	6511
70°	5688	7623	10490	6822	5511
75°	4936	5990	9132	5756	5405
80°	4551	4900	7790	5514	5431
85°	4005	4186	6286	4965	4715

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 29747 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.4	3.8
10°-20°	448.6	11.9
20°-30°	718.7	19.0
30°-40°	780.3	20.6
40°-50°	668.5	17.7
50°-60°	506.7	13.4
60°-70°	323.8	8.6
70°-80°	154.8	4.1
80°-90°	40.6	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°	1309.7	34.6
0°-40°	2090.0	55.2
0°-60°	3265.2	86.3
0°-90°	3784.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3784.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1452	1452	1452	1452	1452	
5°	1706	1601	1455	1323	1296	175
15°	2457	2054	1388	1115	1038	697
25°	2623	2336	1271	923	854	1164
35°	1365	2262	1114	756	704	876
45°	665	1385	906	598	544	525
55°	421	678	648	428	364	380
65°	246	327	406	259	227	244
75°	105	128	195	123	115	114
85°	29	30	45	36	34	33
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°	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4
2.5°	1556.5	1558.4	1555.3	1554.6	1554.0	1544.0	1540.8	1535.8	1518.3	1513.9	1510.7
5°	1705.8	1700.8	1706.4	1695.7	1683.8	1676.9	1665.6	1640.6	1618.6	1601.0	1589.8
7.5°	1882.6	1884.5	1878.9	1868.8	1845.0	1835.0	1804.2	1774.1	1745.3	1708.9	1681.9
10°	2110.9	2095.9	2099.0	2067.6	2042.5	2012.4	1970.4	1922.1	1871.3	1819.9	1781.7
12.5°	2292.8	2303.4	2295.9	2280.9	2232.6	2203.1	2164.8	2094.6	2014.3	1945.3	1887.0
15°	2457.1	2442.7	2444.5	2408.2	2390.6	2363.6	2300.3	2230.7	2178.6	2053.8	1984.9
17.5°	2577.5	2576.2	2574.3	2543.6	2522.3	2465.9	2401.3	2329.8	2264.5	2178.0	2091.5
20°	2664.0	2673.4	2670.9	2645.8	2608.2	2553.7	2514.8	2425.7	2318.5	2239.5	2133.5
22.5°	2705.4	2706.0	2707.3	2695.4	2670.3	2635.2	2580.0	2508.5	2413.2	2284.0	2166.1
25°	2622.6	2625.8	2642.1	2652.1	2659.0	2643.3	2614.5	2549.9	2467.7	2336.0	2213.8
27.5°	2419.4	2429.5	2447.7	2507.9	2532.3	2566.2	2578.1	2552.4	2491.6	2381.8	2242.6
30°	2088.3	2116.5	2134.1	2202.5	2298.4	2388.7	2431.4	2473.4	2467.7	2395.0	2253.9
32.5°	1709.5	1727.7	1778.5	1851.9	1927.8	2060.1	2208.1	2309.7	2366.8	2363.0	2263.3
35°	1364.6	1391.0	1434.2	1490.0	1594.8	1732.1	1899.6	2059.5	2202.5	2262.0	2226.3
37.5°	1107.5	1110.0	1150.8	1229.8	1295.0	1416.0	1567.2	1764.7	1952.2	2107.8	2142.3
40°	896.8	914.3	935.7	985.2	1062.3	1178.4	1278.7	1473.1	1667.5	1862.6	2001.8
42.5°	763.8	763.8	787.7	819.0	870.4	940.1	1059.8	1236.1	1411.0	1650.6	1807.4
45°	664.8	671.0	681.7	701.8	738.1	792.1	884.9	1004.7	1183.4	1384.7	1620.5
47.5°	593.3	592.6	602.0	614.0	642.2	682.9	737.5	834.7	967.0	1184.0	1392.2
50°	526.8	529.3	536.2	546.2	565.0	593.9	628.4	701.8	813.4	985.2	1203.5
52.5°	475.4	474.7	480.4	486.6	501.1	517.4	548.1	602.7	679.8	816.5	997.8
55°	421.4	423.9	430.8	434.6	446.5	457.2	482.9	513.6	575.7	678.5	843.5
57.5°	375.0	378.2	381.9	385.7	393.8	404.5	425.8	444.6	489.8	563.8	695.5
60°	332.4	331.1	335.5	341.8	346.2	355.6	367.5	386.9	418.3	471.0	567.5
