

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: P832330

Luminaire Tested: S123RDIP-S775D1025U950-4F0-1E-UDD-G1

Issue Date: 05/03/2024

**Test Information**

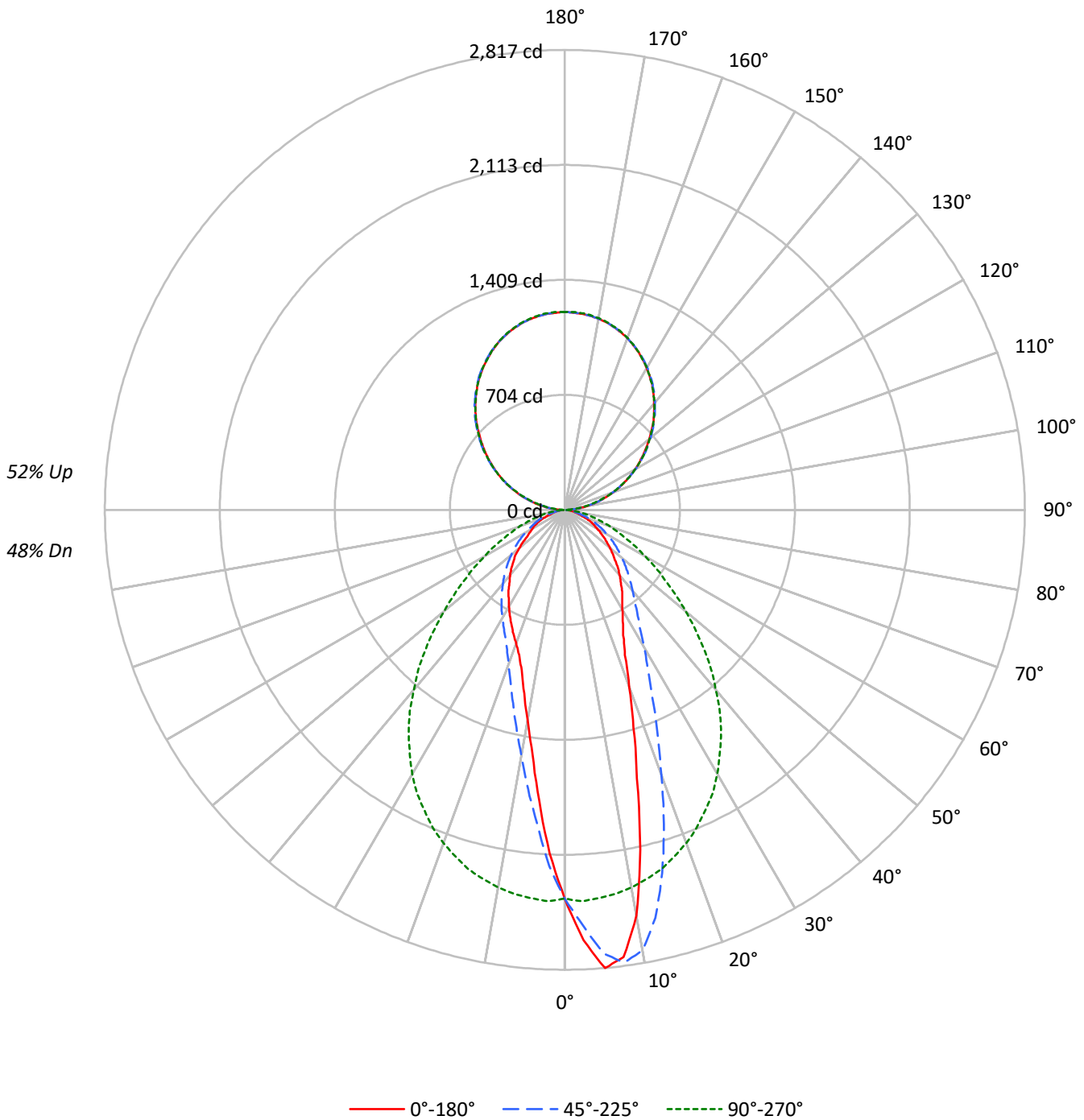
Test Method: LM-79-2019  
Report Number: P832330  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2301-905-2, G3-1807-864-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 05/03/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123RDIP-S775D1025U950-4F0-1E-UDD-G1  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 775 LUMENS PER FOOT, GRAZE OPTIC  
UPLIGHT 1025 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6519.2 lumens  
Efficiency: N/A  
Efficacy: 125.9 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



