

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: P832327

Luminaire Tested: S123RDIP-S775D1025U940-4F0-1E-UDD-G1

Issue Date: 05/03/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P832327  
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-S775D1025U940-4F0-1E-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: -

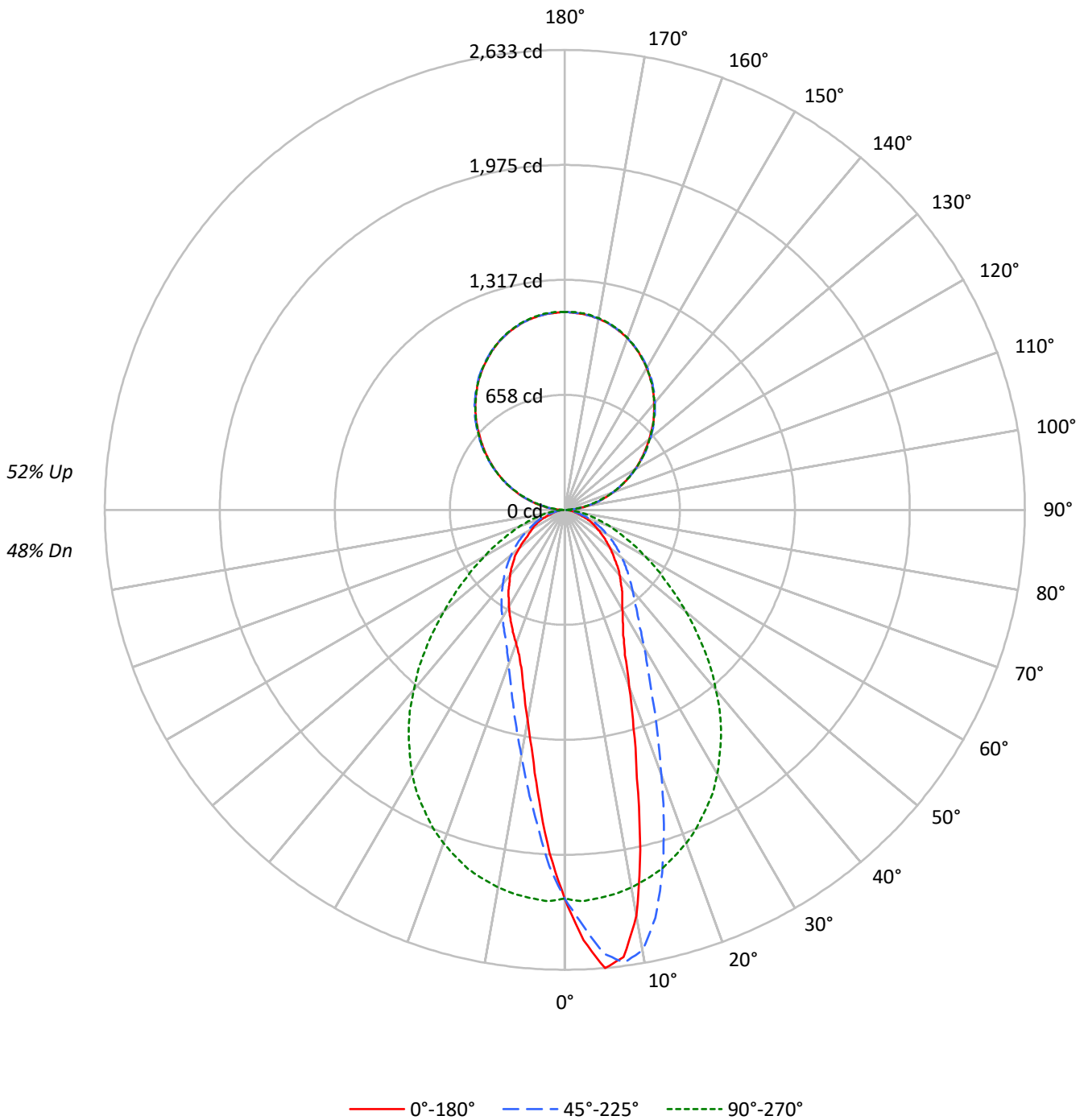
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6093.5 lumens  
Efficiency: N/A  
Efficacy: 117.6 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

TEST NUMBER: P832327

CATALOG NUMBER: S123RDIP-S775D1025U940-4F0-1E-UDD-G1

### Luminous Intensity Polar Plot





TEST NUMBER: P832327

CATALOG NUMBER: S123RDIP-S775D1025U940-4F0-1E-UDD-G1

**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°	23962	23962	23962	23962	23962
5°	28452	27544	24113	19492	18096
10°	25778	27977	23992	15618	13398
15°	17748	23989	23739	12765	10599
20°	12347	18468	23262	10763	9315
25°	9409	14076	22569	9567	8586
30°	8191	11253	21701	8883	7952
35°	7520	9493	20473	8306	7376
40°	6861	8477	18865	7739	6849
45°	6197	7753	17131	7203	6322
50°	5625	7154	15086	6680	5670
55°	5088	6568	13120	6167	4864
60°	4560	5974	11397	5599	4598
65°	4208	5300	9811	5033	4348
70°	3418	4582	8560	4554	3534
75°	2999	3643	7249	3776	3111
80°	2715	3081	5938	3168	2944
85°	2482	2705	4508	2878	2705

