

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: P242576

Luminaire Tested: S123RDRP-S775D840-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242576
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-S775D840-X4F0-XX-UDD-A-W
Description: DEFINE 3 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

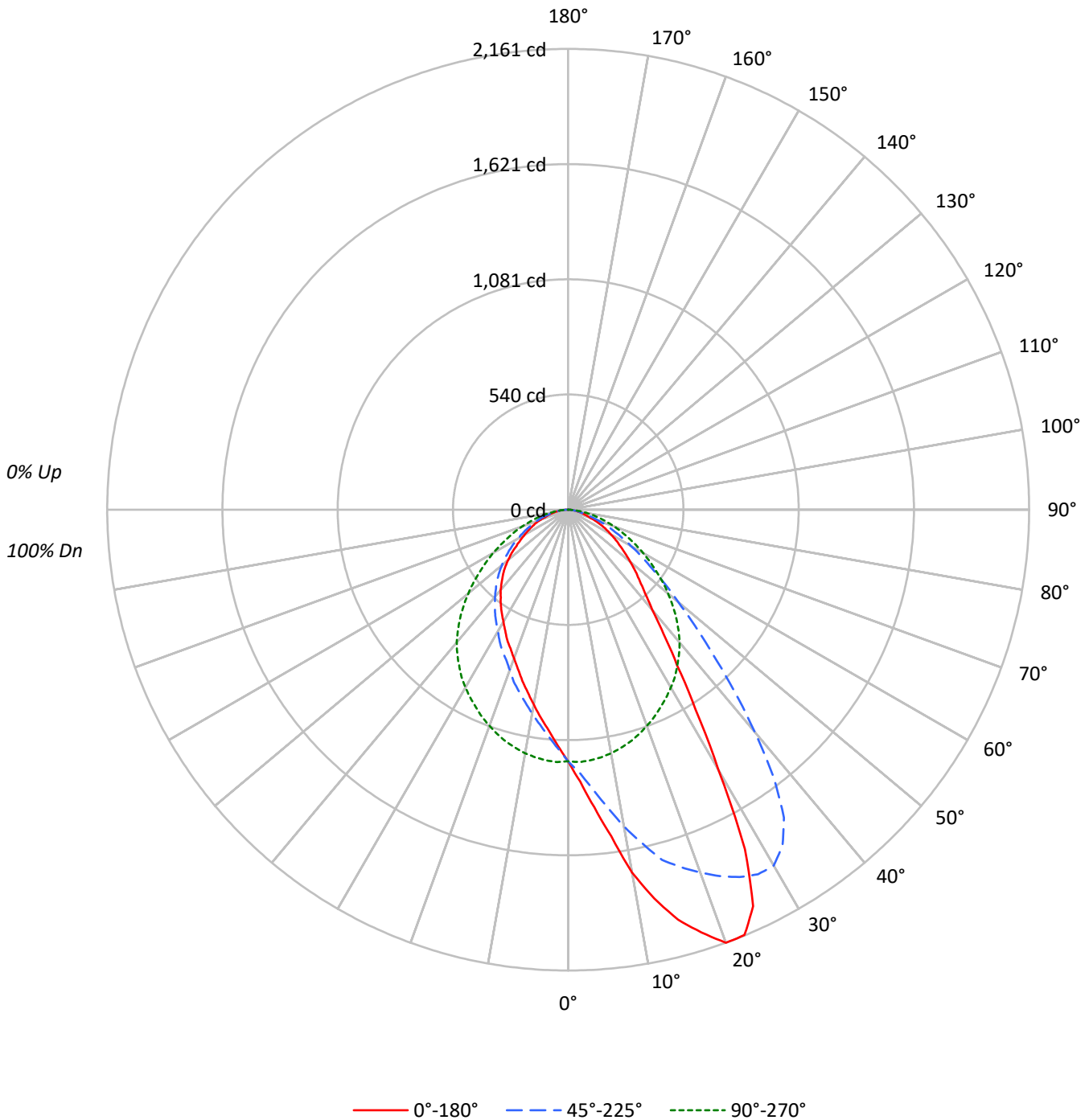
Lumens per Lamp: N/A
Luminaire Lumens: 2937.1 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.35
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')
CIE Type: Direct

Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (A_{in}): 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°	14297	14297	14297	14297	14297
5°	17043	15987	14359	12963	12644
10°	21280	18571	14276	11945	11423
15°	24978	21328	14130	11108	10417
20°	27878	23356	13913	10323	9562
25°	27432	25419	13682	9779	9036
30°	19718	26970	13470	9215	8494
35°	13165	26092	13195	8831	8144
40°	9700	21508	12864	8445	7782
45°	8136	16412	12282	8084	7426
50°	7179	12655	11522	7647	6932
55°	6295	10095	10649	7191	6253
60°	5607	8238	9818	6611	5728
65°	4925	6749	8920	6098	5329
70°	3867	5422	8123	5600	4866
75°	3405	3995	7095	5063	4444
80°	2960	3420	6024	4439	4370
85°	2392	2601	4840	4492	4631

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 60°
 Vertical Angle: 45°
 Luminance: 23094 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.8	3.9
10°-20°	362.6	12.3
20°-30°	571.1	19.4
30°-40°	593.9	20.2
40°-50°	508.1	17.3
50°-60°	387.3	13.2
60°-70°	248.1	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°	1049.6	35.7
0°-40°	1643.5	56.0
0°-60°	2538.8	86.4
0°-90°	2937.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2937.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1180	1180	1180	1180	1180	
5°	1401	1314	1180	1065	1039	144
15°	1990	1700	1126	885	830	565
25°	2051	1901	1023	731	676	891
35°	890	1763	892	597	550	579
45°	475	957	716	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°	1179.5	1179.5	1179.5	1179.5	1179.5	1179.5	1179.5	1179.5	1179.5	1179.5	1179.5
2.5°	1275.5	1277.5	1270.9	1269.9	1262.4	1260.3	1260.3	1249.7	1243.2	1234.6	1229.5
5°	1400.7	1408.8	1404.8	1395.7	1380.5	1377.0	1367.4	1352.2	1335.1	1313.9	1303.8
7.5°	1544.1	1560.8	1557.7	1543.6	1527.5	1517.4	1490.6	1468.9	1436.1	1406.3	1383.0