TEST NUMBER: P832330

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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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	55	55	55	48				48
1	98	94	91	87	90	87	84	81	73	71	69	61	60	58	50	49	48				42	
2	90	83	77	73	83	77	72	68	65	62	59	55	52	50	45	43	41				37	
3	83	74	67	62	76	69	63	58	58	54	50	49	46	43	40	38	36				32	
4	76	66	59	53	70	61	55	50	53	48	44	44	41	38	37	34	32				29	
5	70	59	52	46	65	55	49	43	48	42	38	40	36	33	34	31	29				25	
6	65	54	46	41	60	50	43	38	43	38	34	37	33	30	31	28	26				23	
7	60	49	41	36	56	46	39	34	40	34	31	34	30	27	29	26	23				21	
8	56	45	37	32	52	42	35	31	36	31	28	31	27	24	27	24	21				19	
9	53	41	34	29	49	39	32	28	34	29	25	29	25	22	25	22	20				18	
10	49	38	31	26	46	36	29	25	31	26	23	27	23	20	23	20	18				16	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	25635	25635	25635	25635	25635
5°	30439	29469	25797	20854	19360
10°	27578	29932	25668	16709	14334
15°	18989	25664	25397	13657	11339
20°	13210	19759	24888	11515	9966
25°	10067	15060	24145	10234	9185
30°	8763	12040	23218	9503	8508
35°	8046	10156	21904	8885	7891
40°	7340	9070	20183	8280	7326
45°	6629	8295	18328	7707	6763
50°	6017	7653	16139	7145	6067
55°	5442	7028	14037	6596	5204
60°	4876	6389	12193	5991	4919
65°	4500	5670	10496	5384	4651
70°	3657	4900	9158	4872	3780
75°	3206	3897	7756	4042	3331
80°	2907	3298	6354	3391	3149
85°	2655	2890	4829	3075	2890