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 80°  
 Vertical Angle: 45°  
 Luminance: 18077 cd/sqm



TEST NUMBER: P832327

CATALOG NUMBER: S123RDIP-S775D1025U940-4F0-1E-UDD-G1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.9	3.3
10°-20°	469.5	7.7
20°-30°	538.7	8.8
30°-40°	531.0	8.7
40°-50°	468.3	7.7
50°-60°	360.2	5.9
60°-70°	236.8	3.9
70°-80°	115.0	1.9
80°-90°	31.4	0.5
90°-100°	72.9	1.2
100°-110°	220.8	3.6
110°-120°	375.8	6.2
120°-130°	494.4	8.1
130°-140°	555.8	9.1
140°-150°	546.4	9.0
150°-160°	460.0	7.5
160°-170°	306.2	5.0
170°-180°	107.2	1.8
0°-30°	1211.1	19.9
0°-40°	1742.1	28.6
0°-60°	2570.6	42.2
0°-90°	2953.9	48.5
90°-120°	669.6	11.0
90°-150°	2266.1	37.2
90°-180°	3140.0	51.5
0°-180°	6093.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2226	2226	2226	2226	2226	
5°	2633	2549	2232	1804	1675	241
15°	1593	2153	2130	1146	951	450
25°	792	1185	1900	806	723	374
35°	572	722	1558	632	561	357
45°	407	509	1125	473	415	316
55°	271	350	699	329	259	243
65°	165	208	385	198	171	162
75°	72	88	174	91	75	78
85°	20	22	36	23	22	21
90°	27	21	1	21	27	14
95°	69	66	52	66	69	70
105°	212	210	200	210	212	225
115°	379	379	378	379	379	376
125°	547	554	554	554	547	490
135°	717	723	718	723	717	552
145°	871	876	871	876	871	544
155°	996	999	998	999	996	459
165°	1083	1084	1087	1084	1083	306
175°	1126	1127	1130	1127	1126	107
180°	1133	1133	1133	1133	1133	



TEST NUMBER: P832327

CATALOG NUMBER: S123RDIP-S775D1025U940-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2226.1	2226.1	2226.1	2226.1	2226.1	2226.1	2226.1	2226.1	2226.1	2226.1	2226.1
2.5°	2467.1	2459.3	2451.6	2449.3	2447.0	2439.7	2432.4	2416.0	2399.5	2382.7	2365.8
5°	2633.2	2634.1	2635.0	2632.7	2630.5	2620.9	2611.3	2591.2	2571.1	2549.2	2527.3
7.5°	2582.1	2596.7	2611.3	2614.0	2616.8	2624.1	2631.4	2626.8	2622.3	2614.0	2605.8
10°	2358.5	2357.6	2356.6	2373.1	2389.5	2438.3	2487.2	2512.3	2537.4	2559.7	2582.1
12.5°	1993.4	1994.8	1996.1	2050.0	2103.8	2149.9	2196.0	2259.9	2323.8	2392.7	2461.6
15°	1592.7	1615.1	1637.4	1685.3	1733.3	1802.6	1872.0	1957.8	2043.6	2152.7	2261.7
17.5°	1307.9	1317.5	1327.1	1373.2	1419.3	1485.0	1550.7	1647.9	1745.1	1885.7	2026.2
20°	1077.9	1086.6	1095.3	1128.6	1161.9	1224.9	1287.9	1380.5	1473.1	1612.3	1751.5
22.5°	899.9	916.8	933.7	956.1	978.4	1024.1	1069.7	1164.2	1258.6	1385.5	1512.4
25°	792.2	800.0	807.8	826.9	846.1	889.9	933.7	996.2	1058.8	1185.2	1311.6
27.5°	719.2	721.5	723.8	737.9	752.1	780.4	808.7	866.6	924.6	1028.6	1132.7
30°	659.0	663.1	667.2	678.2	689.1	709.6	730.2	771.3	812.3	905.4	998.5
32.5°	612.4	614.7	617.0	626.1	635.3	650.3	665.4	697.8	730.2	801.4	872.6
35°	572.3	572.7	573.2	580.0	586.9	601.5	616.1	643.0	669.9	722.4	774.9
37.5°	526.6	529.8	533.0	538.0	543.1	555.8	568.6	590.5	612.4	655.8	699.1
40°	488.3	491.0	493.8	499.7	505.6	515.7	525.7	545.8	565.9	603.3	640.7
42.5°	450.0	451.8	453.6	459.6	465.5	477.8	490.1	506.1	522.1	553.1	584.1
45°	407.1	411.6	416.2	422.6	429.0	439.5	450.0	466.4	482.8	509.3	535.8
47.5°	371.5	373.8	376.0	381.5	387.0	399.8	412.6	427.2	441.8	466.4	491.0
50°	335.9	336.8	337.7	342.7	347.7	359.2	370.6	387.5	404.3	427.2	450.0
52.5°	302.1	304.4	306.7	311.7	316.7	324.5	332.2	349.6	366.9	389.3	411.6
55°	271.1	272.4	273.8	277.5	281.1	290.2	299.4	314.4	329.5	350.0	370.6
57.5°	241.9	243.7	245.5	248.3	251.0	259.2	267.4	280.7	293.9	314.4	335.0
60°	211.8	214.0	216.3	219.5	222.7	229.1	235.5	247.3	259.2	277.5	295.7
62.5°	189.8	190.3	190.8	193.5	196.2	200.8	205.4	214.9	224.5	242.8	261.0
65°	165.2	166.6	167.9	169.3	170.7	174.3	178.0	186.2	194.4	208.1	221.8
67.5°	139.6	141.0	142.4	144.7	146.9	150.1	153.3	158.8	164.3	177.1	189.8
70°	108.6	108.6	108.6	112.3	115.9	121.4	126.9	131.0	135.1	145.6	156.1
72.5°	88.5	89.0	89.4	89.9	90.4	93.6	96.7	103.6	110.4	116.8	123.2
75°	72.1	72.6	73.0	73.5	73.9	74.8	75.8	78.0	80.3	87.6	94.9
77.5°	57.5	58.0	58.4	58.9	59.3	60.2	61.2	62.1	63.0	65.7	68.5
80°	43.8	44.3	44.7	45.2	45.6	46.1	46.5	47.5	48.4	49.7	51.1
82.5°	31.9	31.9	31.9	31.9	31.9	32.9	33.8	33.8	33.8	34.7	35.6
85°	20.1	20.1	20.1	20.5	21.0	21.0	21.0	21.4	21.9	21.9	21.9
87.5°	9.1	8.7	8.2	8.7	9.1	9.1	9.1	9.6	10.0	10.0	10.0
90°	26.7	26.3	25.9	25.5	25.1	24.5	23.7	22.9	22.2	21.4	18.8
92.5°	38.3	38.7	39.1	39.5	39.9	39.8	39.2	38.6	38.0	37.4	36.2
95°	69.4	69.4	69.4	69.4	69.4	69.0	68.2	67.5	66.7	65.9	64.3
97.5°	99.7	99.9	100.1	100.3	100.5	100.1	99.1	98.1	97.1	96.1	94.9
100°	135.3	134.9	134.5	134.1	133.7	133.2	132.6	132.0	131.4	130.8	129.9
102.5°	171.8	172.0	172.2	172.4	172.6	172.4	171.8	171.2	170.6	170.0	168.6
105°	211.8	211.5	211.1	210.7	210.3	210.1	210.1	210.1	210.1	210.1	208.3
107.5°	252.8	253.0	253.2	253.4	253.6	253.4	252.8	252.2	251.6	251.0	250.2
110°	294.6	295.0	295.4	295.8	296.2	296.0	295.2	294.4	293.6	292.8	292.5