62.5°	289.7	290.4	291.0	294.7	302.9	311.1	321.7	336.1	355.0	393.8	462.2
65°	245.8	246.5	247.7	251.5	259.6	264.6	275.9	288.5	303.5	326.7	374.4
67.5°	207.0	209.5	209.5	212.6	215.7	220.7	228.9	238.3	250.8	267.8	298.5
70°	160.5	159.9	163.1	169.3	172.5	181.2	186.9	193.2	204.4	215.1	241.4
72.5°	129.2	129.2	129.2	131.7	132.3	134.2	138.0	151.1	159.9	170.6	185.0
75°	105.4	106.0	106.0	106.6	107.2	109.1	110.4	114.1	116.6	127.9	136.7
77.5°	84.0	84.7	84.7	85.3	85.9	86.5	89.1	89.1	90.9	93.4	97.2
80°	65.2	64.6	64.6	65.2	65.2	67.1	67.1	68.4	69.0	70.2	72.1
82.5°	46.4	45.8	46.4	45.8	46.4	47.0	48.3	47.7	48.9	50.2	50.8
85°	28.8	29.5	29.5	30.7	30.1	29.5	30.1	30.1	30.1	30.1	31.4
87.5°	12.5	13.8	13.8	13.2	13.8	13.8	12.5	13.8	13.8	13.8	14.4
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°	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4
2.5°	1508.9	1506.4	1496.9	1488.2	1475.0	1469.4	1461.8	1458.7	1448.7	1434.9	1428.6
5°	1579.1	1560.3	1542.1	1520.2	1502.0	1480.6	1468.7	1454.9	1433.6	1414.2	1400.4
7.5°	1653.7	1626.1	1592.3	1555.9	1523.3	1492.6	1466.2	1444.3	1416.7	1389.7	1368.4
10°	1735.9	1688.8	1634.3	1587.9	1540.8	1496.3	1463.1	1429.8	1394.1	1360.2	1334.5
12.5°	1824.3	1757.8	1692.0	1622.4	1552.1	1500.7	1451.2	1408.5	1368.4	1332.6	1301.9
15°	1915.9	1824.9	1740.9	1662.5	1564.7	1495.7	1441.1	1388.5	1338.3	1294.4	1264.3
17.5°	1981.1	1877.0	1771.0	1660.0	1576.0	1490.7	1422.9	1356.5	1310.1	1264.9	1224.1
20°	2041.3	1923.4	1797.3	1693.9	1576.6	1472.5	1398.5	1334.5	1269.9	1221.6	1187.1
22.5°	2067.0	1960.4	1833.1	1689.5	1572.2	1465.6	1370.3	1298.1	1240.5	1187.8	1142.6
25°	2072.0	1952.9	1822.4	1683.8	1555.3	1439.9	1343.3	1271.2	1195.9	1141.4	1106.2
27.5°	2094.0	1930.9	1803.0	1665.0	1534.6	1414.2	1312.6	1232.3	1162.1	1103.7	1058.6
30°	2099.6	1921.5	1761.6	1629.9	1495.7	1377.8	1274.9	1194.0	1117.5	1058.0	1017.2
32.5°	2102.1	1909.0	1718.3	1574.1	1446.1	1335.1	1241.1	1153.3	1080.5	1017.8	975.8
35°	2093.3	1891.4	1666.3	1510.7	1387.8	1278.7	1191.5	1113.8	1032.9	973.9	929.4
37.5°	2058.9	1863.8	1636.8	1436.7	1319.5	1216.6	1142.6	1066.1	991.5	927.5	881.7
40°	1993.6	1823.7	1581.6	1374.7	1241.7	1149.5	1080.5	1017.8	942.6	881.1	836.0
42.5°	1889.5	1769.1	1530.8	1304.4	1164.6	1077.4	1019.7	965.8	898.0	839.7	790.2
45°	1735.3	1692.6	1463.1	1232.9	1080.5	998.4	948.2	906.2	844.7	791.4	745.7
47.5°	1568.4	1577.8	1394.7	1160.2	1004.0	925.6	881.7	844.7	798.3	741.3	699.2
50°	1375.9	1427.3	1298.8	1086.8	927.5	850.4	807.1	784.5	741.3	693.6	654.1
52.5°	1199.7	1281.2	1201.6	1006.5	852.3	776.4	736.2	713.7	684.8	645.3	605.2
55°	1017.2	1120.7	1063.0	920.0	775.8	699.2	665.4	647.8	624.0	593.3	556.9
57.5°	866.1	976.4	940.1	829.1	701.1	632.1	602.0	582.0	567.5	539.3	509.9
60°	718.1	820.3	805.9	724.3	627.1	561.3	538.1	521.8	509.9	489.2	460.3
62.5°	579.5	678.5	687.3	623.4	555.0	495.4	474.1	462.8	453.4	437.1	410.8
65°	459.7	546.9	565.0	516.1	479.1	434.0	413.3	406.4	399.5	380.7	360.6