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 80°  
 Vertical Angle: 45°  
 Luminance: 19339 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.1	3.3
10°-20°	502.3	7.7
20°-30°	576.3	8.8
30°-40°	568.1	8.7
40°-50°	501.0	7.7
50°-60°	385.4	5.9
60°-70°	253.4	3.9
70°-80°	123.1	1.9
80°-90°	33.6	0.5
90°-100°	78.0	1.2
100°-110°	236.2	3.6
110°-120°	402.1	6.2
120°-130°	529.0	8.1
130°-140°	594.6	9.1
140°-150°	584.6	9.0
150°-160°	492.1	7.5
160°-170°	327.6	5.0
170°-180°	114.7	1.8
0°-30°	1295.8	19.9
0°-40°	1863.8	28.6
0°-60°	2750.2	42.2
0°-90°	3160.2	48.5
90°-120°	716.3	11.0
90°-150°	2424.4	37.2
90°-180°	3359.0	51.5
0°-180°	6519.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2382	2382	2382	2382	2382	
5°	2817	2727	2388	1930	1792	257
15°	1704	2303	2279	1226	1018	481
25°	848	1268	2033	862	773	400
35°	612	773	1667	676	600	382
45°	436	545	1204	506	444	338
55°	290	374	748	352	277	260
65°	177	223	412	211	183	173
75°	77	94	186	97	80	83
85°	22	23	39	25	23	23
90°	29	23	1	23	29	15
95°	74	70	56	70	74	74
105°	227	225	214	225	227	240
115°	406	406	405	406	406	402
125°	586	593	592	593	586	524
135°	768	773	768	773	768	590
145°	932	937	932	937	932	582
155°	1066	1068	1068	1068	1066	491
165°	1159	1160	1163	1160	1159	327
175°	1205	1206	1209	1206	1205	114
180°	1212	1212	1212	1212	1212	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2381.6	2381.6	2381.6	2381.6	2381.6	2381.6	2381.6	2381.6	2381.6	2381.6	2381.6
2.5°	2639.4	2631.1	2622.8	2620.4	2617.9	2610.1	2602.3	2584.7	2567.2	2549.1	2531.0
5°	2817.1	2818.1	2819.1	2816.7	2814.2	2804.0	2793.7	2772.2	2750.7	2727.3	2703.9
7.5°	2762.5	2778.1	2793.7	2796.6	2799.6	2807.4	2815.2	2810.3	2805.4	2796.6	2787.9
10°	2523.2	2522.2	2521.3	2538.8	2556.4	2608.7	2660.9	2687.8	2714.6	2738.5	2762.5
12.5°	2132.6	2134.1	2135.6	2193.2	2250.8	2300.1	2349.4	2417.8	2486.1	2559.8	2633.6
15°	1704.0	1727.9	1751.8	1803.1	1854.3	1928.5	2002.8	2094.5	2186.3	2303.0	2419.7
17.5°	1399.3	1409.5	1419.8	1469.1	1518.4	1588.7	1659.0	1763.0	1867.0	2017.4	2167.8
20°	1153.2	1162.5	1171.8	1207.4	1243.1	1310.4	1377.8	1476.9	1576.0	1725.0	1873.9
22.5°	962.8	980.9	998.9	1022.9	1046.8	1095.6	1144.4	1245.5	1346.6	1482.3	1618.0
25°	847.6	855.9	864.2	884.7	905.2	952.1	998.9	1065.8	1132.7	1268.0	1403.2
27.5°	769.5	771.9	774.3	789.5	804.6	834.9	865.2	927.2	989.2	1100.5	1211.8
30°	705.0	709.4	713.8	725.5	737.2	759.2	781.2	825.1	869.1	968.7	1068.3
32.5°	655.2	657.7	660.1	669.9	679.6	695.7	711.9	746.5	781.2	857.3	933.5
35°	612.3	612.7	613.2	620.6	627.9	643.5	659.1	687.9	716.7	772.9	829.0
37.5°	563.4	566.8	570.3	575.6	581.0	594.7	608.3	631.8	655.2	701.6	748.0
40°	522.4	525.3	528.3	534.6	541.0	551.7	562.5	583.9	605.4	645.5	685.5
42.5°	481.4	483.4	485.3	491.7	498.0	511.2	524.4	541.5	558.5	591.7	624.9
45°	435.5	440.4	445.3	452.1	458.9	470.2	481.4	499.0	516.6	544.9	573.2
47.5°	397.4	399.9	402.3	408.2	414.0	427.7	441.4	457.0	472.6	499.0	525.3
50°	359.3	360.3	361.3	366.7	372.0	384.2	396.5	414.5	432.6	457.0	481.4
52.5°	323.2	325.7	328.1	333.5	338.8	347.1	355.4	374.0	392.5	416.5	440.4
55°	290.0	291.5	292.9	296.8	300.8	310.5	320.3	336.4	352.5	374.5	396.5
57.5°	258.8	260.7	262.7	265.6	268.5	277.3	286.1	300.3	314.4	336.4	358.4
60°	226.5	229.0	231.4	234.8	238.3	245.1	251.9	264.6	277.3	296.8	316.4
62.5°	203.1	203.6	204.1	207.0	209.9	214.8	219.7	230.0	240.2	259.7	279.3
65°	176.7	178.2	179.7	181.1	182.6	186.5	190.4	199.2	208.0	222.6	237.3
67.5°	149.4	150.9	152.3	154.8	157.2	160.6	164.0	169.9	175.8	189.4	203.1
70°	116.2	116.2	116.2	120.1	124.0	129.9	135.7	140.1	144.5	155.7	167.0
72.5°	94.7	95.2	95.7	96.2	96.7	100.1	103.5	110.8	118.2	125.0	131.8
75°	77.1	77.6	78.1	78.6	79.1	80.1	81.0	83.5	85.9	93.7	101.6
77.5°	61.5	62.0	62.5	63.0	63.5	64.4	65.4	66.4	67.4	70.3	73.2
80°	46.9	47.4	47.8	48.3	48.8	49.3	49.8	50.8	51.8	53.2	54.7
82.5°	34.2	34.2	34.2	34.2	34.2	35.2	36.1	36.1	36.1	37.1	38.1
85°	21.5	21.5	21.5	22.0	22.5	22.5	22.5	22.9	23.4	23.4	23.4
87.5°	9.8	9.3	8.8	9.3	9.8	9.8	9.8	10.3	10.7	10.7	10.7
90°	28.6	28.1	27.7	27.3	26.9	26.2	25.4	24.5	23.7	22.9	20.1
92.5°	40.9	41.4	41.8	42.2	42.6	42.5	41.9	41.3	40.6	40.0	38.7
95°	74.3	74.3	74.3	74.3	74.3	73.9	73.0	72.2	71.3	70.5	68.8
97.5°	106.7	106.9	107.1	107.3	107.5	107.1	106.0	105.0	103.9	102.8	101.6
100°	144.7	144.3	143.9	143.5	143.1	142.5	141.9	141.3	140.6	140.0	138.9
102.5°	183.8	184.0	184.2	184.4	184.6	184.4	183.8	183.2	182.5	181.9	180.4
105°	226.6	226.2	225.8	225.4	225.0	224.7	224.7	224.7	224.7	224.7	222.8
107.5°	270.5	270.7	270.9	271.1	271.3	271.1	270.5	269.8	269.2	268.5	267.7
110°	315.2	315.6	316.1	316.5	316.9	316.7	315.8	315.0	314.2	313.3	312.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	362.8	362.8	362.8	362.8	362.8	362.3	361.2	360.2	359.1	358.1	358.1
115°	405.7	405.9	406.1	406.3	406.5	406.5	406.3	406.1	405.9	405.7	406.1
117.5°	449.5	450.1	450.8	451.4	452.0	452.3	452.3	452.3	452.3	452.3	452.8
120°	496.1	496.6	497.0	497.4	497.8	498.2	498.4	498.6	498.8	499.0	500.1
122.5°	540.9	541.5	542.2	542.8	543.4	544.1	544.7	545.3	546.0	546.6	547.0
125°	585.7	586.5	587.4	588.2	589.0	589.9	590.7	591.6	592.4	593.3	593.7
127.5°	630.4	631.3	632.1	633.0	633.8	634.9	636.1	637.4	638.7	639.9	640.4
130°	674.2	675.7	677.2	678.7	680.1	681.3	682.2	683.0	683.9	684.7	685.3
132.5°	719.9	721.0	722.0	723.1	724.2	725.2	726.3	727.3	728.4	729.5	729.9
135°	767.5	768.0	768.4	768.8	769.2	769.9	770.7	771.6	772.4	773.3	773.5
137.5°	809.4	810.1	810.7	811.4	812.0	812.8	813.9	814.9	816.0	817.1	816.4
140°	850.4	851.9	853.4	854.8	856.3	857.2	857.4	857.6	857.8	858.0	857.8
142.5°	892.3	893.4	894.4	895.5	896.5	897.2	897.4	897.6	897.8	898.0	897.6
145°	932.3	933.1	934.0	934.8	935.7	936.2	936.4	936.6	936.8	937.1	936.4
147.5°	968.5	969.7	971.0	972.3	973.6	974.2	974.2	974.2	974.2	974.2	973.6
150°	1002.8	1004.0	1005.3	1006.6	1007.8	1008.5	1008.5	1008.5	1008.5	1008.5	1008.1
152.5°	1036.1	1037.2	1038.2	1039.3	1040.3	1040.6	1040.2	1039.8	1039.4	1038.9	1038.7
155°	1065.6	1067.1	1068.6	1070.1	1071.5	1071.9	1071.0	1070.2	1069.3	1068.5	1068.3
157.5°	1093.2	1094.5	1095.8	1097.0	1098.3	1098.5	1097.7	1096.8	1096.0	1095.1	1094.9
160°	1119.9	1120.7	1121.6	1122.4	1123.3	1123.2	1122.1	1121.1	1120.0	1118.9	1118.9
162.5°	1139.9	1141.4	1142.9	1144.3	1145.8	1146.0	1145.0	1143.9	1142.9	1141.8	1141.6
165°	1158.9	1160.4	1161.9	1163.4	1164.9	1165.0	1163.7	1162.4	1161.2	1159.9	1159.9
167.5°	1176.1	1177.3	1178.6	1179.9	1181.2	1181.2	1179.9	1178.6	1177.3	1176.1	1175.9
170°	1188.5	1189.9	1191.4	1192.9	1194.4	1194.4	1192.9	1191.4	1189.9	1188.5	1188.5
172.5°	1198.0	1199.5	1200.9	1202.4	1203.9	1204.0	1202.7	1201.5	1200.2	1198.9	1198.9
175°	1204.6	1206.1	1207.6	1209.1	1210.6	1210.7	1209.4	1208.1	1206.9	1205.6	1205.6
177.5°	1208.5	1209.9	1211.4	1212.9	1214.4	1214.5	1213.2	1211.9	1210.7	1209.4	1209.4
180°	1212.3	1212.3	1212.3	1212.3	1212.3	1212.3	1212.3	1212.3	1212.3	1212.3	1212.3



