

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P832308

Luminaire Tested: S123RDIP-S775D1025U835-4F0-1E-UDD-G

Issue Date: 05/03/2024

Test Information

Test Method: LM-79-2019
Report Number: P832308
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2301-905-2, G3-1807-864-5)
Test Lab: INNOVATION CENTER
Issue Date: 05/03/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-S775D1025U835-4F0-1E-UDD-G
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, GRAZE OPTIC
UPLIGHT 1025 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: -

Summary

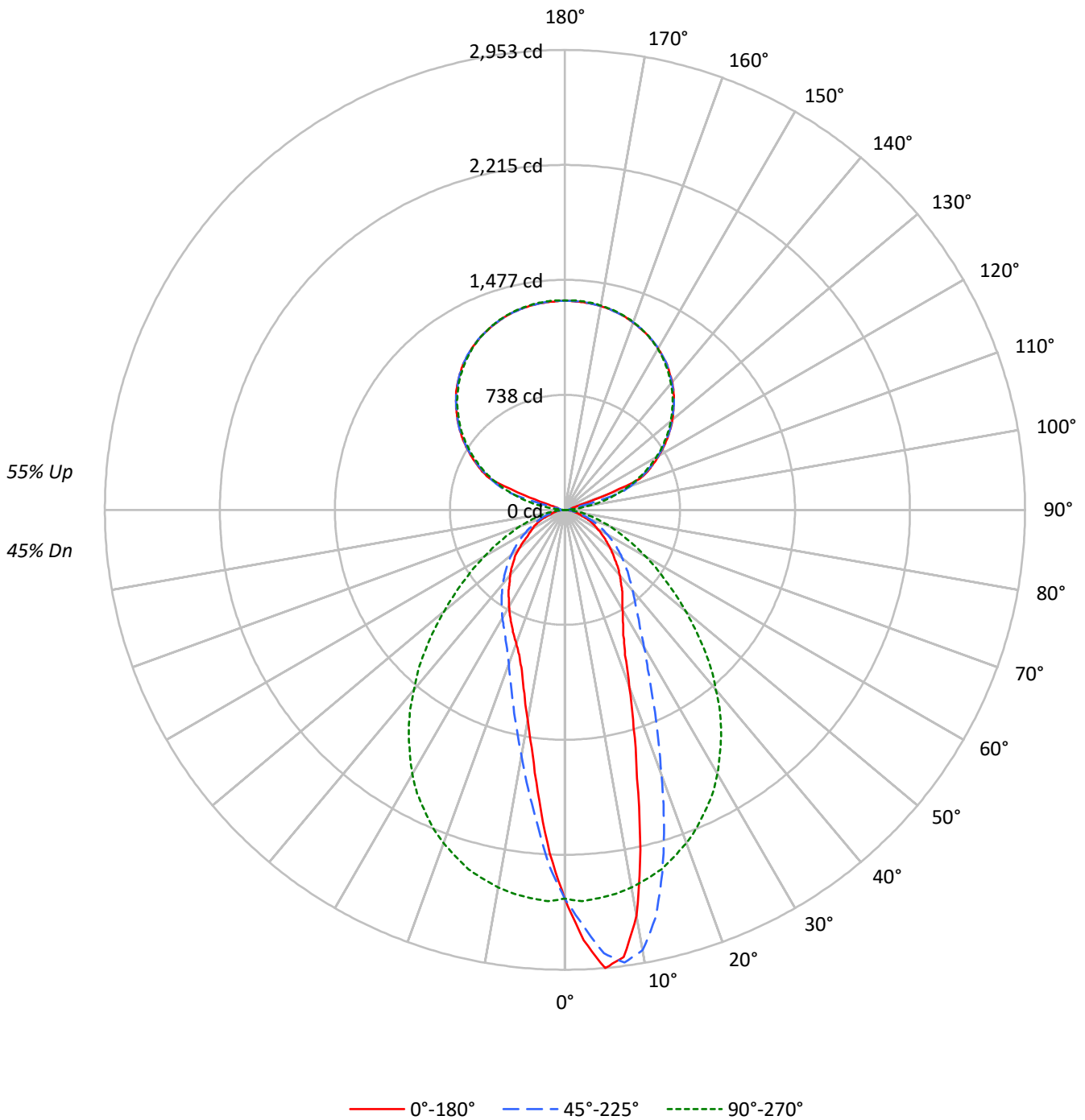
Lumens per Lamp: N/A
Luminaire Lumens: 7408.2 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 1.17 / 0.8
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 51.8
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	0	
RCR																						
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45				45
1	97	93	90	86	89	86	83	80	71	69	67	58	57	56	46	45	45	39				39
2	89	82	77	72	82	76	71	67	64	60	57	52	50	48	42	40	39	34				34
3	82	73	66	61	75	67	62	57	57	52	49	47	44	41	38	36	34	30				30
4	75	65	58	52	69	60	54	49	51	46	42	42	39	36	34	32	30	26				26
5	69	59	51	45	64	54	48	43	46	41	37	38	35	32	31	29	27	23				23
6	64	53	45	40	59	49	42	37	42	37	33	35	31	28	29	26	24	21				21
7	60	48	41	35	55	45	38	33	38	33	29	32	28	26	27	24	22	19				19
8	56	44	37	32	51	41	34	30	35	30	27	30	26	23	25	22	20	18				18
9	52	40	33	28	48	38	31	27	33	28	24	28	24	21	23	20	18	16				16
10	49	37	30	26	45	35	29	24	30	25	22	26	22	19	22	19	17	15				15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	26872	26872	26872	26872	26872
5°	31907	30889	27041	21860	20294
10°	28909	31376	26906	17514	15024
15°	19904	26902	26622	14315	11886
20°	13846	20711	26087	12071	10447
25°	10552	15785	25310	10728	9628
30°	9185	12621	24337	9962	8918
35°	8433	10646	22959	9314	8272
40°	7694	9507	21157	8679	7680
45°	6949	8694	19212	8079	7089
50°	6308	8021	16918	7490	6358
55°	5705	7366	14713	6915	5455
60°	5113	6699	12781	6280	5156
65°	4720	5945	11000	5644	4875
70°	3833	5139	9599	5105	3962
75°	3365	4088	8131	4234	3489
80°	3044	3459	6664	3552	3298
85°	2779	3038	5051	3223	3038