TEST NUMBER: P832327

CATALOG NUMBER: S123RDIP-S775D1025U940-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	339.1	339.1	339.1	339.1	339.1	338.6	337.6	336.7	335.7	334.7	334.7
115°	379.2	379.4	379.6	379.8	380.0	380.0	379.8	379.6	379.4	379.2	379.6
117.5°	420.1	420.7	421.3	421.9	422.5	422.8	422.8	422.8	422.8	422.8	423.2
120°	463.7	464.1	464.5	464.9	465.3	465.6	465.8	466.0	466.2	466.4	467.4
122.5°	505.6	506.2	506.8	507.4	508.0	508.6	509.1	509.7	510.3	510.9	511.3
125°	547.4	548.2	549.0	549.8	550.6	551.4	552.2	553.0	553.7	554.5	554.9
127.5°	589.3	590.0	590.8	591.6	592.4	593.4	594.6	595.8	597.0	598.2	598.6
130°	630.2	631.6	633.0	634.4	635.7	636.8	637.6	638.4	639.2	640.0	640.6
132.5°	672.9	673.9	674.9	675.9	676.9	677.9	678.9	679.8	680.8	681.8	682.2
135°	717.4	717.8	718.2	718.6	719.0	719.6	720.4	721.2	722.0	722.8	723.0
137.5°	756.6	757.2	757.8	758.4	759.0	759.8	760.7	761.7	762.7	763.7	763.1
140°	794.9	796.3	797.6	799.0	800.4	801.2	801.4	801.6	801.8	802.0	801.8
142.5°	834.0	835.0	836.0	837.0	838.0	838.6	838.8	839.0	839.2	839.4	839.0
145°	871.4	872.2	873.0	873.8	874.6	875.1	875.3	875.5	875.7	875.9	875.3
147.5°	905.2	906.4	907.6	908.8	910.0	910.6	910.6	910.6	910.6	910.6	910.0
150°	937.3	938.5	939.7	940.8	942.0	942.6	942.6	942.6	942.6	942.6	942.2
152.5°	968.4	969.4	970.4	971.4	972.4	972.7	972.3	971.9	971.5	971.1	970.9
155°	996.0	997.4	998.8	1000.2	1001.6	1001.9	1001.1	1000.3	999.5	998.7	998.5
157.5°	1021.8	1023.0	1024.2	1025.4	1026.6	1026.8	1026.0	1025.2	1024.4	1023.6	1023.4
160°	1046.8	1047.6	1048.4	1049.1	1049.9	1049.8	1048.8	1047.9	1046.9	1045.9	1045.9
162.5°	1065.5	1066.8	1068.2	1069.6	1071.0	1071.2	1070.2	1069.2	1068.2	1067.2	1067.0
165°	1083.3	1084.7	1086.0	1087.4	1088.8	1088.9	1087.7	1086.5	1085.3	1084.2	1084.2
167.5°	1099.3	1100.5	1101.7	1102.8	1104.0	1104.0	1102.8	1101.7	1100.5	1099.3	1099.1
170°	1110.9	1112.2	1113.6	1115.0	1116.4	1116.4	1115.0	1113.6	1112.2	1110.9	1110.9
172.5°	1119.8	1121.1	1122.5	1123.9	1125.3	1125.4	1124.2	1123.0	1121.8	1120.7	1120.7
175°	1126.0	1127.4	1128.8	1130.1	1131.5	1131.6	1130.4	1129.3	1128.1	1126.9	1126.9
177.5°	1129.6	1130.9	1132.3	1133.7	1135.1	1135.2	1134.0	1132.8	1131.6	1130.4	1130.4
180°	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1