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2381.6	2381.6	2381.6	2381.6	2381.6	2381.6	2381.6	2381.6	2381.6	2381.6	2381.6
2.5°	2528.6	2526.2	2502.7	2479.3	2456.3	2433.4	2416.3	2399.2	2370.4	2341.6	2323.5
5°	2685.3	2666.8	2629.7	2592.6	2536.9	2481.2	2434.4	2387.5	2327.9	2268.4	2218.6
7.5°	2772.7	2757.6	2712.7	2667.7	2594.0	2520.3	2447.1	2373.8	2285.9	2198.1	2122.9
10°	2775.2	2787.9	2750.7	2713.6	2630.6	2547.6	2448.0	2348.4	2230.3	2112.1	2015.0
12.5°	2688.2	2742.9	2735.1	2727.3	2642.8	2558.4	2437.3	2316.2	2171.2	2026.2	1904.6
15°	2525.7	2631.6	2662.9	2694.1	2624.3	2554.5	2416.8	2279.1	2108.7	1938.3	1798.7
17.5°	2316.2	2464.6	2547.1	2629.7	2578.9	2528.1	2377.2	2226.4	2034.5	1842.6	1690.8
20°	2068.2	2262.5	2391.9	2521.3	2502.7	2484.2	2328.4	2172.7	1965.7	1758.6	1594.1
22.5°	1823.1	2028.1	2206.8	2385.5	2404.6	2423.6	2266.4	2109.2	1882.7	1656.1	1488.6
25°	1611.7	1820.2	2033.0	2245.9	2288.9	2331.8	2182.4	2033.0	1798.2	1563.3	1396.9
27.5°	1410.0	1608.3	1842.6	2077.0	2155.1	2233.2	2096.5	1959.8	1715.2	1470.6	1304.6
30°	1245.5	1422.7	1662.0	1901.2	2010.1	2119.0	1993.5	1868.0	1625.4	1382.7	1220.1
32.5°	1092.2	1250.9	1491.1	1731.3	1857.8	1984.2	1875.8	1767.4	1534.1	1300.7	1140.0
35°	971.1	1113.2	1337.3	1561.4	1703.0	1844.6	1755.7	1666.9	1438.8	1210.8	1059.0
37.5°	867.1	986.2	1196.7	1407.1	1557.5	1707.9	1633.7	1559.4	1345.1	1130.8	987.2
40°	781.2	876.9	1072.7	1268.4	1415.9	1563.3	1499.9	1436.4	1244.5	1052.6	918.4
42.5°	707.5	790.0	965.7	1141.5	1276.7	1412.0	1370.0	1328.0	1154.2	980.4	855.9
45°	642.5	711.9	866.6	1021.4	1145.9	1270.4	1237.2	1204.0	1054.1	904.2	790.0
47.5°	584.9	644.5	782.6	920.8	1032.6	1144.4	1113.7	1082.9	958.9	834.9	730.9
50°	532.2	583.0	698.2	813.4	914.0	1014.6	989.2	963.8	861.3	758.7	668.9
52.5°	482.4	524.4	627.9	731.4	812.4	893.5	873.9	854.4	775.3	696.2	614.7
55°	435.0	473.6	561.0	648.4	717.7	787.0	767.5	748.0	686.5	624.9	553.2
57.5°	392.1	425.7	496.5	567.3	622.5	677.7	668.4	659.1	607.9	556.6	497.5
60°	346.7	376.9	438.0	499.0	543.4	587.8	577.1	566.4	529.7	493.1	442.3
62.5°	306.1	333.0	381.8	430.6	466.8	502.9	495.1	487.3	459.4	431.6	389.6
65°	263.6	290.0	329.6	369.1	397.4	425.7	418.9	412.1	391.1	370.1	336.4
67.5°	225.1	247.0	281.2	315.4	334.4	353.5	349.6	345.7	329.6	313.5	287.1
70°	186.0	205.1	233.4	261.7	274.9	288.1	289.5	291.0	276.3	261.7	242.2
72.5°	147.0	162.1	188.5	214.8	225.1	235.3	234.8	234.4	225.6	216.8	199.2
75°	112.8	124.0	144.5	165.0	173.8	182.6	184.6	186.5	178.2	169.9	160.1
77.5°	81.0	88.9	104.5	120.1	129.9	139.6	140.6	141.6	137.7	133.8	124.5
80°	57.1	59.6	69.3	79.1	89.3	99.6	101.1	102.5	98.6	94.7	88.9
82.5°	39.5	41.0	44.4	47.8	56.1	64.4	66.4	68.4	66.4	64.4	58.1
85°	23.9	24.4	25.9	27.3	31.2	35.2	37.1	39.1	38.1	37.1	33.7
87.5°	10.7	10.7	11.2	11.7	12.7	13.7	16.1	18.6	17.1	15.6	14.2
90°	17.4	14.6	11.9	9.4	7.3	5.2	3.1	1.0	3.1	5.2	7.3
92.5°	37.5	36.2	34.9	33.6	32.4	31.1	29.8	28.6	29.8	31.1	32.4
95°	67.1	65.4	63.7	62.1	60.6	59.1	57.7	56.2	57.7	59.1	60.6
97.5°	100.3	99.0	97.8	96.6	95.5	94.5	93.4	92.4	93.4	94.5	95.5
100°	137.9	136.8	135.8	134.6	133.3	132.1	130.8	129.5	130.8	132.1	133.3
102.5°	178.9	177.4	176.0	174.9	174.3	173.6	173.0	172.4	173.0	173.6	174.3
105°	220.9	219.0	217.1	216.0	215.5	215.1	214.7	214.3	214.7	215.1	215.5
107.5°	266.9	266.0	265.2	264.6	264.4	264.2	264.0	263.8	264.0	264.2	264.4
110°	312.5	312.0	311.6	311.2	310.8	310.3	309.9	309.5	309.9	310.3	310.8