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 80°
 Vertical Angle: 45°
 Luminance: 20272 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.6	3.1
10°-20°	526.5	7.1
20°-30°	604.1	8.2
30°-40°	595.5	8.0
40°-50°	525.1	7.1
50°-60°	404.0	5.5
60°-70°	265.6	3.6
70°-80°	129.0	1.7
80°-90°	35.2	0.5
90°-100°	47.4	0.6
100°-110°	229.0	3.1
110°-120°	561.3	7.6
120°-130°	712.6	9.6
130°-140°	761.2	10.3
140°-150°	711.8	9.6
150°-160°	574.2	7.8
160°-170°	370.5	5.0
170°-180°	127.7	1.7
0°-30°	1358.2	18.3
0°-40°	1953.7	26.4
0°-60°	2882.8	38.9
0°-90°	3312.6	44.7
90°-120°	837.6	11.3
90°-150°	3023.2	40.8
90°-180°	4096.0	55.3
0°-180°	7408.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2496	2496	2496	2496	2496	
5°	2953	2859	2503	2023	1878	270
15°	1786	2414	2389	1285	1067	504
25°	888	1329	2131	903	811	420
35°	642	810	1747	709	630	400
45°	456	571	1262	531	466	354
55°	304	392	784	368	291	273
65°	185	233	432	222	191	182
75°	81	98	196	102	84	87
85°	22	25	41	26	25	24
90°	30	24	1	24	30	14
95°	38	31	61	31	38	32
105°	44	219	297	219	44	91
115°	587	573	558	573	587	552
125°	802	798	786	798	802	717
135°	989	989	979	989	989	763
145°	1141	1139	1130	1139	1141	712
155°	1243	1244	1245	1244	1243	573
165°	1310	1309	1313	1309	1310	370
175°	1338	1340	1344	1340	1338	127
180°	1344	1344	1344	1344	1344	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5
2.5°	2766.7	2758.0	2749.3	2746.7	2744.2	2736.0	2727.8	2709.4	2690.9	2672.0	2653.1
5°	2953.0	2954.0	2955.0	2952.5	2949.9	2939.2	2928.4	2905.9	2883.4	2858.8	2834.2
7.5°	2895.7	2912.0	2928.4	2931.5	2934.6	2942.7	2950.9	2945.8	2940.7	2931.5	2922.3
10°	2644.9	2643.9	2642.8	2661.3	2679.7	2734.5	2789.2	2817.4	2845.5	2870.6	2895.7
12.5°	2235.5	2237.0	2238.5	2298.9	2359.3	2411.0	2462.7	2534.3	2606.0	2683.3	2760.6
15°	1786.1	1811.2	1836.3	1890.0	1943.7	2021.5	2099.3	2195.5	2291.8	2414.1	2536.4
17.5°	1466.8	1477.5	1488.3	1540.0	1591.6	1665.3	1739.0	1848.0	1957.1	2114.7	2272.3
20°	1208.8	1218.6	1228.3	1265.6	1303.0	1373.6	1444.2	1548.1	1652.0	1808.1	1964.2
22.5°	1009.2	1028.2	1047.1	1072.2	1097.3	1148.4	1199.6	1305.6	1411.5	1553.8	1696.0
25°	888.5	897.2	905.9	927.3	948.8	998.0	1047.1	1117.2	1187.3	1329.1	1470.9
27.5°	806.6	809.1	811.7	827.6	843.4	875.1	906.9	971.9	1036.9	1153.6	1270.2
30°	739.0	743.6	748.2	760.5	772.8	795.8	818.9	864.9	911.0	1015.4	1119.8
32.5°	686.8	689.4	691.9	702.2	712.4	729.3	746.2	782.5	818.9	898.7	978.5
35°	641.8	642.3	642.8	650.5	658.2	674.5	690.9	721.1	751.3	810.2	869.0
37.5°	590.6	594.2	597.8	603.4	609.0	623.4	637.7	662.2	686.8	735.4	784.0
40°	547.6	550.7	553.7	560.4	567.1	578.3	589.6	612.1	634.6	676.6	718.5
42.5°	504.6	506.7	508.7	515.4	522.0	535.8	549.7	567.6	585.5	620.3	655.1
45°	456.5	461.6	466.7	473.9	481.1	492.8	504.6	523.0	541.5	571.1	600.8
47.5°	416.6	419.1	421.7	427.8	434.0	448.3	462.7	479.0	495.4	523.0	550.7
50°	376.7	377.7	378.7	384.3	390.0	402.8	415.6	434.5	453.4	479.0	504.6
52.5°	338.8	341.4	343.9	349.5	355.2	363.9	372.6	392.0	411.5	436.6	461.6
55°	304.0	305.5	307.1	311.2	315.3	325.5	335.7	352.6	369.5	392.5	415.6
57.5°	271.2	273.3	275.3	278.4	281.5	290.7	299.9	314.7	329.6	352.6	375.6
60°	237.5	240.0	242.6	246.2	249.7	256.9	264.1	277.4	290.7	311.2	331.6
62.5°	212.9	213.4	213.9	217.0	220.1	225.2	230.3	241.0	251.8	272.3	292.7
65°	185.3	186.8	188.3	189.9	191.4	195.5	199.6	208.8	218.0	233.4	248.7