67.5°	360.0	428.3	452.2	424.6	398.2	371.9	355.6	346.2	341.2	329.9	316.1
70°	275.3	334.3	354.3	342.4	324.9	314.8	302.3	296.0	291.0	276.6	269.0
72.5°	206.3	246.5	271.5	267.8	264.0	257.1	249.6	247.7	240.2	230.8	223.9
75°	151.1	174.3	196.9	205.1	203.8	206.3	198.2	195.0	190.6	183.7	178.1
77.5°	108.5	122.3	138.0	148.0	153.0	153.6	153.6	151.8	148.6	143.6	139.2
80°	75.3	78.4	92.8	102.2	107.2	111.0	111.0	111.6	108.5	106.6	103.5
82.5°	52.1	53.9	57.1	64.6	70.9	75.3	75.9	75.3	74.0	73.4	69.0
85°	32.6	32.0	32.0	33.9	38.9	43.3	43.9	45.2	44.5	43.9	39.5
87.5°	13.8	13.8	14.4	13.8	15.7	16.3	17.6	20.7	20.1	16.9	15.7
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°	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4
2.5°	1424.8	1416.7	1409.1	1401.0	1391.0	1381.6	1380.3	1379.0	1382.2	1375.9	1373.4
5°	1389.7	1374.0	1362.1	1347.1	1336.4	1322.6	1315.1	1313.2	1312.6	1308.8	1303.8
7.5°	1351.5	1334.5	1317.6	1300.7	1283.1	1268.7	1260.5	1256.1	1252.4	1246.1	1241.1
10°	1315.7	1294.4	1276.2	1253.0	1234.2	1215.4	1207.8	1201.6	1197.8	1189.0	1182.1
12.5°	1275.6	1248.6	1228.5	1203.5	1186.5	1170.2	1158.3	1146.4	1137.6	1124.4	1118.8
15°	1240.5	1212.2	1178.4	1163.3	1139.5	1115.0	1101.9	1101.9	1083.7	1073.0	1066.1
17.5°	1193.4	1169.0	1145.1	1114.4	1080.5	1066.1	1051.1	1037.9	1025.3	1022.2	1009.7
20°	1152.0	1123.2	1098.7	1065.5	1034.8	1017.8	1000.3	985.8	976.4	967.7	960.8
22.5°	1111.3	1082.4	1044.8	1012.2	991.5	968.9	950.1	937.6	929.4	916.2	910.0
25°	1068.6	1034.1	1000.3	968.3	942.6	923.1	903.7	896.8	882.4	875.5	866.7
27.5°	1026.0	984.6	952.6	925.0	896.2	877.3	864.2	851.6	839.1	835.3	830.3
30°	978.3	940.1	909.3	882.4	854.8	838.5	822.8	811.5	800.8	792.7	787.0
32.5°	930.7	898.7	869.2	837.8	812.8	795.2	782.0	772.0	767.0	753.2	748.2
35°	886.8	854.1	822.8	793.3	773.2	756.3	744.4	735.0	724.3	715.5	710.5
37.5°	841.6	812.1	780.1	755.1	732.5	718.7	705.5	693.0	684.8	679.8	673.5
40°	797.7	766.3	741.9	714.3	694.2	678.5	664.8	655.3	645.3	640.9	632.8
42.5°	756.3	726.2	698.0	672.9	654.7	639.7	626.5	615.8	607.7	599.5	595.1
45°	708.7	682.3	656.6	631.5	614.6	598.3	583.9	574.4	563.2	556.3	553.8
47.5°	668.5	640.9	613.3	590.1	572.6	555.0	543.1	531.8	522.4	515.5	511.7
50°	620.9	595.1	572.6	549.4	532.4	513.6	499.2	488.5	477.9	472.9	466.6
52.5°	580.1	555.0	527.4	506.7	487.3	471.0	457.8	449.0	439.6	432.1	427.7
55°	529.3	504.8	482.9	460.9	441.5	428.3	417.7	402.6	394.5	386.9	375.0
57.5°	484.8	461.6	438.4	417.0	398.9	383.2	370.0	360.0	349.3	343.7	335.5
60°	437.7	413.3	392.0	375.6	355.6	338.6	329.9	318.0	309.2	300.4	297.9
62.5°	391.3	368.7	347.4	330.5	312.3	299.1	287.9	282.2	273.4	266.5	264.0
65°	343.0	324.2	304.2	285.3	274.1	259.0	252.7	243.3	238.3	235.2	234.5
67.5°	295.4	278.4	260.3	245.8	235.2	225.1	217.6	213.8	208.8	205.1	201.9
70°	252.1	235.8	220.1	208.2	200.1	192.5	187.5	180.6	175.6	170.6	163.7
72.5°	209.5	196.3	183.1	173.7	165.6	161.2	154.3	143.6	138.6	137.3	136.7
75°	170.0	155.5	146.1	141.1	133.6	122.9	118.5	117.3	116.6	115.4	115.4