TEST NUMBER: P832330

CATALOG NUMBER: S123RDIP-S775D1025U950-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	358.1	358.1	358.1	358.0	357.7	357.5	357.3	357.1	357.3	357.5	357.7
115°	406.5	406.9	407.4	407.3	406.6	406.0	405.4	404.7	405.4	406.0	406.6
117.5°	453.2	453.6	454.0	454.1	453.9	453.7	453.5	453.3	453.5	453.7	453.9
120°	501.1	502.2	503.2	503.1	501.9	500.6	499.3	498.0	499.3	500.6	501.9
122.5°	547.5	547.9	548.3	548.1	547.2	546.4	545.6	544.7	545.6	546.4	547.2
125°	594.1	594.5	595.0	594.9	594.2	593.6	593.0	592.3	593.0	593.6	594.2
127.5°	640.8	641.2	641.6	641.2	639.9	638.7	637.4	636.1	637.4	638.7	639.9
130°	686.0	686.6	687.2	686.7	685.0	683.3	681.6	679.9	681.6	683.3	685.0
132.5°	730.3	730.7	731.1	730.5	728.8	727.1	725.4	723.7	725.4	727.1	728.8
135°	773.7	773.9	774.1	773.6	772.3	771.0	769.8	768.5	769.8	771.0	772.3
137.5°	815.8	815.2	814.5	813.7	812.6	811.6	810.5	809.4	810.5	811.6	812.6
140°	857.6	857.4	857.2	856.5	855.5	854.4	853.4	852.3	853.4	854.4	855.5
142.5°	897.2	896.7	896.3	895.6	894.5	893.5	892.4	891.3	892.4	893.5	894.5
145°	935.8	935.1	934.5	934.0	933.6	933.1	932.7	932.3	932.7	933.1	933.6
147.5°	972.9	972.3	971.7	970.9	970.1	969.2	968.4	967.5	968.4	969.2	970.1
150°	1007.6	1007.2	1006.8	1006.4	1005.9	1005.5	1005.1	1004.7	1005.1	1005.5	1005.9
152.5°	1038.5	1038.3	1038.1	1037.7	1037.0	1036.4	1035.8	1035.1	1035.8	1036.4	1037.0
155°	1068.0	1067.8	1067.6	1067.5	1067.5	1067.5	1067.5	1067.5	1067.5	1067.5	1067.5
157.5°	1094.7	1094.5	1094.3	1094.3	1094.5	1094.7	1094.9	1095.1	1094.9	1094.7	1094.5
160°	1118.9	1118.9	1118.9	1119.2	1119.6	1120.0	1120.4	1120.8	1120.4	1120.0	1119.6
162.5°	1141.4	1141.2	1141.0	1141.2	1141.8	1142.4	1143.1	1143.7	1143.1	1142.4	1141.8
165°	1159.9	1159.9	1159.9	1160.2	1160.8	1161.5	1162.1	1162.7	1162.1	1161.5	1160.8
167.5°	1175.7	1175.4	1175.2	1175.5	1176.4	1177.2	1178.1	1178.9	1178.1	1177.2	1176.4
170°	1188.5	1188.5	1188.5	1188.9	1189.7	1190.6	1191.4	1192.3	1191.4	1190.6	1189.7
172.5°	1198.9	1198.9	1198.9	1199.4	1200.2	1201.1	1201.9	1202.7	1201.9	1201.1	1200.2
175°	1205.6	1205.6	1205.6	1206.0	1206.9	1207.7	1208.6	1209.4	1208.6	1207.7	1206.9
177.5°	1209.4	1209.4	1209.4	1209.8	1210.7	1211.5	1212.4	1213.2	1212.4	1211.5	1210.7
180°	1212.3	1212.3	1212.3	1212.3	1212.3	1212.3	1212.3	1212.3	1212.3	1212.3	1212.3