67.5°	156.6	158.1	159.7	162.2	164.8	168.4	172.0	178.1	184.2	198.6	212.9
70°	121.8	121.8	121.8	125.9	130.0	136.1	142.3	146.9	151.5	163.3	175.0
72.5°	99.3	99.8	100.3	100.8	101.3	104.9	108.5	116.2	123.9	131.0	138.2
75°	80.9	81.4	81.9	82.4	82.9	83.9	85.0	87.5	90.1	98.3	106.5
77.5°	64.5	65.0	65.5	66.0	66.5	67.6	68.6	69.6	70.6	73.7	76.8
80°	49.1	49.6	50.2	50.7	51.2	51.7	52.2	53.2	54.2	55.8	57.3
82.5°	35.8	35.8	35.8	35.8	35.8	36.8	37.9	37.9	37.9	38.9	39.9
85°	22.5	22.5	22.5	23.0	23.5	23.5	23.5	24.1	24.6	24.6	24.6
87.5°	10.2	9.7	9.2	9.7	10.2	10.2	10.2	10.7	11.3	11.3	11.3
90°	29.9	29.5	29.1	28.6	28.2	27.5	26.6	25.7	24.8	24.0	21.1
92.5°	33.9	33.7	33.5	33.3	33.0	32.2	30.6	29.1	27.5	26.0	24.0
95°	37.9	37.9	37.9	37.9	37.9	37.2	35.6	34.0	32.5	30.9	28.5
97.5°	40.9	40.7	40.5	40.3	40.0	39.0	37.3	35.5	33.7	31.9	43.3
100°	41.9	41.7	41.5	41.3	41.0	40.0	38.3	36.5	34.7	32.9	67.5
102.5°	42.9	42.5	42.0	41.6	41.1	44.6	51.9	59.2	66.5	73.9	112.5
105°	43.9	43.5	43.0	42.6	42.1	61.6	100.8	140.1	179.3	218.6	238.6
107.5°	103.8	132.9	161.9	191.0	220.0	251.6	285.8	320.0	354.1	388.3	385.0
110°	274.5	306.2	337.9	369.6	401.4	420.9	428.2	435.5	442.8	450.2	447.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	520.0	520.5	520.9	521.4	521.8	521.0	519.0	517.0	515.0	513.0	510.6
115°	586.9	586.0	585.1	584.2	583.4	581.8	579.6	577.4	575.2	572.9	570.9
117.5°	640.8	640.6	640.4	640.1	639.9	638.9	637.2	635.4	633.6	631.8	630.7
120°	696.7	696.7	696.7	696.7	696.7	695.8	694.0	692.3	690.5	688.7	688.1
122.5°	751.6	751.4	751.2	750.9	750.7	750.1	748.9	747.8	746.7	745.6	744.7
125°	802.5	802.1	801.6	801.2	800.7	800.3	799.8	799.4	799.0	798.5	797.6
127.5°	852.4	852.9	853.3	853.7	854.2	854.1	853.4	852.8	852.1	851.4	850.3
130°	900.3	900.8	901.2	901.7	902.1	901.9	901.0	900.1	899.2	898.3	897.4
132.5°	944.2	944.9	945.6	946.2	946.9	946.8	945.9	945.0	944.1	943.2	942.6
135°	989.2	989.8	990.5	991.2	991.8	991.8	991.2	990.5	989.8	989.2	988.3
137.5°	1032.1	1032.5	1033.0	1033.4	1033.9	1033.5	1032.4	1031.3	1030.2	1029.1	1028.6
140°	1070.0	1070.5	1070.9	1071.3	1071.8	1071.6	1070.7	1069.8	1068.9	1068.0	1067.4
142.5°	1104.9	1105.6	1106.3	1106.9	1107.6	1107.6	1106.9	1106.3	1105.6	1104.9	1104.3
145°	1140.9	1140.9	1140.9	1140.9	1140.9	1140.7	1140.2	1139.8	1139.3	1138.9	1138.4
147.5°	1166.8	1167.9	1169.1	1170.2	1171.3	1171.6	1171.2	1170.7	1170.3	1169.8	1169.4
150°	1196.8	1197.4	1198.1	1198.8	1199.4	1199.6	1199.1	1198.7	1198.2	1197.8	1197.3
152.5°	1220.7	1221.8	1223.0	1224.1	1225.2	1225.3	1224.4	1223.5	1222.6	1221.7	1221.5
155°	1242.7	1244.0	1245.4	1246.7	1248.0	1248.1	1247.0	1245.9	1244.8	1243.7	1243.5
157.5°	1261.7	1263.4	1265.2	1267.0	1268.8	1269.0	1267.6	1266.3	1265.0	1263.7	1263.9
160°	1279.6	1281.2	1282.7	1284.3	1285.8	1285.9	1284.6	1283.3	1282.0	1280.6	1280.8
162.5°	1296.6	1297.9	1299.3	1300.6	1301.9	1301.8	1300.3	1298.7	1297.1	1295.6	1295.8
165°	1309.6	1311.1	1312.7	1314.2	1315.8	1315.7	1313.9	1312.1	1310.3	1308.6	1308.8
167.5°	1319.6	1321.3	1323.1	1324.9	1326.6	1326.6	1324.9	1323.1	1321.3	1319.6	1319.6
170°	1328.5	1330.3	1332.1	1333.9	1335.6	1335.6	1333.9	1332.1	1330.3	1328.5	1328.5
172.5°	1333.5	1335.5	1337.5	1339.5	1341.5	1341.6	1339.8	1338.1	1336.3	1334.5	1334.3
175°	1338.5	1340.3	1342.1	1343.8	1345.6	1345.7	1344.2	1342.6	1341.1	1339.5	1339.3
177.5°	1339.5	1341.7	1343.9	1346.2	1348.4	1348.6	1346.8	1345.1	1343.3	1341.5	1341.3
