

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: P832427

Luminaire Tested: S123RDIP-S775D805U927-4F0-1E-UDD-G4

Issue Date: 05/03/2024

Test Information

Test Method: LM-79-2019
Report Number: P832427
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2301-905-2, G3-1807-864-17)
Test Lab: INNOVATION CENTER
Issue Date: 05/03/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-S775D805U927-4F0-1E-UDD-G4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, GRAZE OPTIC
UPLIGHT 805 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: -

Summary

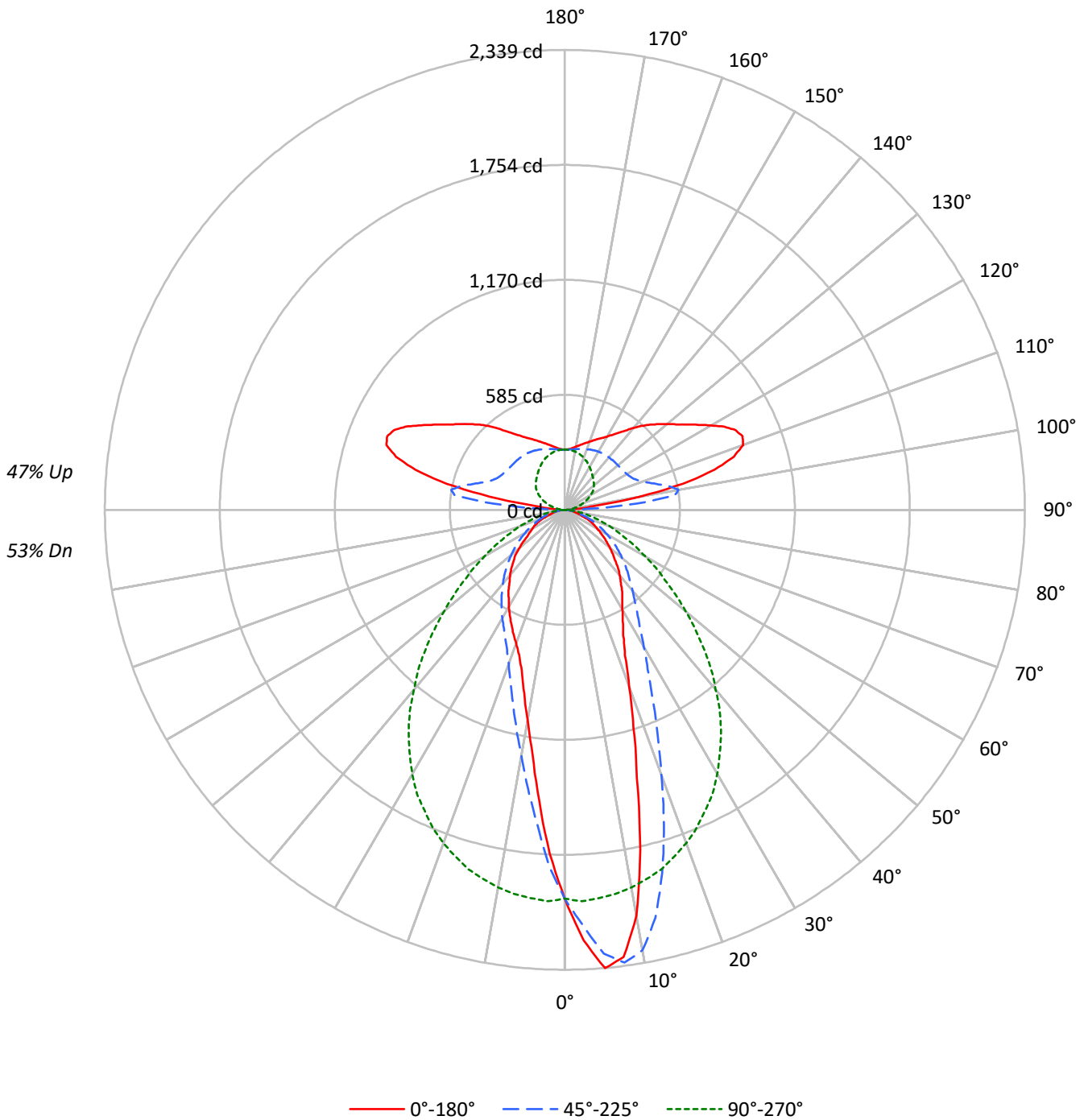
Lumens per Lamp: N/A
Luminaire Lumens: 4925.2 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 1.17 / 0.8
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 46.5
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: P832427