TEST NUMBER: P832330

CATALOG NUMBER: S123RDIP-S775D1025U950-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2381.6	2381.6	2381.6	2381.6	2381.6	2381.6	2381.6	2381.6	2381.6	2381.6	2381.6
2.5°	2305.5	2277.6	2249.8	2229.8	2209.8	2184.9	2160.0	2159.0	2158.0	2139.5	2120.9
5°	2168.8	2120.4	2072.1	2024.7	1977.4	1930.0	1882.7	1871.9	1861.2	1845.1	1828.9
7.5°	2047.7	1970.5	1893.4	1832.9	1772.3	1725.0	1677.6	1645.4	1613.1	1588.2	1563.3
10°	1917.8	1822.1	1726.4	1653.2	1579.9	1528.7	1477.4	1440.3	1403.2	1385.6	1368.0
12.5°	1783.1	1679.1	1575.1	1503.3	1431.5	1370.0	1308.5	1274.8	1241.1	1216.7	1192.3
15°	1659.0	1547.2	1435.4	1359.3	1283.1	1225.5	1167.9	1134.2	1100.5	1076.1	1051.7
17.5°	1538.9	1426.1	1313.4	1236.2	1159.1	1106.8	1054.6	1021.9	989.2	974.0	958.9
20°	1429.6	1315.8	1202.0	1129.3	1056.6	1005.3	954.0	936.4	918.9	904.7	890.5
22.5°	1321.2	1211.8	1102.4	1032.6	962.8	925.7	888.6	874.4	860.3	849.5	838.8
25°	1230.4	1121.5	1012.6	951.6	890.5	861.7	832.9	823.7	814.4	803.6	792.9
27.5°	1138.6	1035.1	931.6	882.7	833.9	810.5	787.0	775.3	763.6	754.8	746.0
30°	1057.5	961.8	866.1	825.6	785.1	764.6	744.1	731.4	718.7	710.4	702.1
32.5°	979.4	894.5	809.5	774.8	740.2	720.2	700.1	687.9	675.7	666.0	656.2
35°	907.1	833.4	759.7	728.0	696.2	676.2	656.2	644.0	631.8	622.0	612.3
37.5°	843.7	776.8	709.9	680.1	650.3	632.8	615.2	602.5	589.8	579.5	569.3
40°	784.1	725.0	666.0	637.2	608.3	589.3	570.3	559.0	547.8	538.5	529.3
42.5°	731.4	677.2	623.0	594.7	566.4	548.3	530.2	517.0	503.9	498.5	493.1
45°	675.7	627.9	580.0	552.7	525.3	506.3	487.3	476.0	464.8	459.9	455.0
47.5°	626.9	582.5	538.0	511.2	484.3	467.2	450.2	441.4	432.6	425.7	418.9
50°	579.1	536.1	493.1	467.2	441.4	426.7	412.1	401.3	390.6	385.7	380.8
52.5°	533.2	494.1	455.0	428.7	402.3	388.2	374.0	364.7	355.4	345.2	334.9
55°	481.4	447.2	413.1	389.6	366.2	351.5	336.9	326.1	315.4	304.7	293.9
57.5°	438.4	404.8	371.1	350.1	329.1	314.9	300.8	289.0	277.3	268.5	259.7
60°	391.6	362.3	333.0	312.5	292.0	278.3	264.6	253.4	242.2	237.8	233.4
62.5°	347.6	320.3	292.9	274.9	256.8	243.6	230.4	223.1	215.8	212.9	209.9
65°	302.7	279.3	255.8	239.2	222.6	211.4	200.2	196.8	193.3	190.9	188.5
67.5°	260.7	240.7	220.7	206.0	191.4	183.6	175.8	171.9	168.0	165.0	162.1
70°	222.6	205.1	187.5	174.8	162.1	154.8	147.4	144.0	140.6	135.2	129.9
72.5°	181.6	168.0	154.3	144.5	134.8	128.4	122.1	115.2	108.4	103.5	98.6
75°	150.4	136.7	123.0	113.8	104.5	97.2	89.8	87.4	85.0	83.5	82.0
77.5°	115.2	103.5	91.8	84.5	77.1	73.7	70.3	68.8	67.4	66.9	66.4
80°	83.0	73.2	63.5	59.6	55.7	54.7	53.7	52.7	51.8	51.3	50.8
82.5°	51.8	46.9	42.0	41.0	40.0	39.5	39.1	38.6	38.1	37.6	37.1
85°	30.3	28.3	26.4	25.9	25.4	24.9	24.4	24.4	24.4	24.4	24.4
87.5°	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.2	11.7
90°	9.4	11.9	14.6	17.4	20.1	22.9	23.7	24.5	25.4	26.2	26.9
92.5°	33.6	34.9	36.2	37.5	38.7	40.0	40.6	41.3	41.9	42.5	42.6
95°	62.1	63.7	65.4	67.1	68.8	70.5	71.3	72.2	73.0	73.9	74.3
97.5°	96.6	97.8	99.0	100.3	101.6	102.8	103.9	105.0	106.0	107.1	107.5
100°	134.6	135.8	136.8	137.9	138.9	140.0	140.6	141.3	141.9	142.5	143.1
102.5°	174.9	176.0	177.4	178.9	180.4	181.9	182.5	183.2	183.8	184.4	184.6
105°	216.0	217.1	219.0	220.9	222.8	224.7	224.7	224.7	224.7	224.7	225.0
107.5°	264.6	265.2	266.0	266.9	267.7	268.5	269.2	269.8	270.5	271.1	271.3
110°	311.2	311.6	312.0	312.5	312.9	313.3	314.2	315.0	315.8	316.7	316.9