180°	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5
2.5°	2650.5	2648.0	2623.4	2598.8	2574.8	2550.7	2532.8	2514.9	2484.7	2454.5	2435.6
5°	2814.8	2795.4	2756.5	2717.6	2659.2	2600.9	2551.7	2502.6	2440.2	2377.7	2325.5
7.5°	2906.4	2890.5	2843.5	2796.4	2719.1	2641.8	2565.1	2488.3	2396.2	2304.0	2225.2
10°	2909.0	2922.3	2883.4	2844.5	2757.5	2670.5	2566.1	2461.7	2337.8	2214.0	2112.1
12.5°	2817.9	2875.2	2867.0	2858.8	2770.3	2681.7	2554.8	2427.9	2275.9	2123.9	1996.5
15°	2647.4	2758.5	2791.3	2824.0	2750.8	2677.6	2533.3	2389.0	2210.4	2031.8	1885.4
17.5°	2427.9	2583.5	2670.0	2756.5	2703.2	2650.0	2491.9	2333.7	2132.6	1931.5	1772.3
20°	2167.9	2371.6	2507.2	2642.8	2623.4	2603.9	2440.7	2277.4	2060.4	1843.4	1671.0
22.5°	1911.0	2125.9	2313.3	2500.6	2520.5	2540.5	2375.7	2210.9	1973.4	1736.0	1560.4
25°	1689.4	1907.9	2131.1	2354.2	2399.2	2444.3	2287.7	2131.1	1884.9	1638.7	1464.2
27.5°	1478.0	1685.8	1931.5	2177.1	2259.0	2340.9	2197.6	2054.3	1797.9	1541.5	1367.5
30°	1305.6	1491.3	1742.1	1992.9	2107.0	2221.1	2089.6	1958.1	1703.7	1449.4	1278.9
32.5°	1144.9	1311.2	1563.0	1814.8	1947.3	2079.9	1966.3	1852.7	1608.0	1363.4	1195.0
35°	1017.9	1166.9	1401.8	1636.7	1785.1	1933.5	1840.4	1747.2	1508.2	1269.2	1110.1
37.5°	908.9	1033.8	1254.4	1475.0	1632.6	1790.2	1712.4	1634.6	1410.0	1185.3	1034.8
40°	818.9	919.2	1124.4	1329.6	1484.2	1638.7	1572.2	1505.7	1304.5	1103.4	962.7
42.5°	741.6	828.1	1012.3	1196.5	1338.3	1480.1	1436.1	1392.0	1209.9	1027.7	897.2
45°	673.5	746.2	908.4	1070.6	1201.2	1331.7	1296.9	1262.1	1104.9	947.8	828.1
47.5°	613.1	675.6	820.4	965.2	1082.4	1199.6	1167.4	1135.1	1005.1	875.1	766.1
50°	557.8	611.1	731.8	852.6	958.1	1063.5	1036.9	1010.3	902.8	795.3	701.1
52.5°	505.6	549.7	658.2	766.6	851.6	936.6	916.1	895.6	812.7	729.8	644.3
55°	456.0	496.4	588.0	679.6	752.3	825.0	804.5	784.0	719.6	655.1	579.8
57.5°	411.0	446.3	520.5	594.7	652.5	710.4	700.6	690.9	637.2	583.4	521.5
60°	363.4	395.1	459.1	523.0	569.6	616.2	604.9	593.7	555.3	516.9	463.7
62.5°	320.9	349.0	400.2	451.4	489.3	527.1	518.9	510.8	481.6	452.4	408.4
65°	276.4	304.0	345.5	386.9	416.6	446.3	439.1	431.9	409.9	387.9	352.6
67.5°	235.9	259.0	294.8	330.6	350.6	370.5	366.4	362.3	345.5	328.6	300.9
70°	195.0	214.9	244.6	274.3	288.1	302.0	303.5	305.0	289.7	274.3	253.8
72.5°	154.0	169.9	197.5	225.2	235.9	246.7	246.2	245.7	236.4	227.2	208.8
75°	118.2	130.0	151.5	173.0	182.2	191.4	193.5	195.5	186.8	178.1	167.9
77.5°	85.0	93.1	109.5	125.9	136.1	146.4	147.4	148.4	144.3	140.2	130.5
80°	59.9	62.4	72.7	82.9	93.7	104.4	105.9	107.5	103.4	99.3	93.1
82.5°	41.5	43.0	46.6	50.2	58.9	67.6	69.6	71.6	69.6	67.6	60.9
85°	25.1	25.6	27.1	28.7	32.8	36.8	38.9	40.9	39.9	38.9	35.3
87.5°	11.3	11.3	11.8	12.3	13.3	14.3	16.9	19.4	17.9	16.4	14.8
90°	18.2	15.3	12.4	9.9	7.7	5.4	3.2	1.0	3.2	5.4	7.7
92.5°	22.0	20.0	18.0	17.6	19.0	20.3	21.6	23.0	21.6	20.3	19.0
95°	26.1	23.6	21.2	24.5	33.6	42.7	51.8	60.9	51.8	42.7	33.6
97.5°	54.6	65.9	77.2	86.0	92.2	98.4	104.6	110.8	104.6	98.4	92.2
100°	102.1	136.7	171.3	186.4	182.0	177.6	173.1	168.7	173.1	177.6	182.0
102.5°	151.1	189.6	228.2	246.1	243.2	240.3	237.4	234.6	237.4	240.3	243.2
105°	258.5	278.5	298.4	307.2	304.8	302.3	299.9	297.4	299.9	302.3	304.8
107.5°	381.6	378.3	375.0	372.3	370.3	368.3	366.3	364.3	366.3	368.3	370.3
110°	445.3	442.8	440.4	438.3	436.5	434.7	433.0	431.2	433.0	434.7	436.5