10°	1728.9	1717.3	1708.2	1694.6	1679.9	1656.2	1627.9	1589.1	1544.1	1508.8	1469.4
12.5°	1867.3	1867.8	1855.7	1841.5	1819.3	1797.1	1760.7	1711.3	1657.2	1602.2	1555.7
15°	1990.5	1993.5	1985.9	1971.3	1942.0	1902.1	1849.6	1829.9	1755.2	1699.6	1644.1
17.5°	2078.3	2078.8	2077.3	2057.6	2025.8	1998.6	1949.6	1903.6	1832.9	1757.7	1683.5
20°	2161.2	2156.1	2157.1	2134.4	2112.2	2079.4	2031.9	1956.7	1901.1	1810.7	1733.5
22.5°	2159.1	2159.1	2163.7	2159.6	2145.0	2121.8	2086.9	2026.3	1951.6	1860.2	1770.8
25°	2051.1	2047.0	2070.8	2077.3	2103.1	2107.6	2096.5	2061.7	1994.5	1900.6	1793.1
27.5°	1793.6	1778.9	1828.4	1877.4	1942.5	1983.9	2026.3	2035.9	2004.1	1927.4	1814.8
30°	1408.8	1456.3	1478.5	1558.3	1647.1	1753.2	1846.1	1934.4	1956.1	1926.9	1838.5
32.5°	1109.9	1149.8	1167.4	1233.1	1314.4	1443.1	1594.1	1728.4	1833.4	1868.8	1824.4
35°	889.7	890.2	932.6	962.9	1039.7	1167.4	1302.8	1470.4	1637.0	1763.3	1776.4
37.5°	734.2	736.2	763.5	793.8	855.4	927.1	1052.8	1194.2	1394.7	1583.0	1681.0
40°	613.0	617.5	636.7	666.5	707.9	758.9	851.8	983.1	1143.7	1359.3	1535.5
42.5°	535.2	543.3	550.9	572.1	593.8	640.8	711.5	805.4	947.8	1148.7	1358.8
45°	474.6	478.7	486.3	496.9	520.1	553.4	603.9	672.1	793.3	957.4	1160.9
47.5°	428.2	425.7	434.3	443.3	459.0	483.2	518.6	577.7	668.5	805.9	982.1
50°	380.7	380.2	385.8	392.3	407.0	423.6	451.4	493.3	562.0	671.1	829.1
52.5°	336.3	338.8	342.4	350.9	360.5	373.2	397.4	424.7	481.2	571.6	696.8
55°	297.9	299.4	305.0	309.5	317.1	330.7	346.4	371.6	412.0	477.7	586.2
57.5°	264.6	264.1	269.6	270.1	279.7	291.4	304.0	323.7	354.5	406.5	482.2
60°	231.3	229.7	234.3	237.8	242.4	251.5	261.6	280.7	304.0	339.8	402.4
62.5°	201.0	200.5	203.5	207.0	210.6	218.6	226.7	240.4	257.5	286.3	332.8
65°	171.7	173.2	174.7	176.2	178.2	183.3	191.4	201.5	214.1	235.3	271.2
67.5°	141.4	143.4	143.9	147.4	151.5	154.0	158.6	168.1	177.7	196.9	218.1
70°	109.1	108.6	109.1	110.6	116.1	121.7	128.3	134.8	140.4	153.0	170.2
72.5°	89.9	88.9	90.4	90.4	92.4	92.9	96.4	102.5	110.1	117.7	128.8
75°	72.7	72.7	72.7	72.7	74.7	75.7	77.3	78.8	81.3	85.3	94.4
77.5°	56.6	56.6	57.6	58.1	58.6	59.1	60.1	61.6	62.6	64.6	69.2
80°	42.4	42.9	42.4	42.9	42.9	43.9	44.4	45.9	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°	5.0	6.1	5.0	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°	1179.5	1179.5	1179.5	1179.5	1179.5	1179.5	1179.5	1179.5	1179.5	1179.5	1179.5