TEST NUMBER: P832327

CATALOG NUMBER: S123RDIP-S775D1025U940-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2226.1	2226.1	2226.1	2226.1	2226.1	2226.1	2226.1	2226.1	2226.1	2226.1	2226.1
2.5°	2363.5	2361.2	2339.3	2317.4	2296.0	2274.5	2258.5	2242.6	2215.6	2188.7	2171.8
5°	2510.0	2492.6	2458.0	2423.3	2371.3	2319.2	2275.4	2231.6	2175.9	2120.3	2073.7
7.5°	2591.7	2577.5	2535.5	2493.6	2424.6	2355.7	2287.3	2218.8	2136.7	2054.5	1984.3
10°	2594.0	2605.8	2571.1	2536.5	2458.9	2381.3	2288.2	2195.1	2084.7	1974.2	1883.4
12.5°	2512.7	2563.8	2556.5	2549.2	2470.3	2391.3	2278.2	2165.0	2029.4	1893.9	1780.3
15°	2360.8	2459.8	2489.0	2518.2	2452.9	2387.7	2259.0	2130.3	1971.0	1811.8	1681.2
17.5°	2165.0	2303.7	2380.8	2458.0	2410.5	2363.0	2222.0	2081.0	1901.7	1722.3	1580.4
20°	1933.1	2114.8	2235.7	2356.6	2339.3	2322.0	2176.4	2030.8	1837.3	1643.8	1490.0
22.5°	1704.1	1895.7	2062.8	2229.8	2247.6	2265.4	2118.4	1971.5	1759.7	1548.0	1391.4
25°	1506.4	1701.3	1900.3	2099.3	2139.4	2179.6	2039.9	1900.3	1680.8	1461.3	1305.6
27.5°	1318.0	1503.3	1722.3	1941.4	2014.4	2087.4	1959.6	1831.8	1603.2	1374.6	1219.4
30°	1164.2	1329.8	1553.5	1777.1	1878.8	1980.6	1863.3	1746.0	1519.2	1292.4	1140.4
32.5°	1020.9	1169.2	1393.7	1618.3	1736.5	1854.7	1753.3	1652.0	1433.9	1215.7	1065.6
35°	907.7	1040.5	1250.0	1459.4	1591.8	1724.1	1641.1	1558.0	1344.9	1131.8	989.8
37.5°	810.5	921.8	1118.5	1315.2	1455.8	1596.4	1527.0	1457.6	1257.3	1056.9	922.8
40°	730.2	819.6	1002.6	1185.6	1323.4	1461.3	1401.9	1342.6	1163.3	983.9	858.4
42.5°	661.3	738.4	902.7	1067.0	1193.4	1319.8	1280.5	1241.3	1078.8	916.4	800.0
45°	600.6	665.4	810.0	954.7	1071.1	1187.5	1156.4	1125.4	985.3	845.2	738.4
47.5°	546.7	602.4	731.5	860.7	965.2	1069.7	1041.0	1012.2	896.3	780.4	683.2
50°	497.4	544.9	652.6	760.3	854.3	948.3	924.6	900.9	805.0	709.2	625.2
52.5°	450.9	490.1	586.9	683.6	759.4	835.1	816.9	798.6	724.7	650.8	574.6
55°	406.6	442.7	524.4	606.0	670.9	735.7	717.4	699.1	641.6	584.1	517.1
57.5°	366.5	397.9	464.1	530.3	581.9	633.4	624.8	616.1	568.2	520.3	465.0
60°	324.0	352.3	409.4	466.4	507.9	549.5	539.4	529.4	495.2	460.9	413.5
62.5°	286.1	311.2	356.9	402.5	436.3	470.1	462.8	455.4	429.4	403.4	364.2
65°	246.4	271.1	308.0	345.0	371.5	397.9	391.6	385.2	365.5	345.9	314.4
67.5°	210.4	230.9	262.9	294.8	312.6	330.4	326.8	323.1	308.0	293.0	268.3
70°	173.9	191.7	218.1	244.6	256.9	269.3	270.6	272.0	258.3	244.6	226.4
72.5°	137.4	151.5	176.2	200.8	210.4	220.0	219.5	219.1	210.8	202.6	186.2
75°	105.4	115.9	135.1	154.3	162.5	170.7	172.5	174.3	166.6	158.8	149.7
77.5°	75.8	83.1	97.7	112.3	121.4	130.5	131.4	132.3	128.7	125.0	116.4
80°	53.4	55.7	64.8	73.9	83.5	93.1	94.5	95.8	92.2	88.5	83.1
82.5°	37.0	38.3	41.5	44.7	52.5	60.2	62.1	63.9	62.1	60.2	54.3
85°	22.4	22.8	24.2	25.6	29.2	32.9	34.7	36.5	35.6	34.7	31.5
87.5°	10.0	10.0	10.5	11.0	11.9	12.8	15.1	17.3	16.0	14.6	13.2
90°	16.2	13.6	11.1	8.8	6.8	4.8	2.9	0.9	2.9	4.8	6.8
92.5°	35.0	33.8	32.6	31.5	30.3	29.1	27.9	26.7	27.9	29.1	30.3
95°	62.7	61.1	59.5	58.1	56.7	55.3	53.9	52.5	53.9	55.3	56.7
97.5°	93.8	92.6	91.4	90.3	89.3	88.3	87.3	86.3	87.3	88.3	89.3
100°	128.9	127.9	126.9	125.8	124.6	123.4	122.2	121.1	122.2	123.4	124.6
102.5°	167.2	165.9	164.5	163.5	162.9	162.3	161.7	161.1	161.7	162.3	162.9
105°	206.5	204.7	202.9	201.9	201.5	201.1	200.7	200.3	200.7	201.1	201.5
107.5°	249.4	248.6	247.8	247.4	247.2	247.0	246.8	246.6	246.8	247.0	247.2
110°	292.1	291.7	291.3	290.9	290.5	290.1	289.7	289.3	289.7	290.1	290.5