TEST NUMBER: P832308

CATALOG NUMBER: S123RDIP-S775D1025U835-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	508.2	505.7	503.3	501.3	499.7	498.2	496.6	495.1	496.6	498.2	499.7
115°	568.9	566.9	565.0	563.3	562.0	560.6	559.3	558.0	559.3	560.6	562.0
117.5°	629.6	628.5	627.4	626.1	624.5	623.0	621.4	619.8	621.4	623.0	624.5
120°	687.4	686.7	686.1	684.7	682.7	680.7	678.7	676.7	678.7	680.7	682.7
122.5°	743.8	743.0	742.1	740.8	739.3	737.7	736.2	734.6	736.2	737.7	739.3
125°	796.7	795.9	795.0	793.6	791.9	790.1	788.3	786.5	788.3	790.1	791.9
127.5°	849.2	848.1	847.0	845.5	843.8	842.0	840.2	838.4	840.2	842.0	843.8
130°	896.6	895.7	894.8	893.5	891.7	889.9	888.1	886.4	888.1	889.9	891.7
132.5°	941.9	941.3	940.6	939.4	937.6	935.8	934.0	932.3	934.0	935.8	937.6
135°	987.4	986.5	985.6	984.5	983.2	981.8	980.5	979.2	980.5	981.8	983.2
137.5°	1028.2	1027.8	1027.3	1026.2	1024.4	1022.7	1020.9	1019.1	1020.9	1022.7	1024.4
140°	1066.7	1066.0	1065.4	1064.4	1063.0	1061.7	1060.4	1059.0	1060.4	1061.7	1063.0
142.5°	1103.6	1103.0	1102.3	1101.3	1100.0	1098.6	1097.3	1096.0	1097.3	1098.6	1100.0
145°	1138.0	1137.6	1137.1	1136.1	1134.6	1133.0	1131.5	1129.9	1131.5	1133.0	1134.6
147.5°	1168.9	1168.5	1168.1	1167.3	1166.2	1165.1	1164.0	1162.8	1164.0	1165.1	1166.2
150°	1196.9	1196.4	1196.0	1195.4	1194.8	1194.1	1193.5	1192.8	1193.5	1194.1	1194.8
152.5°	1221.3	1221.1	1220.8	1220.6	1220.4	1220.2	1220.0	1219.7	1220.0	1220.2	1220.4
155°	1243.2	1243.0	1242.8	1242.9	1243.4	1243.8	1244.2	1244.7	1244.2	1243.8	1243.4
157.5°	1264.1	1264.3	1264.5	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7
160°	1281.1	1281.3	1281.5	1281.7	1282.0	1282.2	1282.4	1282.6	1282.4	1282.2	1282.0
162.5°	1296.0	1296.3	1296.5	1296.9	1297.6	1298.3	1298.9	1299.6	1298.9	1298.3	1297.6
165°	1309.0	1309.2	1309.5	1309.9	1310.6	1311.2	1311.9	1312.6	1311.9	1311.2	1310.6
167.5°	1319.6	1319.6	1319.6	1320.0	1320.9	1321.8	1322.7	1323.5	1322.7	1321.8	1320.9
170°	1328.5	1328.5	1328.5	1329.0	1329.9	1330.8	1331.6	1332.5	1331.6	1330.8	1329.9
172.5°	1334.1	1333.9	1333.6	1334.1	1335.2	1336.3	1337.4	1338.5	1337.4	1336.3	1335.2
175°	1339.1	1338.8	1338.6	1339.1	1340.2	1341.3	1342.4	1343.5	1342.4	1341.3	1340.2
177.5°	1341.1	1340.8	1340.6	1341.1	1342.2	1343.3	1344.4	1345.5	1344.4	1343.3	1342.2
180°	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5