CATALOG NUMBER: S123RDIP-S775D805U927-4F0-1E-UDD-G4

Luminous Intensity Polar Plot





TEST NUMBER: P832427

CATALOG NUMBER: S123RDIP-S775D805U927-4F0-1E-UDD-G4

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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	53				
1	99	95	92	88	92	89	85	83	76	74	72	64	63	61	54	53	52	47				
2	91	84	79	74	84	78	74	69	68	64	61	58	55	53	48	46	45	40				
3	84	75	68	63	78	70	64	59	60	56	52	52	48	46	44	41	39	35				
4	77	67	60	54	72	63	56	51	54	49	45	47	43	40	40	37	35	31				
5	71	60	53	47	66	57	50	45	49	44	40	43	39	35	36	33	31	28				
6	66	55	47	41	61	51	44	39	45	40	36	39	35	32	33	30	28	25				
7	61	50	42	37	57	47	40	35	41	36	32	36	32	29	31	28	25	23				
8	57	46	38	33	53	43	36	32	38	33	29	33	29	26	29	26	23	21				
9	54	42	35	30	50	40	33	29	35	30	26	31	27	24	27	24	21	19				
10	50	39	32	27	47	37	30	26	33	28	24	29	25	22	25	22	20	18				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	21288	21288	21288	21288	21288
5°	25276	24470	21421	17316	16077
10°	22900	24855	21315	13874	11903
15°	15767	21311	21089	11340	9415
20°	10969	16408	20665	9562	8276
25°	8359	12505	20050	8499	7627
30°	7276	9998	19280	7891	7065
35°	6681	8433	18188	7378	6553
40°	6095	7531	16760	6875	6084
45°	5504	6888	15219	6400	5616
50°	4997	6355	13402	5933	5037
55°	4519	5836	11656	5478	4322
60°	4049	5307	10125	4975	4084
65°	3739	4709	8716	4470	3861
70°	3037	4069	7604	4044	3138
75°	2666	3236	6442	3356	2766
80°	2411	2740	5275	2814	2616
85°	2198	2408	4001	2556	2408

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 80°
 Vertical Angle: 45°
 Luminance: 16058 cd/sqm



TEST NUMBER: P832427

CATALOG NUMBER: S123RDIP-S775D805U927-4F0-1E-UDD-G4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.3	3.7
10°-20°	417.1	8.5
20°-30°	478.6	9.7
30°-40°	471.7	9.6
40°-50°	416.0	8.4
50°-60°	320.0	6.5
60°-70°	210.4	4.3
70°-80°	102.2	2.1
80°-90°	27.5	0.6
90°-100°	166.0	3.4
100°-110°	486.1	9.9
110°-120°	474.7	9.6
120°-130°	378.0	7.7
130°-140°	298.3	6.1
140°-150°	222.5	4.5
150°-160°	155.1	3.1
160°-170°	91.1	1.9
170°-180°	29.6	0.6
0°-30°	1076.0	21.8
0°-40°	1547.7	31.4
0°-60°	2283.7	46.4
0°-90°	2623.8	53.3
90°-120°	1126.8	22.9
90°-150°	2025.5	41.1
90°-180°	2301.0	46.7
0°-180°	4925.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1978	1978	1978	1978	1978	
5°	2339	2265	1982	1603	1488	214
15°	1415	1912	1892	1018	845	399
25°	704	1053	1688	716	642	332
35°	508	642	1384	562	499	317
45°	362	452	1000	420	369	281
55°	241	311	621	292	230	216
65°	147	185	342	176	152	144
75°	64	78	155	81	66	69
85°	18	20	32	21	20	19
90°	18	16	1	16	18	11
95°	72	367	21	367	72	117
105°	788	498	72	498	788	786
115°	958	381	127	381	958	934
125°	756	356	176	356	756	684
135°	612	350	207	350	612	475
145°	479	346	236	346	479	304
155°	397	335	268	335	397	185
165°	346	321	293	321	346	99
175°	312	308	305	308	312	30
180°	306	306	306	306	306	