TEST NUMBER: P832327

CATALOG NUMBER: S123RDIP-S775D1025U940-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	334.7	334.7	334.7	334.6	334.4	334.2	334.0	333.8	334.0	334.2	334.4
115°	380.0	380.4	380.8	380.7	380.1	379.5	378.9	378.3	378.9	379.5	380.1
117.5°	423.6	424.0	424.4	424.5	424.3	424.1	423.9	423.7	423.9	424.1	424.3
120°	468.4	469.4	470.4	470.3	469.1	467.9	466.7	465.5	466.7	467.9	469.1
122.5°	511.7	512.1	512.5	512.3	511.5	510.7	509.9	509.1	509.9	510.7	511.5
125°	555.3	555.7	556.1	556.0	555.4	554.8	554.2	553.7	554.2	554.8	555.4
127.5°	598.9	599.3	599.7	599.3	598.2	597.0	595.8	594.6	595.8	597.0	598.2
130°	641.2	641.8	642.4	641.9	640.3	638.7	637.1	635.5	637.1	638.7	640.3
132.5°	682.6	683.0	683.4	682.8	681.2	679.7	678.1	676.5	678.1	679.7	681.2
135°	723.2	723.4	723.6	723.1	721.9	720.7	719.5	718.3	719.5	720.7	721.9
137.5°	762.5	761.9	761.3	760.6	759.6	758.6	757.6	756.6	757.6	758.6	759.6
140°	801.6	801.4	801.2	800.6	799.6	798.6	797.6	796.7	797.6	798.6	799.6
142.5°	838.6	838.2	837.8	837.1	836.1	835.1	834.1	833.1	834.1	835.1	836.1
145°	874.7	874.1	873.5	873.0	872.6	872.2	871.8	871.4	871.8	872.2	872.6
147.5°	909.4	908.8	908.2	907.5	906.7	905.9	905.1	904.4	905.1	905.9	906.7
150°	941.8	941.4	941.0	940.7	940.3	939.9	939.5	939.1	939.5	939.9	940.3
152.5°	970.7	970.5	970.3	969.9	969.3	968.7	968.1	967.6	968.1	968.7	969.3
155°	998.3	998.1	997.9	997.8	997.8	997.8	997.8	997.8	997.8	997.8	997.8
157.5°	1023.2	1023.0	1022.8	1022.8	1023.0	1023.2	1023.4	1023.6	1023.4	1023.2	1023.0
160°	1045.9	1045.9	1045.9	1046.1	1046.5	1046.9	1047.3	1047.7	1047.3	1046.9	1046.5
162.5°	1066.8	1066.7	1066.5	1066.7	1067.2	1067.8	1068.4	1069.0	1068.4	1067.8	1067.2
165°	1084.2	1084.2	1084.2	1084.5	1085.0	1085.6	1086.2	1086.8	1086.2	1085.6	1085.0
167.5°	1098.9	1098.7	1098.5	1098.8	1099.6	1100.4	1101.2	1102.0	1101.2	1100.4	1099.6
170°	1110.9	1110.9	1110.9	1111.3	1112.0	1112.8	1113.6	1114.4	1113.6	1112.8	1112.0
172.5°	1120.7	1120.7	1120.7	1121.0	1121.8	1122.6	1123.4	1124.2	1123.4	1122.6	1121.8
175°	1126.9	1126.9	1126.9	1127.3	1128.1	1128.9	1129.7	1130.4	1129.7	1128.9	1128.1
177.5°	1130.4	1130.4	1130.4	1130.8	1131.6	1132.4	1133.2	1134.0	1133.2	1132.4	1131.6
180°	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1