2.5°	1227.5	1226.0	1218.9	1210.9	1200.2	1193.2	1187.6	1184.6	1175.5	1164.4	1156.8
5°	1293.2	1278.0	1261.9	1242.2	1224.0	1205.3	1193.7	1180.1	1163.4	1144.7	1131.6
7.5°	1358.3	1332.0	1303.3	1273.5	1243.2	1216.4	1191.7	1171.5	1146.2	1120.5	1102.8
10°	1435.6	1392.1	1347.2	1301.2	1259.3	1219.9	1189.6	1159.9	1128.0	1097.2	1074.0
12.5°	1505.7	1445.1	1391.6	1332.5	1276.0	1227.0	1180.1	1143.7	1103.8	1070.5	1043.2
15°	1562.8	1504.2	1441.6	1355.8	1284.6	1225.0	1172.0	1126.0	1079.6	1039.2	1013.4
17.5°	1622.4	1533.5	1451.2	1384.6	1291.6	1219.4	1157.3	1103.8	1053.3	1011.9	979.6
20°	1656.7	1571.4	1480.0	1388.6	1297.7	1214.4	1139.2	1078.6	1025.5	977.1	947.8
22.5°	1677.4	1577.9	1480.5	1380.5	1282.6	1195.2	1121.0	1052.8	994.2	948.8	910.9
25°	1692.6	1577.4	1471.4	1374.5	1276.0	1182.1	1093.7	1023.0	960.9	911.9	873.6
27.5°	1704.7	1571.4	1449.7	1344.2	1244.7	1149.2	1069.5	993.7	931.6	880.6	838.7
30°	1707.7	1563.8	1423.9	1307.3	1205.8	1120.0	1034.1	962.4	895.8	840.7	802.4
32.5°	1711.8	1545.1	1389.1	1263.4	1158.8	1074.0	998.3	930.6	861.9	807.9	768.5
35°	1697.6	1540.6	1353.8	1211.4	1107.3	1025.0	954.8	891.7	824.6	772.1	732.2
37.5°	1654.7	1515.8	1318.4	1153.3	1045.7	970.0	911.4	853.9	791.7	734.2	697.3
40°	1582.5	1475.4	1276.0	1101.3	987.7	909.4	857.9	813.0	753.4	700.4	660.0
42.5°	1474.9	1420.4	1235.6	1046.7	922.0	847.3	805.9	764.5	714.0	660.0	622.6
45°	1338.6	1347.2	1177.5	988.2	862.4	786.7	745.8	716.5	670.1	625.6	586.7
47.5°	1173.0	1244.7	1115.4	926.6	797.8	726.6	690.8	664.0	631.7	585.7	549.9
50°	1011.4	1126.0	1037.7	864.5	737.7	667.0	631.7	611.0	583.7	549.4	515.5
52.5°	862.4	987.7	943.7	795.3	672.6	609.5	575.1	559.0	538.8	507.0	477.2
55°	727.6	852.3	840.2	725.6	607.4	549.4	523.1	503.9	489.3	465.1	440.8
57.5°	610.5	731.2	733.7	648.3	550.9	491.8	469.1	453.9	443.8	424.7	400.9
60°	500.9	609.5	630.7	570.1	489.3	438.8	416.6	405.0	397.4	382.7	365.6
62.5°	410.0	498.4	523.1	483.7	430.2	383.8	367.6	356.5	351.9	339.8	325.2
65°	327.7	404.5	427.7	403.4	372.6	334.8	320.6	311.0	306.5	299.4	288.3
67.5°	258.5	318.1	343.4	323.2	311.5	284.8	275.2	269.6	265.6	260.6	251.0
70°	197.9	239.3	265.6	261.1	252.0	239.3	232.8	229.2	225.2	221.2	213.1
72.5°	149.5	174.7	198.9	203.0	195.9	195.9	190.4	189.4	187.3	182.3	178.7