TEST NUMBER: P832427

CATALOG NUMBER: S123RDIP-S775D805U927-4F0-1E-UDD-G4

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1977.7	1977.7	1977.7	1977.7	1977.7	1977.7	1977.7	1977.7	1977.7	1977.7	1977.7
2.5°	2191.7	2184.8	2177.9	2175.9	2173.9	2167.4	2160.9	2146.3	2131.7	2116.7	2101.7
5°	2339.3	2340.1	2340.9	2338.9	2336.9	2328.4	2319.8	2302.0	2284.2	2264.7	2245.2
7.5°	2293.9	2306.9	2319.8	2322.3	2324.7	2331.2	2337.7	2333.6	2329.6	2322.3	2315.0
10°	2095.2	2094.4	2093.6	2108.2	2122.8	2166.2	2209.6	2231.9	2254.2	2274.0	2293.9
12.5°	1770.9	1772.1	1773.3	1821.2	1869.0	1910.0	1950.9	2007.7	2064.4	2125.6	2186.9
15°	1414.9	1434.8	1454.7	1497.2	1539.8	1601.4	1663.0	1739.3	1815.5	1912.4	2009.3
17.5°	1161.9	1170.5	1179.0	1219.9	1260.9	1319.2	1377.6	1464.0	1550.3	1675.2	1800.1
20°	957.6	965.3	973.0	1002.6	1032.2	1088.2	1144.1	1226.4	1308.7	1432.4	1556.0
22.5°	799.5	814.5	829.5	849.4	869.2	909.8	950.3	1034.2	1118.2	1230.9	1343.6
25°	703.8	710.7	717.6	734.6	751.7	790.6	829.5	885.0	940.6	1052.9	1165.2
27.5°	638.9	641.0	643.0	655.6	668.1	693.3	718.4	769.9	821.4	913.8	1006.3
30°	585.4	589.1	592.7	602.5	612.2	630.4	648.7	685.2	721.7	804.4	887.1
32.5°	544.1	546.1	548.1	556.2	564.4	577.7	591.1	619.9	648.7	711.9	775.2
35°	508.4	508.8	509.2	515.3	521.4	534.3	547.3	571.2	595.2	641.8	688.4
37.5°	467.9	470.7	473.5	478.0	482.5	493.8	505.2	524.6	544.1	582.6	621.1
40°	433.8	436.2	438.7	443.9	449.2	458.1	467.0	484.9	502.7	536.0	569.2
42.5°	399.7	401.4	403.0	408.3	413.5	424.5	435.4	449.6	463.8	491.4	518.9
45°	361.6	365.7	369.7	375.4	381.1	390.4	399.7	414.3	428.9	452.5	476.0
47.5°	330.0	332.0	334.1	338.9	343.8	355.2	366.5	379.5	392.5	414.3	436.2
50°	298.4	299.2	300.0	304.5	308.9	319.1	329.2	344.2	359.2	379.5	399.7
52.5°	268.4	270.4	272.4	276.9	281.4	288.3	295.1	310.6	326.0	345.8	365.7
55°	240.8	242.0	243.3	246.5	249.7	257.8	266.0	279.3	292.7	311.0	329.2
57.5°	214.9	216.5	218.1	220.6	223.0	230.3	237.6	249.3	261.1	279.3	297.6
60°	188.1	190.1	192.2	195.0	197.8	203.5	209.2	219.7	230.3	246.5	262.7
62.5°	168.7	169.1	169.5	171.9	174.3	178.4	182.4	191.0	199.5	215.7	231.9
65°	146.8	148.0	149.2	150.4	151.6	154.9	158.1	165.4	172.7	184.9	197.0
67.5°	124.1	125.3	126.5	128.5	130.5	133.4	136.2	141.1	146.0	157.3	168.7
70°	96.5	96.5	96.5	99.7	103.0	107.8	112.7	116.4	120.0	129.3	138.7
72.5°	78.7	79.1	79.5	79.9	80.3	83.1	85.9	92.0	98.1	103.8	109.5
75°	64.1	64.5	64.9	65.3	65.7	66.5	67.3	69.3	71.4	77.8	84.3
77.5°	51.1	51.5	51.9	52.3	52.7	53.5	54.3	55.1	55.9	58.4	60.8
80°	38.9	39.3	39.7	40.1	40.5	40.9	41.4	42.2	43.0	44.2	45.4
82.5°	28.4	28.4	28.4	28.4	28.4	29.2	30.0	30.0	30.0	30.8	31.6
85°	17.8	17.8	17.8	18.2	18.6	18.6	18.6	19.1	19.5	19.5	19.5
87.5°	8.1	7.7	7.3	7.7	8.1	8.1	8.1	8.5	8.9	8.9	8.9
90°	18.0	18.6	18.0	17.3	18.0	16.7	16.1	15.5	14.9	15.5	13.6
92.5°	32.8	34.1	33.4	35.9	37.2	41.5	47.7	61.3	86.1	115.2	127.6
95°	71.8	74.3	78.7	84.2	96.0	118.3	151.1	223.0	297.9	367.3	327.0
97.5°	147.4	154.2	169.1	192.6	234.1	304.7	386.5	512.2	584.0	564.8	421.8
100°	388.3	387.7	411.9	457.1	519.6	607.6	680.0	730.2	708.5	586.5	396.4
102.5°	615.0	633.0	652.2	685.6	730.8	778.5	813.2	802.7	714.7	546.3	359.2
105°	787.8	790.9	810.7	834.3	862.7	878.8	867.1	805.1	675.7	498.0	330.1
107.5°	900.5	907.3	915.4	926.5	930.3	913.5	865.2	768.0	620.0	455.2	309.1
110°	964.9	966.2	967.4	962.5	945.1	901.8	823.7	709.8	567.9	419.9	297.9