TEST NUMBER: P832327

CATALOG NUMBER: S123RDIP-S775D1025U940-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2226.1	2226.1	2226.1	2226.1	2226.1	2226.1	2226.1	2226.1	2226.1	2226.1	2226.1
2.5°	2154.9	2128.9	2102.9	2084.2	2065.5	2042.2	2018.9	2018.0	2017.1	1999.8	1982.4
5°	2027.2	1982.0	1936.8	1892.5	1848.3	1804.0	1759.7	1749.7	1739.6	1724.6	1709.5
7.5°	1914.0	1841.9	1769.8	1713.2	1656.6	1612.3	1568.1	1537.9	1507.8	1484.5	1461.3
10°	1792.6	1703.1	1613.7	1545.2	1476.8	1428.9	1380.9	1346.3	1311.6	1295.2	1278.7
12.5°	1666.6	1569.4	1472.2	1405.1	1338.1	1280.5	1223.0	1191.6	1160.1	1137.3	1114.4
15°	1550.7	1446.2	1341.7	1270.5	1199.3	1145.5	1091.6	1060.1	1028.6	1005.8	983.0
17.5°	1438.5	1333.0	1227.6	1155.5	1083.4	1034.6	985.7	955.2	924.6	910.4	896.3
20°	1336.2	1229.9	1123.6	1055.6	987.6	939.6	891.7	875.3	858.9	845.6	832.4
22.5°	1234.9	1132.7	1030.5	965.2	899.9	865.3	830.6	817.3	804.1	794.1	784.0
25°	1150.0	1048.3	946.5	889.4	832.4	805.5	778.6	769.9	761.2	751.2	741.1
27.5°	1064.2	967.5	870.7	825.1	779.5	757.6	735.7	724.7	713.7	705.5	697.3
30°	988.5	899.0	809.6	771.7	733.8	714.7	695.5	683.6	671.8	664.0	656.2
32.5°	915.5	836.1	756.6	724.2	691.8	673.1	654.4	643.0	631.6	622.5	613.3
35°	847.9	779.0	710.1	680.4	650.8	632.1	613.3	601.9	590.5	581.4	572.3
37.5°	788.6	726.1	663.5	635.7	607.9	591.4	575.0	563.1	551.3	541.7	532.1
40°	732.9	677.7	622.5	595.6	568.6	550.8	533.0	522.5	512.0	503.4	494.7
42.5°	683.6	633.0	582.3	555.8	529.4	512.5	495.6	483.3	471.0	465.9	460.9
45°	631.6	586.9	542.2	516.6	491.0	473.2	455.4	445.0	434.5	429.9	425.3
47.5°	586.0	544.4	502.9	477.8	452.7	436.7	420.8	412.6	404.3	397.9	391.6
50°	541.2	501.1	460.9	436.7	412.6	398.9	385.2	375.1	365.1	360.5	356.0
52.5°	498.3	461.8	425.3	400.7	376.0	362.8	349.6	340.9	332.2	322.6	313.1
55°	450.0	418.0	386.1	364.2	342.3	328.6	314.9	304.8	294.8	284.8	274.7
57.5°	409.8	378.3	346.8	327.2	307.6	294.4	281.1	270.2	259.2	251.0	242.8
60°	366.0	338.6	311.2	292.1	272.9	260.1	247.3	236.9	226.4	222.2	218.1
62.5°	324.9	299.4	273.8	256.9	240.0	227.7	215.4	208.6	201.7	199.0	196.2
65°	282.9	261.0	239.1	223.6	208.1	197.6	187.1	183.9	180.7	178.4	176.2
67.5°	243.7	225.0	206.3	192.6	178.9	171.6	164.3	160.6	157.0	154.3	151.5
70°	208.1	191.7	175.2	163.4	151.5	144.7	137.8	134.6	131.4	126.4	121.4
72.5°	169.8	157.0	144.2	135.1	126.0	120.0	114.1	107.7	101.3	96.7	92.2
75°	140.6	127.8	115.0	106.3	97.7	90.8	84.0	81.7	79.4	78.0	76.7
77.5°	107.7	96.7	85.8	79.0	72.1	68.9	65.7	64.3	63.0	62.5	62.1
80°	77.6	68.5	59.3	55.7	52.0	51.1	50.2	49.3	48.4	47.9	47.5
82.5°	48.4	43.8	39.2	38.3	37.4	37.0	36.5	36.1	35.6	35.1	34.7
85°	28.3	26.5	24.6	24.2	23.7	23.3	22.8	22.8	22.8	22.8	22.8
87.5°	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.4	11.0
90°	8.8	11.1	13.6	16.2	18.8	21.4	22.2	22.9	23.7	24.5	25.1
92.5°	31.5	32.6	33.8	35.0	36.2	37.4	38.0	38.6	39.2	39.8	39.9
95°	58.1	59.5	61.1	62.7	64.3	65.9	66.7	67.5	68.2	69.0	69.4
97.5°	90.3	91.4	92.6	93.8	94.9	96.1	97.1	98.1	99.1	100.1	100.5
100°	125.8	126.9	127.9	128.9	129.9	130.8	131.4	132.0	132.6	133.2	133.7
102.5°	163.5	164.5	165.9	167.2	168.6	170.0	170.6	171.2	171.8	172.4	172.6
105°	201.9	202.9	204.7	206.5	208.3	210.1	210.1	210.1	210.1	210.1	210.3
107.5°	247.4	247.8	248.6	249.4	250.2	251.0	251.6	252.2	252.8	253.4	253.6
110°	290.9	291.3	291.7	292.1	292.5	292.8	293.6	294.4	295.2	296.0	296.2