77.5°	131.1	122.3	116.0	105.4	101.6	101.0	97.8	97.2	96.0	96.6	96.6
80°	95.3	90.3	82.8	79.6	78.4	79.0	77.8	78.4	77.1	77.8	76.5
82.5°	63.3	58.9	60.2	58.3	58.3	59.6	58.9	57.1	57.1	56.4	56.4
85°	37.6	37.0	38.3	38.3	37.6	35.7	37.0	36.4	34.5	35.1	35.1
87.5°	16.3	16.3	16.3	15.7	16.3	15.7	15.7	15.7	13.8	13.8	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



TEST NUMBER: P243453

CATALOG NUMBER: S123RDRP-H1165D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1452.4	1452.4	1452.4	1452.4
2.5°	1374.7	1373.4	1371.5	1369.6
5°	1303.8	1298.1	1297.5	1295.6
7.5°	1237.3	1234.8	1230.4	1235.4
10°	1176.5	1178.4	1174.0	1169.0
12.5°	1113.1	1109.4	1102.5	1106.2
15°	1057.3	1051.1	1047.3	1038.5
17.5°	999.0	994.0	994.0	988.3
20°	948.2	943.2	944.4	940.7
22.5°	905.6	901.8	896.2	896.8
25°	865.4	859.8	853.5	854.1
27.5°	820.9	815.9	814.6	810.2
30°	781.4	777.0	776.4	776.4
32.5°	743.1	741.3	738.1	736.2
35°	709.9	707.4	702.4	703.6
37.5°	668.5	666.0	665.4	664.8
40°	629.6	627.8	622.7	623.4
42.5°	590.8	587.6	584.5	583.2
45°	548.7	548.1	543.1	544.3
47.5°	508.6	507.3	504.8	501.7
50°	464.1	463.4	461.6	457.8
52.5°	420.8	418.9	415.2	411.4
55°	371.9	366.2	366.9	363.7
57.5°	331.7	329.2	324.2	322.3
60°	292.9	290.4	289.7	287.2
62.5°	260.3	257.7	255.9	255.9
65°	230.8	227.6	227.0	227.0
67.5°	198.2	195.0	194.4	193.2
70°	157.4	156.8	155.5	155.5
72.5°	135.5	134.8	135.5	133.0
75°	115.4	114.8	114.8	115.4
77.5°	96.0	96.0	95.3	95.3
80°	75.9	76.5	75.9	77.8
82.5°	57.1	55.8	56.4	55.2
85°	35.1	35.1	33.9	33.9
87.5°	13.8	13.8	13.8	13.8
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243453
 CATALOG NUMBER: S123RDRP-H1165D940-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	18.35	19.85	18.72	20.17	20.48	21.05	22.55	21.42	22.87	23.18
	3H	19.54	20.89	19.92	21.21	21.58	22.48	23.82	22.86	24.15	24.51
	4H	19.89	21.15	20.29	21.50	21.88	22.98	24.24	23.38	24.59	24.97
	6H	20.17	21.33	20.58	21.70	22.09	23.33	24.49	23.74	24.86	25.25
	8H	20.26	21.36	20.68	21.75	22.16	23.43	24.53	23.85	24.92	25.33
	12H	20.32	21.38	20.75	21.76	22.19	23.49	24.55	23.92	24.93	25.36
4H	2H	19.30	20.56	19.70	20.91	21.29	21.33	22.59	21.73	22.94	23.32
	3H	20.57	21.62	20.98	22.02	22.42	23.05	24.09	23.46	24.49	24.89
	4H	20.98	21.92	21.41	22.33	22.77	23.66	24.60	24.10	25.02	25.46
	6H	21.33	22.14	21.78	22.58	23.04	24.12	24.93	24.58	25.38	25.84
	8H	21.44	22.20	21.90	22.65	23.11	24.26	25.02	24.72	25.46	25.93
	12H	21.53	22.21	22.01	22.69	23.16	24.35	25.03	24.84	25.51	25.98
8H	4H	21.34	22.10	21.80	22.55	23.01	23.72	24.48	24.19	24.93	25.40
	6H	21.76	22.39	22.26	22.88	23.36	24.25	24.88	24.75	25.37	25.85
	8H	21.92	22.49	22.44	23.00	23.49	24.44	25.00	24.96	25.52	26.00
	12H	22.07	22.57	22.58	23.06	23.63	24.59	25.09	25.10	25.58	26.15
12H	4H	21.37	22.05	21.85	22.53	23.00	23.71	24.39	24.19	24.87	25.34
	6H	21.80	22.37	22.32	22.88	23.37	24.24	24.81	24.76	25.32	25.81
	8H	22.02	22.51	22.53	23.01	23.57	24.47	24.97	24.98	25.46	26.03