TEST NUMBER: P832308

CATALOG NUMBER: S123RDIP-S775D1025U835-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5
2.5°	2416.6	2387.5	2358.3	2337.3	2316.3	2290.2	2264.1	2263.1	2262.1	2242.6	2223.2
5°	2273.3	2222.7	2172.0	2122.4	2072.7	2023.1	1973.4	1962.2	1950.9	1934.0	1917.1
7.5°	2146.4	2065.6	1984.7	1921.2	1857.8	1808.1	1758.5	1724.7	1690.9	1664.8	1638.7
10°	2010.3	1910.0	1809.7	1732.9	1656.1	1602.4	1548.7	1509.8	1470.9	1452.4	1434.0
12.5°	1869.0	1760.0	1651.0	1575.8	1500.5	1436.1	1371.6	1336.3	1300.9	1275.4	1249.8
15°	1739.0	1621.8	1504.6	1424.8	1345.0	1284.6	1224.2	1188.9	1153.6	1128.0	1102.4
17.5°	1613.1	1494.9	1376.7	1295.8	1215.0	1160.2	1105.4	1071.2	1036.9	1021.0	1005.1
20°	1498.5	1379.3	1260.0	1183.8	1107.5	1053.8	1000.0	981.6	963.2	948.3	933.5
22.5°	1384.9	1270.2	1155.6	1082.4	1009.2	970.3	931.4	916.6	901.8	890.5	879.2
25°	1289.7	1175.6	1061.4	997.5	933.5	903.3	873.1	863.4	853.7	842.4	831.1
27.5°	1193.5	1085.0	976.5	925.3	874.1	849.6	825.0	812.7	800.4	791.2	782.0
30°	1108.5	1008.2	907.9	865.4	822.9	801.5	780.0	766.6	753.3	744.6	735.9
32.5°	1026.6	937.6	848.5	812.2	775.9	754.9	733.9	721.1	708.3	698.1	687.8
35°	950.9	873.6	796.3	763.1	729.8	708.8	687.8	675.0	662.2	652.0	641.8
37.5°	884.4	814.2	744.1	712.9	681.7	663.3	644.8	631.5	618.2	607.5	596.7
40°	821.9	760.0	698.1	667.9	637.7	617.7	597.8	586.0	574.2	564.5	554.8
42.5°	766.6	709.8	653.0	623.4	593.7	574.7	555.8	542.0	528.2	522.5	516.9
45°	708.3	658.2	608.0	579.3	550.7	530.7	510.8	499.0	487.2	482.1	477.0
47.5°	657.1	610.6	564.0	535.8	507.7	489.8	471.9	462.7	453.4	446.3	439.1
50°	607.0	561.9	516.9	489.8	462.7	447.3	431.9	420.7	409.4	404.3	399.2
52.5°	558.9	517.9	477.0	449.3	421.7	406.9	392.0	382.3	372.6	361.8	351.1
55°	504.6	468.8	433.0	408.4	383.8	368.5	353.1	341.9	330.6	319.4	308.1
57.5°	459.6	424.3	389.0	366.9	344.9	330.1	315.3	303.0	290.7	281.5	272.3
60°	410.4	379.7	349.0	327.5	306.0	291.7	277.4	265.6	253.8	249.2	244.6
62.5°	364.4	335.7	307.1	288.1	269.2	255.4	241.6	233.9	226.2	223.1	220.1
65°	317.3	292.7	268.2	250.8	233.4	221.6	209.8	206.2	202.7	200.1	197.5
67.5°	273.3	252.3	231.3	216.0	200.6	192.4	184.2	180.1	176.1	173.0	169.9
70°	233.4	214.9	196.5	183.2	169.9	162.2	154.6	151.0	147.4	141.8	136.1
72.5°	190.4	176.1	161.7	151.5	141.3	134.6	127.9	120.8	113.6	108.5	103.4
75°	157.6	143.3	129.0	119.2	109.5	101.8	94.2	91.6	89.1	87.5	86.0
77.5°	120.8	108.5	96.2	88.5	80.9	77.3	73.7	72.2	70.6	70.1	69.6
80°	87.0	76.8	66.5	62.4	58.3	57.3	56.3	55.3	54.2	53.7	53.2
82.5°	54.2	49.1	44.0	43.0	42.0	41.5	40.9	40.4	39.9	39.4	38.9
85°	31.7	29.7	27.6	27.1	26.6	26.1	25.6	25.6	25.6	25.6	25.6
87.5°	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	12.8	12.3
90°	9.9	12.4	15.3	18.2	21.1	24.0	24.8	25.7	26.6	27.5	28.2
92.5°	17.6	18.0	20.0	22.0	24.0	26.0	27.5	29.1	30.6	32.2	33.0
95°	24.5	21.2	23.6	26.1	28.5	30.9	32.5	34.0	35.6	37.2	37.9
97.5°	86.0	77.2	65.9	54.6	43.3	31.9	33.7	35.5	37.3	39.0	40.0
100°	186.4	171.3	136.7	102.1	67.5	32.9	34.7	36.5	38.3	40.0	41.0
102.5°	246.1	228.2	189.6	151.1	112.5	73.9	66.5	59.2	51.9	44.6	41.1
105°	307.2	298.4	278.5	258.5	238.6	218.6	179.3	140.1	100.8	61.6	42.1
107.5°	372.3	375.0	378.3	381.6	385.0	388.3	354.1	320.0	285.8	251.6	220.0
110°	438.3	440.4	442.8	445.3	447.7	450.2	442.8	435.5	428.2	420.9	401.4