TEST NUMBER: P832327

CATALOG NUMBER: S123RDIP-S775D1025U940-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	334.6	334.7	334.7	334.7	334.7	334.7	335.7	336.7	337.6	338.6	339.1
115°	380.7	380.8	380.4	380.0	379.6	379.2	379.4	379.6	379.8	380.0	380.0
117.5°	424.5	424.4	424.0	423.6	423.2	422.8	422.8	422.8	422.8	422.8	422.5
120°	470.3	470.4	469.4	468.4	467.4	466.4	466.2	466.0	465.8	465.6	465.3
122.5°	512.3	512.5	512.1	511.7	511.3	510.9	510.3	509.7	509.1	508.6	508.0
125°	556.0	556.1	555.7	555.3	554.9	554.5	553.7	553.0	552.2	551.4	550.6
127.5°	599.3	599.7	599.3	598.9	598.6	598.2	597.0	595.8	594.6	593.4	592.4
130°	641.9	642.4	641.8	641.2	640.6	640.0	639.2	638.4	637.6	636.8	635.7
132.5°	682.8	683.4	683.0	682.6	682.2	681.8	680.8	679.8	678.9	677.9	676.9
135°	723.1	723.6	723.4	723.2	723.0	722.8	722.0	721.2	720.4	719.6	719.0
137.5°	760.6	761.3	761.9	762.5	763.1	763.7	762.7	761.7	760.7	759.8	759.0
140°	800.6	801.2	801.4	801.6	801.8	802.0	801.8	801.6	801.4	801.2	800.4
142.5°	837.1	837.8	838.2	838.6	839.0	839.4	839.2	839.0	838.8	838.6	838.0
145°	873.0	873.5	874.1	874.7	875.3	875.9	875.7	875.5	875.3	875.1	874.6
147.5°	907.5	908.2	908.8	909.4	910.0	910.6	910.6	910.6	910.6	910.6	910.0
150°	940.7	941.0	941.4	941.8	942.2	942.6	942.6	942.6	942.6	942.6	942.0
152.5°	969.9	970.3	970.5	970.7	970.9	971.1	971.5	971.9	972.3	972.7	972.4
155°	997.8	997.9	998.1	998.3	998.5	998.7	999.5	1000.3	1001.1	1001.9	1001.6
157.5°	1022.8	1022.8	1023.0	1023.2	1023.4	1023.6	1024.4	1025.2	1026.0	1026.8	1026.6
160°	1046.1	1045.9	1045.9	1045.9	1045.9	1045.9	1046.9	1047.9	1048.8	1049.8	1049.9
162.5°	1066.7	1066.5	1066.7	1066.8	1067.0	1067.2	1068.2	1069.2	1070.2	1071.2	1071.0
165°	1084.5	1084.2	1084.2	1084.2	1084.2	1084.2	1085.3	1086.5	1087.7	1088.9	1088.8
167.5°	1098.8	1098.5	1098.7	1098.9	1099.1	1099.3	1100.5	1101.7	1102.8	1104.0	1104.0
170°	1111.3	1110.9	1110.9	1110.9	1110.9	1110.9	1112.2	1113.6	1115.0	1116.4	1116.4
172.5°	1121.0	1120.7	1120.7	1120.7	1120.7	1120.7	1121.8	1123.0	1124.2	1125.4	1125.3
175°	1127.3	1126.9	1126.9	1126.9	1126.9	1126.9	1128.1	1129.3	1130.4	1131.6	1131.5
177.5°	1130.8	1130.4	1130.4	1130.4	1130.4	1130.4	1131.6	1132.8	1134.0	1135.2	1135.1
180°	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1