TEST NUMBER: P832427

CATALOG NUMBER: S123RDIP-S775D805U927-4F0-1E-UDD-G4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	977.9	977.3	971.1	953.2	917.9	859.0	769.2	652.2	522.7	396.4	291.7
115°	958.1	955.0	942.6	915.4	868.9	801.4	710.4	602.6	488.0	380.9	291.1
117.5°	914.8	910.4	891.9	861.5	813.2	743.2	659.6	564.2	465.1	370.4	291.7
120°	857.8	854.1	839.2	804.5	755.6	693.0	618.7	535.1	447.8	363.6	294.2
122.5°	804.5	799.6	782.8	752.5	710.4	653.4	585.9	512.2	433.5	359.2	298.5
125°	755.6	751.3	735.8	708.5	668.9	619.3	559.9	492.4	421.8	355.5	302.9
127.5°	713.5	709.8	695.5	672.0	636.1	590.2	535.7	474.4	410.6	353.6	307.8
130°	678.8	673.8	660.8	638.5	605.7	563.6	513.4	457.7	402.0	351.8	312.8
132.5°	644.7	641.6	630.5	608.2	577.8	538.2	492.4	442.2	393.9	351.2	316.5
135°	612.5	608.2	597.0	578.5	548.1	512.8	472.6	428.6	387.1	350.5	320.2
137.5°	578.5	574.8	565.5	546.3	520.2	488.7	452.7	415.6	380.9	349.3	322.7
140°	542.5	543.2	533.3	515.9	492.4	465.7	436.0	404.4	375.3	348.7	325.2
142.5°	509.1	509.7	501.0	486.2	467.0	444.7	419.9	393.9	370.4	347.5	327.0
145°	478.8	477.5	472.6	459.6	444.1	426.1	406.3	385.9	366.0	346.2	327.6
147.5°	452.7	452.1	447.2	437.9	425.5	412.5	395.8	379.0	361.7	344.4	327.6
150°	430.4	430.4	426.7	419.9	410.6	398.9	385.9	371.6	357.4	341.9	327.6
152.5°	411.9	411.9	410.0	403.8	397.0	387.7	376.6	364.8	352.4	338.8	325.8
155°	397.0	396.4	395.1	390.2	384.6	377.2	367.9	358.0	347.5	335.1	324.5
157.5°	382.8	382.8	381.5	377.8	372.8	366.7	359.2	350.5	341.9	332.0	322.7
160°	369.1	369.7	369.7	366.0	361.7	357.4	351.2	344.4	336.3	328.3	321.4
162.5°	356.7	357.4	357.4	354.3	351.8	348.1	342.5	336.9	330.7	324.5	319.0
165°	346.2	346.2	346.8	344.4	341.9	338.8	334.4	330.7	325.8	320.8	316.5
167.5°	335.7	335.7	336.3	334.4	333.2	330.7	328.3	325.2	320.8	317.1	314.0
170°	326.4	326.4	327.0	325.8	325.2	323.9	321.4	319.6	316.5	313.4	311.5
172.5°	317.7	318.3	319.6	318.3	318.3	317.7	315.9	314.6	312.1	310.3	309.7
175°	311.5	312.1	312.8	312.1	312.1	312.1	310.9	310.3	309.1	307.8	307.8
177.5°	307.2	307.2	308.4	307.8	308.4	308.4	307.8	307.2	306.6	306.0	306.6
180°	306.0	306.0	306.0	306.0	306.0	306.0	306.0	306.0	306.0	306.0	306.0