TEST NUMBER: P832330

CATALOG NUMBER: S123RDIP-S775D1025U950-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	358.0	358.1	358.1	358.1	358.1	358.1	359.1	360.2	361.2	362.3	362.8
115°	407.3	407.4	406.9	406.5	406.1	405.7	405.9	406.1	406.3	406.5	406.5
117.5°	454.1	454.0	453.6	453.2	452.8	452.3	452.3	452.3	452.3	452.3	452.0
120°	503.1	503.2	502.2	501.1	500.1	499.0	498.8	498.6	498.4	498.2	497.8
122.5°	548.1	548.3	547.9	547.5	547.0	546.6	546.0	545.3	544.7	544.1	543.4
125°	594.9	595.0	594.5	594.1	593.7	593.3	592.4	591.6	590.7	589.9	589.0
127.5°	641.2	641.6	641.2	640.8	640.4	639.9	638.7	637.4	636.1	634.9	633.8
130°	686.7	687.2	686.6	686.0	685.3	684.7	683.9	683.0	682.2	681.3	680.1
132.5°	730.5	731.1	730.7	730.3	729.9	729.5	728.4	727.3	726.3	725.2	724.2
135°	773.6	774.1	773.9	773.7	773.5	773.3	772.4	771.6	770.7	769.9	769.2
137.5°	813.7	814.5	815.2	815.8	816.4	817.1	816.0	814.9	813.9	812.8	812.0
140°	856.5	857.2	857.4	857.6	857.8	858.0	857.8	857.6	857.4	857.2	856.3
142.5°	895.6	896.3	896.7	897.2	897.6	898.0	897.8	897.6	897.4	897.2	896.5
145°	934.0	934.5	935.1	935.8	936.4	937.1	936.8	936.6	936.4	936.2	935.7
147.5°	970.9	971.7	972.3	972.9	973.6	974.2	974.2	974.2	974.2	974.2	973.6
150°	1006.4	1006.8	1007.2	1007.6	1008.1	1008.5	1008.5	1008.5	1008.5	1008.5	1007.8
152.5°	1037.7	1038.1	1038.3	1038.5	1038.7	1038.9	1039.4	1039.8	1040.2	1040.6	1040.3
155°	1067.5	1067.6	1067.8	1068.0	1068.3	1068.5	1069.3	1070.2	1071.0	1071.9	1071.5
157.5°	1094.3	1094.3	1094.5	1094.7	1094.9	1095.1	1096.0	1096.8	1097.7	1098.5	1098.3
160°	1119.2	1118.9	1118.9	1118.9	1118.9	1118.9	1120.0	1121.1	1122.1	1123.2	1123.3
162.5°	1141.2	1141.0	1141.2	1141.4	1141.6	1141.8	1142.9	1143.9	1145.0	1146.0	1145.8
165°	1160.2	1159.9	1159.9	1159.9	1159.9	1159.9	1161.2	1162.4	1163.7	1165.0	1164.9
167.5°	1175.5	1175.2	1175.4	1175.7	1175.9	1176.1	1177.3	1178.6	1179.9	1181.2	1181.2
170°	1188.9	1188.5	1188.5	1188.5	1188.5	1188.5	1189.9	1191.4	1192.9	1194.4	1194.4
172.5°	1199.4	1198.9	1198.9	1198.9	1198.9	1198.9	1200.2	1201.5	1202.7	1204.0	1203.9
175°	1206.0	1205.6	1205.6	1205.6	1205.6	1205.6	1206.9	1208.1	1209.4	1210.7	1210.6
177.5°	1209.8	1209.4	1209.4	1209.4	1209.4	1209.4	1210.7	1211.9	1213.2	1214.5	1214.4
180°	1212.3	1212.3	1212.3	1212.3	1212.3	1212.3	1212.3	1212.3	1212.3	1212.3	1212.3