75°	105.5	125.2	142.4	149.0	152.0	154.5	152.0	151.5	151.0	146.9	144.4
77.5°	73.2	85.8	97.5	109.1	113.1	116.6	117.1	119.2	117.7	115.1	114.1
80°	53.0	55.5	63.1	72.7	80.3	83.3	85.3	86.3	85.8	85.3	83.3
82.5°	34.8	36.9	39.4	45.4	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	34.8	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°	1179.5	1179.5	1179.5	1179.5	1179.5	1179.5	1179.5	1179.5	1179.5	1179.5	1179.5
2.5°	1154.3	1147.7	1143.2	1133.1	1126.5	1119.5	1112.4	1116.9	1116.4	1115.9	1115.9
5°	1120.5	1108.9	1098.3	1084.6	1076.0	1065.4	1057.3	1056.3	1058.4	1051.3	1047.3
7.5°	1088.7	1073.5	1058.4	1044.2	1028.6	1016.4	1008.9	1005.8	1000.3	995.7	991.7
10°	1054.8	1036.1	1021.5	1002.8	985.6	970.5	960.9	954.3	950.8	947.3	940.7
12.5°	1020.0	1001.8	982.1	960.4	944.2	926.1	919.5	911.9	904.4	900.3	890.7
15°	986.2	962.4	942.7	920.5	902.3	885.2	875.1	860.4	858.4	853.4	844.3
17.5°	953.3	927.1	898.3	883.1	865.0	846.8	830.6	826.1	810.9	805.9	797.3
20°	912.9	889.2	868.5	846.8	817.0	800.3	788.2	781.7	770.0	763.0	757.9
22.5°	878.1	853.9	829.1	802.9	779.6	760.4	752.4	741.3	736.2	725.6	720.0
25°	845.3	819.0	790.2	763.0	745.3	731.2	717.0	707.9	698.8	694.3	684.2
27.5°	805.4	779.1	751.4	730.1	709.9	695.8	682.2	674.6	663.0	655.4	649.9
30°	773.6	741.3	718.0	699.3	671.6	658.4	648.9	638.8	630.7	622.6	617.0
32.5°	736.7	707.9	686.2	662.0	642.3	627.6	614.5	605.9	599.4	591.8	586.2
35°	697.8	673.1	650.4	627.1	611.5	596.8	582.2	574.6	568.1	561.0	555.9
37.5°	662.5	639.3	618.0	595.8	576.6	564.0	551.9	546.9	537.8	532.7	527.7
40°	630.2	607.4	584.2	563.0	542.8	533.7	523.1	514.5	506.5	502.9	497.4
42.5°	594.8	572.1	553.4	530.2	514.5	501.4	491.8	482.2	476.7	471.1	468.6
45°	560.0	539.8	520.6	497.9	482.2	471.6	460.5	451.9	446.4	442.8	437.3
47.5°	526.7	506.0	486.8	466.6	451.4	439.3	427.7	422.1	414.6	410.5	406.5
50°	489.8	471.6	450.9	432.7	417.6	405.5	396.4	388.8	382.2	376.7	374.2
52.5°	456.0	436.3	419.1	402.4	386.3	372.1	364.1	356.0	351.4	344.9	341.8
55°	418.1	399.4	384.3	367.6	351.9	340.3	330.2	323.2	318.1	311.0	307.0
57.5°	383.3	367.1	348.4	333.8	317.1	308.0	299.4	289.3	283.3	277.7	273.7
60°	347.9	328.7	313.1	299.4	285.3	272.7	265.1	257.5	251.0	245.4	241.9
62.5°	311.0	294.9	280.2	265.1	252.5	241.9	232.8	226.7	221.2	218.1	214.6
65°	273.2	260.0	244.9	232.8	220.7	212.6	205.5	200.0	195.9	193.4	190.4