TEST NUMBER: P832327

CATALOG NUMBER: S123RDIP-S775D1025U940-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	2226.1	2226.1	2226.1	2226.1
2.5°	1977.9	1973.3	1971.5	1969.7
5°	1695.4	1681.2	1678.0	1674.8
7.5°	1455.3	1449.4	1429.8	1410.2
10°	1260.5	1242.2	1234.0	1225.8
12.5°	1097.5	1080.7	1077.9	1075.2
15°	971.1	959.3	955.2	951.1
17.5°	888.1	879.9	874.8	869.8
20°	826.5	820.5	816.9	813.2
22.5°	779.5	774.9	772.2	769.4
25°	734.3	727.4	725.2	722.9
27.5°	691.4	685.5	683.2	680.9
30°	651.2	646.2	643.0	639.8
32.5°	607.4	601.5	599.7	597.8
35°	568.6	565.0	563.1	561.3
37.5°	527.6	523.0	520.3	517.5
40°	492.4	490.1	488.8	487.4
42.5°	456.8	452.7	452.3	451.8
45°	421.2	417.1	416.2	415.3
47.5°	387.9	384.3	383.8	383.3
50°	350.9	345.9	342.3	338.6
52.5°	308.5	303.9	300.7	297.5
55°	269.7	264.7	262.0	259.2
57.5°	240.5	238.2	236.9	235.5
60°	216.8	215.4	214.5	213.6
62.5°	194.9	193.5	193.5	193.5
65°	174.8	173.4	172.0	170.7
67.5°	148.8	146.0	145.6	145.1
70°	117.3	113.2	112.7	112.3
72.5°	91.7	91.3	90.4	89.4
75°	75.8	74.8	74.8	74.8
77.5°	61.2	60.2	60.2	60.2
80°	47.0	46.5	47.0	47.5
82.5°	34.7	34.7	34.2	33.8
85°	22.4	21.9	21.9	21.9
87.5°	11.0	11.0	11.0	11.0
90°	25.5	25.9	26.3	26.7
92.5°	39.5	39.1	38.7	38.3
95°	69.4	69.4	69.4	69.4
97.5°	100.3	100.1	99.9	99.7
100°	134.1	134.5	134.9	135.3
102.5°	172.4	172.2	172.0	171.8
105°	210.7	211.1	211.5	211.8
107.5°	253.4	253.2	253.0	252.8
110°	295.8	295.4	295.0	294.6



TEST NUMBER: P832327

CATALOG NUMBER: S123RDIP-S775D1025U940-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
112.5°	339.1	339.1	339.1	339.1
115°	379.8	379.6	379.4	379.2
117.5°	421.9	421.3	420.7	420.1
120°	464.9	464.5	464.1	463.7
122.5°	507.4	506.8	506.2	505.6
125°	549.8	549.0	548.2	547.4
127.5°	591.6	590.8	590.0	589.3
130°	634.4	633.0	631.6	630.2
132.5°	675.9	674.9	673.9	672.9
135°	718.6	718.2	717.8	717.4
137.5°	758.4	757.8	757.2	756.6
140°	799.0	797.6	796.3	794.9
142.5°	837.0	836.0	835.0	834.0
145°	873.8	873.0	872.2	871.4
147.5°	908.8	907.6	906.4	905.2
150°	940.8	939.7	938.5	937.3
152.5°	971.4	970.4	969.4	968.4
155°	1000.2	998.8	997.4	996.0
157.5°	1025.4	1024.2	1023.0	1021.8
160°	1049.1	1048.4	1047.6	1046.8
162.5°	1069.6	1068.2	1066.8	1065.5
165°	1087.4	1086.0	1084.7	1083.3
167.5°	1102.8	1101.7	1100.5	1099.3
170°	1115.0	1113.6	1112.2	1110.9
172.5°	1123.9	1122.5	1121.1	1119.8
175°	1130.1	1128.8	1127.4	1126.0
177.5°	1133.7	1132.3	1130.9	1129.6
180°	1133.1	1133.1	1133.1	1133.1



TEST NUMBER: P832327

CATALOG NUMBER: S123RDIP-S775D1025U940-4F0-1E-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	11.64	12.43	12.62	13.42	14.72	16.30	17.10	17.28	18.08	19.38
	3H	12.85	13.57	13.85	14.56	15.88	17.80	18.51	18.79	19.50	20.82
	4H	13.24	13.91	14.24	14.91	16.24	18.28	18.96	19.29	19.96	21.28
	6H	13.52	14.13	14.53	15.14	16.48	18.60	19.21	19.61	20.22	21.56
	8H	13.60	14.19	14.62	15.21	16.55	18.67	19.26	19.69	20.28	21.62
	12H	13.65	14.21	14.68	15.22	16.58	18.70	19.26	19.73	20.28	21.64
4H	2H	12.35	13.03	13.37	14.03	15.35	16.29	16.96	17.30	17.96	19.29
	3H	13.72	14.28	14.74	15.31	16.65	17.95	18.51	18.97	19.53	20.87
	4H	14.18	14.69	15.20	15.71	17.07	18.55	19.06	19.58	20.08	21.45
	6H	14.54	14.98	15.58	16.02	17.38	18.99	19.43	20.03	20.47	21.83
	8H	14.67	15.08	15.70	16.11	17.49	19.12	19.53	20.16	20.56	21.94
	12H	14.74	15.11	15.80	16.16	17.54	19.18	19.55	20.23	20.60	21.98
8H	4H	14.49	14.90	15.53	15.93	17.31	18.52	18.93	19.55	19.96	21.34
	6H	14.95	15.29	16.01	16.37	17.74	19.01	19.35	20.07	20.43	21.80
	8H	15.14	15.44	16.21	16.50	17.89	19.20	19.49	20.27	20.56	21.95
	12H	15.28	15.54	16.35	16.60	18.03	19.31	19.57	20.38	20.63	22.06
12H	4H	14.50	14.87	15.55	15.92	17.30	18.47	18.83	19.52	19.89	21.26
	6H	15.01	15.30	16.08	16.37	17.76	18.99	19.28	20.05	20.35	21.74
	8H	15.23	15.49	16.30	16.54	17.98	19.18	19.44	20.25	20.50	21.93