TEST NUMBER: P832330

CATALOG NUMBER: S123RDIP-S775D1025U950-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	2381.6	2381.6	2381.6	2381.6
2.5°	2116.0	2111.1	2109.2	2107.2
5°	1813.8	1798.7	1795.3	1791.8
7.5°	1557.0	1550.7	1529.7	1508.7
10°	1348.5	1329.0	1320.2	1311.4
12.5°	1174.2	1156.2	1153.2	1150.3
15°	1039.0	1026.3	1021.9	1017.5
17.5°	950.1	941.3	936.0	930.6
20°	884.2	877.9	873.9	870.0
22.5°	833.9	829.0	826.1	823.2
25°	785.6	778.3	775.8	773.4
27.5°	739.7	733.3	730.9	728.5
30°	696.7	691.3	687.9	684.5
32.5°	649.8	643.5	641.5	639.6
35°	608.3	604.4	602.5	600.5
37.5°	564.4	559.5	556.6	553.7
40°	526.8	524.4	522.9	521.4
42.5°	488.7	484.3	483.8	483.4
45°	450.6	446.3	445.3	444.3
47.5°	415.0	411.1	410.6	410.1
50°	375.5	370.1	366.2	362.3
52.5°	330.1	325.2	321.8	318.3
55°	288.5	283.2	280.2	277.3
57.5°	257.3	254.9	253.4	251.9
60°	231.9	230.4	229.5	228.5
62.5°	208.5	207.0	207.0	207.0
65°	187.0	185.5	184.1	182.6
67.5°	159.2	156.2	155.7	155.3
70°	125.5	121.1	120.6	120.1
72.5°	98.1	97.6	96.7	95.7
75°	81.0	80.1	80.1	80.1
77.5°	65.4	64.4	64.4	64.4
80°	50.3	49.8	50.3	50.8
82.5°	37.1	37.1	36.6	36.1
85°	23.9	23.4	23.4	23.4
87.5°	11.7	11.7	11.7	11.7
90°	27.3	27.7	28.1	28.6
92.5°	42.2	41.8	41.4	40.9
95°	74.3	74.3	74.3	74.3
97.5°	107.3	107.1	106.9	106.7
100°	143.5	143.9	144.3	144.7
102.5°	184.4	184.2	184.0	183.8
105°	225.4	225.8	226.2	226.6
107.5°	271.1	270.9	270.7	270.5
110°	316.5	316.1	315.6	315.2



TEST NUMBER: P832330

CATALOG NUMBER: S123RDIP-S775D1025U950-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
112.5°	362.8	362.8	362.8	362.8
115°	406.3	406.1	405.9	405.7
117.5°	451.4	450.8	450.1	449.5
120°	497.4	497.0	496.6	496.1
122.5°	542.8	542.2	541.5	540.9
125°	588.2	587.4	586.5	585.7
127.5°	633.0	632.1	631.3	630.4
130°	678.7	677.2	675.7	674.2
132.5°	723.1	722.0	721.0	719.9
135°	768.8	768.4	768.0	767.5
137.5°	811.4	810.7	810.1	809.4
140°	854.8	853.4	851.9	850.4
142.5°	895.5	894.4	893.4	892.3
145°	934.8	934.0	933.1	932.3
147.5°	972.3	971.0	969.7	968.5
150°	1006.6	1005.3	1004.0	1002.8
152.5°	1039.3	1038.2	1037.2	1036.1
155°	1070.1	1068.6	1067.1	1065.6
157.5°	1097.0	1095.8	1094.5	1093.2
160°	1122.4	1121.6	1120.7	1119.9
162.5°	1144.3	1142.9	1141.4	1139.9
165°	1163.4	1161.9	1160.4	1158.9
167.5°	1179.9	1178.6	1177.3	1176.1
170°	1192.9	1191.4	1189.9	1188.5
172.5°	1202.4	1200.9	1199.5	1198.0
175°	1209.1	1207.6	1206.1	1204.6
177.5°	1212.9	1211.4	1209.9	1208.5
180°	1212.3	1212.3	1212.3	1212.3



TEST NUMBER: P832330

CATALOG NUMBER: S123RDIP-S775D1025U950-4F0-1E-UDD-G1

**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	11.87	12.67	12.85	13.65	14.95	16.53	17.33	17.52	18.32	19.61
	3H	13.09	13.80	14.08	14.80	16.11	18.03	18.74	19.02	19.74	21.06
	4H	13.47	14.14	14.47	15.14	16.47	18.52	19.19	19.53	20.19	21.52
	6H	13.75	14.37	14.76	15.37	16.71	18.83	19.45	19.85	20.45	21.79
	8H	13.83	14.42	14.86	15.44	16.78	18.91	19.50	19.93	20.52	21.85
	12H	13.89	14.44	14.91	15.46	16.82	18.94	19.50	19.96	20.51	21.87
4H	2H	12.59	13.26	13.60	14.26	15.59	16.53	17.20	17.54	18.20	19.52
	3H	13.95	14.51	14.97	15.54	16.88	18.18	18.74	19.20	19.77	21.11
	4H	14.41	14.92	15.44	15.94	17.30	18.79	19.30	19.81	20.32	21.68
	6H	14.77	15.21	15.81	16.26	17.62	19.22	19.66	20.26	20.70	22.06
	8H	14.90	15.31	15.94	16.34	17.72	19.35	19.76	20.39	20.80	22.17
	12H	14.97	15.34	16.03	16.39	17.77	19.41	19.78	20.47	20.83	22.21
8H	4H	14.72	15.13	15.76	16.17	17.54	18.75	19.16	19.79	20.20	21.57
	6H	15.18	15.52	16.24	16.60	17.97	19.25	19.58	20.31	20.66	22.03
	8H	15.38	15.67	16.45	16.74	18.13	19.43	19.73	20.50	20.79	22.18
	12H	15.52	15.78	16.59	16.83	18.27	19.55	19.81	20.62	20.86	22.30
12H	4H	14.73	15.10	15.79	16.15	17.53	18.70	19.07	19.75	20.12	21.50
	6H	15.24	15.54	16.31	16.60	17.99	19.22	19.52	20.29	20.58	21.97
	8H	15.46	15.72	16.53	16.78	18.21	19.41	19.67	20.48	20.73	22.16