67.5°	238.3	225.7	212.1	199.5	191.4	184.8	179.8	174.7	172.7	169.7	167.6
70°	204.5	191.4	179.8	170.7	162.6	158.0	155.0	151.5	149.5	145.4	143.4
72.5°	167.6	159.1	151.5	144.4	138.4	134.3	130.3	125.7	122.2	117.7	115.6
75°	137.8	129.3	122.7	117.7	113.6	108.1	102.5	98.0	96.4	94.9	94.4
77.5°	107.6	102.0	96.9	92.9	87.4	82.3	80.8	79.8	79.3	78.3	78.3
80°	80.3	75.2	71.7	66.7	63.6	63.6	63.6	62.6	63.1	63.1	63.1
82.5°	54.5	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: P242576

CATALOG NUMBER: S123RDRP-S775D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1179.5	1179.5	1179.5	1179.5
2.5°	1109.9	1109.4	1109.9	1107.8
5°	1045.7	1045.2	1043.7	1039.2
7.5°	987.7	986.7	982.6	983.6
10°	937.2	937.7	931.6	928.1
12.5°	888.2	885.2	880.6	876.6
15°	846.3	841.2	829.1	830.1
17.5°	794.3	790.2	789.7	782.7
20°	749.8	747.3	748.3	741.3
22.5°	715.0	712.5	706.9	705.9
25°	681.2	677.1	673.1	675.6
27.5°	646.8	643.8	639.3	639.3
30°	614.5	611.5	609.5	606.9
32.5°	581.7	581.7	577.7	577.7
35°	553.9	550.9	549.9	550.4
37.5°	527.2	523.1	521.1	519.1
40°	497.9	493.8	492.8	491.8
42.5°	465.1	464.0	463.5	461.5
45°	435.8	435.3	432.2	433.2
47.5°	404.5	401.9	400.4	401.9
50°	372.1	371.1	366.6	367.6
52.5°	339.8	335.3	334.3	333.3
55°	303.5	298.9	296.9	295.9
57.5°	267.6	266.1	264.1	265.6
60°	236.8	236.8	236.8	236.3
62.5°	213.1	211.6	211.1	212.1
65°	188.8	188.3	186.3	185.8
67.5°	166.6	164.6	164.6	163.6
70°	140.9	139.9	136.8	137.3
72.5°	113.1	112.1	112.1	111.1
75°	93.9	93.4	92.9	94.9
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: P242576
 CATALOG NUMBER: S123RDRP-S775D840-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	22.06	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	18.55	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	24.13	24.56
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	20.76	21.20	22.82	23.75	23.25	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	19.87	20.55	20.36	21.03	21.50	23.53	24.21	24.01	24.68	25.16
8H	4H	19.78	20.54	20.25	20.98	21.45	22.87	23.63	23.34	24.08	24.54
	6H	20.16	20.78	20.65	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	24.25	24.27	24.75	25.31
12H	4H	19.81	20.49	20.30	20.97	21.44	22.86	23.54	23.34	24.01	24.49
	6H	20.20	20.76	20.71	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