TEST NUMBER: P832427

CATALOG NUMBER: S123RDIP-S775D805U927-4F0-1E-UDD-G4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1977.7	1977.7	1977.7	1977.7	1977.7	1977.7	1977.7	1977.7	1977.7	1977.7	1977.7
2.5°	2099.7	2097.7	2078.2	2058.7	2039.7	2020.6	2006.4	1992.3	1968.3	1944.4	1929.4
5°	2229.8	2214.4	2183.6	2152.8	2106.6	2060.4	2021.4	1982.5	1933.1	1883.6	1842.2
7.5°	2302.4	2289.8	2252.5	2215.2	2154.0	2092.8	2032.0	1971.2	1898.2	1825.2	1762.8
10°	2304.4	2315.0	2284.2	2253.3	2184.4	2115.5	2032.8	1950.1	1852.0	1753.9	1673.2
12.5°	2232.3	2277.7	2271.2	2264.7	2194.6	2124.4	2023.9	1923.3	1802.9	1682.5	1581.6
15°	2097.3	2185.2	2211.2	2237.1	2179.2	2121.2	2006.8	1892.5	1751.0	1609.5	1493.6
17.5°	1923.3	2046.6	2115.1	2183.6	2141.4	2099.3	1974.0	1848.7	1689.4	1530.1	1404.0
20°	1717.4	1878.7	1986.2	2093.6	2078.2	2062.8	1933.5	1804.1	1632.2	1460.3	1323.7
22.5°	1513.9	1684.1	1832.5	1980.9	1996.7	2012.5	1882.0	1751.4	1563.3	1375.2	1236.1
25°	1338.3	1511.4	1688.2	1865.0	1900.6	1936.3	1812.2	1688.2	1493.2	1298.2	1159.9
27.5°	1170.9	1335.5	1530.1	1724.7	1789.5	1854.4	1740.9	1627.4	1424.3	1221.1	1083.3
30°	1034.2	1181.4	1380.1	1578.7	1669.1	1759.5	1655.3	1551.2	1349.7	1148.2	1013.2
32.5°	906.9	1038.7	1238.2	1437.6	1542.6	1647.6	1557.6	1467.6	1273.8	1080.0	946.7
35°	806.4	924.4	1110.5	1296.5	1414.1	1531.7	1457.9	1384.1	1194.8	1005.5	879.4
37.5°	720.0	819.0	993.7	1168.4	1293.3	1418.2	1356.5	1294.9	1116.9	939.0	819.8
40°	648.7	728.1	890.7	1053.3	1175.7	1298.2	1245.5	1192.8	1033.4	874.1	762.6
42.5°	587.5	656.0	801.9	947.9	1060.2	1172.5	1137.6	1102.8	958.4	814.1	710.7
45°	533.5	591.1	719.6	848.1	951.5	1054.9	1027.3	999.8	875.3	750.8	656.0
47.5°	485.7	535.2	649.9	764.6	857.5	950.3	924.8	899.2	796.3	693.3	606.9
50°	441.9	484.1	579.8	675.4	759.0	842.5	821.4	800.3	715.2	630.0	555.4
52.5°	400.6	435.4	521.4	607.3	674.6	741.9	725.7	709.5	643.8	578.1	510.4
55°	361.2	393.3	465.8	538.4	596.0	653.5	637.3	621.1	570.0	518.9	459.3
57.5°	325.6	353.5	412.3	471.1	516.9	562.7	555.0	547.3	504.8	462.2	413.1
60°	287.9	313.0	363.7	414.3	451.2	488.1	479.2	470.3	439.9	409.5	367.3
62.5°	254.2	276.5	317.0	357.6	387.6	417.6	411.1	404.6	381.5	358.4	323.5
65°	218.9	240.8	273.7	306.5	330.0	353.5	347.9	342.2	324.7	307.3	279.3
67.5°	186.9	205.1	233.5	261.9	277.7	293.5	290.3	287.0	273.7	260.3	238.4
70°	154.5	170.3	193.8	217.3	228.3	239.2	240.4	241.6	229.5	217.3	201.1
72.5°	122.0	134.6	156.5	178.4	186.9	195.4	195.0	194.6	187.3	180.0	165.4
75°	93.7	103.0	120.0	137.0	144.3	151.6	153.3	154.9	148.0	141.1	133.0
77.5°	67.3	73.8	86.8	99.7	107.8	116.0	116.8	117.6	114.3	111.1	103.4
80°	47.4	49.5	57.6	65.7	74.2	82.7	83.9	85.1	81.9	78.7	73.8
82.5°	32.8	34.1	36.9	39.7	46.6	53.5	55.1	56.8	55.1	53.5	48.2
85°	19.9	20.3	21.5	22.7	25.9	29.2	30.8	32.4	31.6	30.8	28.0
87.5°	8.9	8.9	9.3	9.7	10.5	11.4	13.4	15.4	14.2	13.0	11.8
90°	11.8	9.9	8.1	6.8	5.6	3.7	2.5	1.2	2.5	3.7	5.6
92.5°	95.4	62.6	42.7	31.6	25.4	19.8	13.6	9.3	13.6	19.8	25.4
95°	225.4	133.2	80.5	56.4	40.3	29.7	22.9	21.1	22.9	29.7	40.3
97.5°	250.8	143.7	91.7	65.0	48.9	39.6	34.1	33.4	34.1	39.6	48.9
100°	233.5	141.8	98.5	74.3	59.5	50.8	46.5	45.8	46.5	50.8	59.5
102.5°	218.6	144.3	106.5	84.8	71.8	63.8	60.1	58.8	60.1	63.8	71.8
105°	213.1	149.3	115.8	96.6	84.8	77.4	73.7	71.8	73.7	77.4	84.8
107.5°	211.8	157.3	127.6	109.6	98.5	91.0	87.3	85.5	87.3	91.0	98.5
110°	214.9	167.8	140.0	122.6	112.1	105.3	102.2	100.3	102.2	105.3	112.1