TEST NUMBER: P832308

CATALOG NUMBER: S123RDIP-S775D1025U835-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	501.3	503.3	505.7	508.2	510.6	513.0	515.0	517.0	519.0	521.0	521.8
115°	563.3	565.0	566.9	568.9	570.9	572.9	575.2	577.4	579.6	581.8	583.4
117.5°	626.1	627.4	628.5	629.6	630.7	631.8	633.6	635.4	637.2	638.9	639.9
120°	684.7	686.1	686.7	687.4	688.1	688.7	690.5	692.3	694.0	695.8	696.7
122.5°	740.8	742.1	743.0	743.8	744.7	745.6	746.7	747.8	748.9	750.1	750.7
125°	793.6	795.0	795.9	796.7	797.6	798.5	799.0	799.4	799.8	800.3	800.7
127.5°	845.5	847.0	848.1	849.2	850.3	851.4	852.1	852.8	853.4	854.1	854.2
130°	893.5	894.8	895.7	896.6	897.4	898.3	899.2	900.1	901.0	901.9	902.1
132.5°	939.4	940.6	941.3	941.9	942.6	943.2	944.1	945.0	945.9	946.8	946.9
135°	984.5	985.6	986.5	987.4	988.3	989.2	989.8	990.5	991.2	991.8	991.8
137.5°	1026.2	1027.3	1027.8	1028.2	1028.6	1029.1	1030.2	1031.3	1032.4	1033.5	1033.9
140°	1064.4	1065.4	1066.0	1066.7	1067.4	1068.0	1068.9	1069.8	1070.7	1071.6	1071.8
142.5°	1101.3	1102.3	1103.0	1103.6	1104.3	1104.9	1105.6	1106.3	1106.9	1107.6	1107.6
145°	1136.1	1137.1	1137.6	1138.0	1138.4	1138.9	1139.3	1139.8	1140.2	1140.7	1140.9
147.5°	1167.3	1168.1	1168.5	1168.9	1169.4	1169.8	1170.3	1170.7	1171.2	1171.6	1171.3
150°	1195.4	1196.0	1196.4	1196.9	1197.3	1197.8	1198.2	1198.7	1199.1	1199.6	1199.4
152.5°	1220.6	1220.8	1221.1	1221.3	1221.5	1221.7	1222.6	1223.5	1224.4	1225.3	1225.2
155°	1242.9	1242.8	1243.0	1243.2	1243.5	1243.7	1244.8	1245.9	1247.0	1248.1	1248.0
157.5°	1264.7	1264.5	1264.3	1264.1	1263.9	1263.7	1265.0	1266.3	1267.6	1269.0	1268.8
160°	1281.7	1281.5	1281.3	1281.1	1280.8	1280.6	1282.0	1283.3	1284.6	1285.9	1285.8
162.5°	1296.9	1296.5	1296.3	1296.0	1295.8	1295.6	1297.1	1298.7	1300.3	1301.8	1301.9
165°	1309.9	1309.5	1309.2	1309.0	1308.8	1308.6	1310.3	1312.1	1313.9	1315.7	1315.8
167.5°	1320.0	1319.6	1319.6	1319.6	1319.6	1319.6	1321.3	1323.1	1324.9	1326.6	1326.6
170°	1329.0	1328.5	1328.5	1328.5	1328.5	1328.5	1330.3	1332.1	1333.9	1335.6	1335.6
172.5°	1334.1	1333.6	1333.9	1334.1	1334.3	1334.5	1336.3	1338.1	1339.8	1341.6	1341.5
175°	1339.1	1338.6	1338.8	1339.1	1339.3	1339.5	1341.1	1342.6	1344.2	1345.7	1345.6
177.5°	1341.1	1340.6	1340.8	1341.1	1341.3	1341.5	1343.3	1345.1	1346.8	1348.6	1348.4
180°	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5