TEST NUMBER: P832427

CATALOG NUMBER: S123RDIP-S775D805U927-4F0-1E-UDD-G4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	221.1	178.4	153.0	136.3	125.7	118.9	115.8	114.0	115.8	118.9	125.7
115°	227.9	190.1	166.6	149.9	139.4	133.2	129.4	127.0	129.4	133.2	139.4
117.5°	236.6	202.5	179.0	163.5	151.7	146.2	143.1	140.0	143.1	146.2	151.7
120°	246.5	214.3	192.0	176.5	164.7	158.6	155.5	153.6	155.5	158.6	164.7
122.5°	255.8	226.7	205.0	188.3	177.1	170.3	167.2	165.4	167.2	170.3	177.1
125°	265.7	238.4	216.8	200.0	188.3	181.5	177.8	176.5	177.8	181.5	188.3
127.5°	273.7	249.0	227.9	211.2	198.2	191.4	187.0	185.2	187.0	191.4	198.2
130°	281.8	258.3	237.8	221.1	208.1	200.7	195.1	193.2	195.1	200.7	208.1
132.5°	289.2	266.3	246.5	230.4	217.4	208.1	201.9	199.4	201.9	208.1	217.4
135°	295.4	274.4	255.2	238.4	225.4	216.2	209.3	206.9	209.3	216.2	225.4
137.5°	300.4	279.9	261.4	245.9	232.9	223.0	216.2	213.7	216.2	223.0	232.9
140°	304.1	285.5	267.6	252.1	239.7	229.8	223.6	220.5	223.6	229.8	239.7
142.5°	307.8	289.9	272.5	258.3	245.9	237.2	230.4	227.9	230.4	237.2	245.9
145°	310.3	293.6	277.5	263.2	252.7	243.4	237.8	236.0	237.8	243.4	252.7
147.5°	312.1	296.7	281.8	269.4	258.9	250.8	245.3	244.0	245.3	250.8	258.9
150°	312.8	299.8	285.5	274.4	265.7	257.6	252.7	252.1	252.7	257.6	265.7
152.5°	314.0	301.6	289.9	279.3	271.9	265.1	260.1	260.1	260.1	265.1	271.9
155°	314.0	304.1	293.6	284.9	278.1	271.9	268.2	268.2	268.2	271.9	278.1
157.5°	314.6	305.3	296.7	289.9	283.7	278.1	275.0	274.4	275.0	278.1	283.7
160°	314.6	307.2	299.8	293.6	289.2	284.3	281.8	281.8	281.8	284.3	289.2
162.5°	314.0	307.8	301.6	296.7	292.9	289.2	287.4	287.4	287.4	289.2	292.9
165°	312.8	308.4	303.5	299.1	296.7	293.6	292.3	292.9	292.3	293.6	296.7
167.5°	312.1	308.4	304.7	301.6	299.8	297.3	296.7	297.3	296.7	297.3	299.8
170°	310.3	307.8	304.7	303.5	302.2	300.4	299.8	301.0	299.8	300.4	302.2
172.5°	309.7	307.8	305.3	304.7	304.1	302.9	302.9	303.5	302.9	302.9	304.1
175°	308.4	307.2	306.0	305.3	305.3	304.1	304.7	305.3	304.7	304.1	305.3
177.5°	307.8	306.6	306.0	306.0	306.0	305.3	306.0	306.6	306.0	305.3	306.0
180°	306.0	306.0	306.0	306.0	306.0	306.0	306.0	306.0	306.0	306.0	306.0



TEST NUMBER: P832427

CATALOG NUMBER: S123RDIP-S775D805U927-4F0-1E-UDD-G4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1977.7	1977.7	1977.7	1977.7	1977.7	1977.7	1977.7	1977.7	1977.7	1977.7	1977.7
2.5°	1914.4	1891.3	1868.2	1851.6	1834.9	1814.3	1793.6	1792.8	1792.0	1776.6	1761.2
5°	1800.9	1760.8	1720.6	1681.3	1642.0	1602.6	1563.3	1554.4	1545.5	1532.1	1518.7
7.5°	1700.3	1636.3	1572.2	1522.0	1471.7	1432.4	1393.0	1366.3	1339.5	1318.8	1298.2
10°	1592.5	1513.0	1433.6	1372.8	1312.0	1269.4	1226.8	1196.0	1165.2	1150.6	1136.0
12.5°	1480.6	1394.3	1307.9	1248.3	1188.7	1137.6	1086.5	1058.6	1030.6	1010.3	990.0
15°	1377.6	1284.8	1191.9	1128.7	1065.5	1017.6	969.8	941.8	913.8	893.6	873.3
17.5°	1277.9	1184.2	1090.6	1026.5	962.5	919.1	875.7	848.6	821.4	808.8	796.3
20°	1187.1	1092.6	998.2	937.7	877.3	834.8	792.2	777.6	763.0	751.3	739.5
22.5°	1097.1	1006.3	915.4	857.5	799.5	768.7	737.9	726.1	714.4	705.4	696.5
25°	1021.7	931.3	840.8	790.2	739.5	715.6	691.7	684.0	676.2	667.3	658.4
27.5°	945.4	859.5	773.5	733.0	692.5	673.0	653.5	643.8	634.1	626.8	619.5
30°	878.1	798.7	719.2	685.6	651.9	634.9	617.9	607.3	596.8	589.9	583.0
32.5°	813.3	742.7	672.2	643.4	614.6	598.0	581.4	571.2	561.1	553.0	544.9
35°	753.3	692.1	630.8	604.5	578.1	561.5	544.9	534.8	524.6	516.5	508.4
37.5°	700.6	645.0	589.5	564.8	540.0	525.4	510.8	500.3	489.8	481.2	472.7
40°	651.1	602.1	553.0	529.1	505.2	489.3	473.5	464.2	454.9	447.2	439.5
42.5°	607.3	562.3	517.3	493.8	470.3	455.3	440.3	429.3	418.4	413.9	409.5
45°	561.1	521.4	481.6	458.9	436.2	420.4	404.6	395.3	386.0	381.9	377.9
47.5°	520.6	483.7	446.8	424.5	402.2	388.0	373.8	366.5	359.2	353.5	347.9
50°	480.8	445.2	409.5	388.0	366.5	354.3	342.2	333.3	324.3	320.3	316.2
52.5°	442.7	410.3	377.9	356.0	334.1	322.3	310.6	302.9	295.1	286.6	278.1
55°	399.7	371.4	343.0	323.5	304.1	291.9	279.7	270.8	261.9	253.0	244.1
57.5°	364.1	336.1	308.1	290.7	273.3	261.5	249.7	240.0	230.3	223.0	215.7
60°	325.2	300.8	276.5	259.5	242.4	231.1	219.7	210.4	201.1	197.4	193.8
62.5°	288.7	266.0	243.3	228.3	213.3	202.3	191.4	185.3	179.2	176.8	174.3
65°	251.4	231.9	212.4	198.7	184.9	175.5	166.2	163.4	160.5	158.5	156.5
67.5°	216.5	199.9	183.3	171.1	158.9	152.4	146.0	142.7	139.5	137.0	134.6
70°	184.9	170.3	155.7	145.1	134.6	128.5	122.4	119.6	116.8	112.3	107.8
72.5°	150.8	139.5	128.1	120.0	111.9	106.6	101.4	95.7	90.0	85.9	81.9
75°	124.9	113.5	102.2	94.5	86.8	80.7	74.6	72.6	70.5	69.3	68.1
77.5°	95.7	85.9	76.2	70.1	64.1	61.2	58.4	57.2	55.9	55.5	55.1
80°	68.9	60.8	52.7	49.5	46.2	45.4	44.6	43.8	43.0	42.6	42.2
82.5°	43.0	38.9	34.9	34.1	33.2	32.8	32.4	32.0	31.6	31.2	30.8
85°	25.1	23.5	21.9	21.5	21.1	20.7	20.3	20.3	20.3	20.3	20.3
87.5°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.1	9.7
90°	6.8	8.1	9.9	11.8	13.6	15.5	14.9	15.5	16.1	16.7	18.0
92.5°	31.6	42.7	62.6	95.4	127.6	115.2	86.1	61.3	47.7	41.5	37.2
95°	56.4	80.5	133.2	225.4	327.0	367.3	297.9	223.0	151.1	118.3	96.0
97.5°	65.0	91.7	143.7	250.8	421.8	564.8	584.0	512.2	386.5	304.7	234.1
100°	74.3	98.5	141.8	233.5	396.4	586.5	708.5	730.2	680.0	607.6	519.6
102.5°	84.8	106.5	144.3	218.6	359.2	546.3	714.7	802.7	813.2	778.5	730.8
105°	96.6	115.8	149.3	213.1	330.1	498.0	675.7	805.1	867.1	878.8	862.7
107.5°	109.6	127.6	157.3	211.8	309.1	455.2	620.0	768.0	865.2	913.5	930.3
110°	122.6	140.0	167.8	214.9	297.9	419.9	567.9	709.8	823.7	901.8	945.1