TEST NUMBER: P832308

CATALOG NUMBER: S123RDIP-S775D1025U835-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	2496.5	2496.5	2496.5	2496.5
2.5°	2218.1	2212.9	2210.9	2208.9
5°	1901.3	1885.4	1881.8	1878.2
7.5°	1632.1	1625.4	1603.4	1581.4
10°	1413.5	1393.1	1383.9	1374.6
12.5°	1230.8	1211.9	1208.8	1205.8
15°	1089.1	1075.8	1071.2	1066.6
17.5°	995.9	986.7	981.1	975.5
20°	926.8	920.2	916.1	912.0
22.5°	874.1	869.0	865.9	862.9
25°	823.5	815.8	813.2	810.7
27.5°	775.3	768.7	766.1	763.6
30°	730.3	724.7	721.1	717.5
32.5°	681.2	674.5	672.5	670.4
35°	637.7	633.6	631.5	629.5
37.5°	591.6	586.5	583.4	580.4
40°	552.2	549.7	548.1	546.6
42.5°	512.3	507.7	507.2	506.7
45°	472.4	467.8	466.7	465.7
47.5°	435.0	430.9	430.4	429.9
50°	393.6	387.9	383.8	379.7
52.5°	346.0	340.8	337.3	333.7
55°	302.5	296.8	293.8	290.7
57.5°	269.7	267.2	265.6	264.1
60°	243.1	241.6	240.5	239.5
62.5°	218.5	217.0	217.0	217.0
65°	196.0	194.5	192.9	191.4
67.5°	166.8	163.8	163.3	162.7
70°	131.5	126.9	126.4	125.9
72.5°	102.9	102.4	101.3	100.3
75°	85.0	83.9	83.9	83.9
77.5°	68.6	67.6	67.6	67.6
80°	52.7	52.2	52.7	53.2
82.5°	38.9	38.9	38.4	37.9
85°	25.1	24.6	24.6	24.6
87.5°	12.3	12.3	12.3	12.3
90°	28.6	29.1	29.5	29.9
92.5°	33.3	33.5	33.7	33.9
95°	37.9	37.9	37.9	37.9
97.5°	40.3	40.5	40.7	40.9
100°	41.3	41.5	41.7	41.9
102.5°	41.6	42.0	42.5	42.9
105°	42.6	43.0	43.5	43.9
107.5°	191.0	161.9	132.9	103.8
110°	369.6	337.9	306.2	274.5



TEST NUMBER: P832308

CATALOG NUMBER: S123RDIP-S775D1025U835-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
112.5°	521.4	520.9	520.5	520.0
115°	584.2	585.1	586.0	586.9
117.5°	640.1	640.4	640.6	640.8
120°	696.7	696.7	696.7	696.7
122.5°	750.9	751.2	751.4	751.6
125°	801.2	801.6	802.1	802.5
127.5°	853.7	853.3	852.9	852.4
130°	901.7	901.2	900.8	900.3
132.5°	946.2	945.6	944.9	944.2
135°	991.2	990.5	989.8	989.2
137.5°	1033.4	1033.0	1032.5	1032.1
140°	1071.3	1070.9	1070.5	1070.0
142.5°	1106.9	1106.3	1105.6	1104.9
145°	1140.9	1140.9	1140.9	1140.9
147.5°	1170.2	1169.1	1167.9	1166.8
150°	1198.8	1198.1	1197.4	1196.8
152.5°	1224.1	1223.0	1221.8	1220.7
155°	1246.7	1245.4	1244.0	1242.7
157.5°	1267.0	1265.2	1263.4	1261.7
160°	1284.3	1282.7	1281.2	1279.6
162.5°	1300.6	1299.3	1297.9	1296.6
165°	1314.2	1312.7	1311.1	1309.6
167.5°	1324.9	1323.1	1321.3	1319.6
170°	1333.9	1332.1	1330.3	1328.5
172.5°	1339.5	1337.5	1335.5	1333.5
175°	1343.8	1342.1	1340.3	1338.5
177.5°	1346.2	1343.9	1341.7	1339.5
180°	1343.5	1343.5	1343.5	1343.5



TEST NUMBER: P832308

CATALOG NUMBER: S123RDIP-S775D1025U835-4F0-1E-UDD-G

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	11.66	12.43	12.67	13.45	14.80	16.33	17.10	17.34	18.11	19.46
	3H	12.88	13.57	13.90	14.59	15.96	17.82	18.51	18.84	19.53	20.90
	4H	13.26	13.91	14.29	14.93	16.31	18.31	18.96	19.34	19.98	21.36
	6H	13.54	14.13	14.58	15.17	16.55	18.62	19.21	19.66	20.24	21.63
	8H	13.62	14.19	14.67	15.24	16.62	18.69	19.26	19.74	20.31	21.69
	12H	13.67	14.21	14.73	15.25	16.66	18.72	19.26	19.78	20.30	21.71
4H	2H	12.38	13.03	13.42	14.05	15.43	16.31	16.96	17.35	17.99	19.37
	3H	13.74	14.28	14.79	15.34	16.73	17.97	18.51	19.01	19.56	20.95
	4H	14.20	14.69	15.25	15.74	17.15	18.57	19.07	19.63	20.11	21.52
	6H	14.56	14.98	15.62	16.05	17.46	19.01	19.43	20.07	20.50	21.91
	8H	14.68	15.08	15.75	16.14	17.56	19.14	19.53	20.20	20.59	22.01
	12H	14.76	15.11	15.84	16.19	17.62	19.19	19.55	20.28	20.63	22.05
8H	4H	14.51	14.90	15.57	15.96	17.39	18.53	18.93	19.60	19.99	21.41
	6H	14.97	15.29	16.05	16.40	17.82	19.03	19.35	20.12	20.46	21.88
	8H	15.16	15.45	16.25	16.53	17.97	19.21	19.50	20.31	20.59	22.03
	12H	15.30	15.55	16.39	16.63	18.11	19.33	19.58	20.42	20.66	22.14
12H	4H	14.51	14.87	15.60	15.95	17.37	18.48	18.84	19.56	19.91	21.34
	6H	15.03	15.31	16.12	16.40	17.84	19.00	19.29	20.10	20.38	21.81
	8H	15.24	15.49	16.34	16.57	18.05	19.19	19.44	20.29	20.53	22.01