TEST NUMBER: P832427

CATALOG NUMBER: S123RDIP-S775D805U927-4F0-1E-UDD-G4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	136.3	153.0	178.4	221.1	291.7	396.4	522.7	652.2	769.2	859.0	917.9
115°	149.9	166.6	190.1	227.9	291.1	380.9	488.0	602.6	710.4	801.4	868.9
117.5°	163.5	179.0	202.5	236.6	291.7	370.4	465.1	564.2	659.6	743.2	813.2
120°	176.5	192.0	214.3	246.5	294.2	363.6	447.8	535.1	618.7	693.0	755.6
122.5°	188.3	205.0	226.7	255.8	298.5	359.2	433.5	512.2	585.9	653.4	710.4
125°	200.0	216.8	238.4	265.7	302.9	355.5	421.8	492.4	559.9	619.3	668.9
127.5°	211.2	227.9	249.0	273.7	307.8	353.6	410.6	474.4	535.7	590.2	636.1
130°	221.1	237.8	258.3	281.8	312.8	351.8	402.0	457.7	513.4	563.6	605.7
132.5°	230.4	246.5	266.3	289.2	316.5	351.2	393.9	442.2	492.4	538.2	577.8
135°	238.4	255.2	274.4	295.4	320.2	350.5	387.1	428.6	472.6	512.8	548.1
137.5°	245.9	261.4	279.9	300.4	322.7	349.3	380.9	415.6	452.7	488.7	520.2
140°	252.1	267.6	285.5	304.1	325.2	348.7	375.3	404.4	436.0	465.7	492.4
142.5°	258.3	272.5	289.9	307.8	327.0	347.5	370.4	393.9	419.9	444.7	467.0
145°	263.2	277.5	293.6	310.3	327.6	346.2	366.0	385.9	406.3	426.1	444.1
147.5°	269.4	281.8	296.7	312.1	327.6	344.4	361.7	379.0	395.8	412.5	425.5
150°	274.4	285.5	299.8	312.8	327.6	341.9	357.4	371.6	385.9	398.9	410.6
152.5°	279.3	289.9	301.6	314.0	325.8	338.8	352.4	364.8	376.6	387.7	397.0
155°	284.9	293.6	304.1	314.0	324.5	335.1	347.5	358.0	367.9	377.2	384.6
157.5°	289.9	296.7	305.3	314.6	322.7	332.0	341.9	350.5	359.2	366.7	372.8
160°	293.6	299.8	307.2	314.6	321.4	328.3	336.3	344.4	351.2	357.4	361.7
162.5°	296.7	301.6	307.8	314.0	319.0	324.5	330.7	336.9	342.5	348.1	351.8
165°	299.1	303.5	308.4	312.8	316.5	320.8	325.8	330.7	334.4	338.8	341.9
167.5°	301.6	304.7	308.4	312.1	314.0	317.1	320.8	325.2	328.3	330.7	333.2
170°	303.5	304.7	307.8	310.3	311.5	313.4	316.5	319.6	321.4	323.9	325.2
172.5°	304.7	305.3	307.8	309.7	309.7	310.3	312.1	314.6	315.9	317.7	318.3
175°	305.3	306.0	307.2	308.4	307.8	307.8	309.1	310.3	310.9	312.1	312.1
177.5°	306.0	306.0	306.6	307.8	306.6	306.0	306.6	307.2	307.8	308.4	308.4
180°	306.0	306.0	306.0	306.0	306.0	306.0	306.0	306.0	306.0	306.0	306.0



TEST NUMBER: P832427

CATALOG NUMBER: S123RDIP-S775D805U927-4F0-1E-UDD-G4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1977.7	1977.7	1977.7	1977.7
2.5°	1757.1	1753.1	1751.4	1749.8
5°	1506.2	1493.6	1490.7	1487.9
7.5°	1292.9	1287.6	1270.2	1252.8
10°	1119.8	1103.6	1096.3	1089.0
12.5°	975.0	960.0	957.6	955.2
15°	862.7	852.2	848.6	844.9
17.5°	789.0	781.7	777.2	772.7
20°	734.2	729.0	725.7	722.5
22.5°	692.5	688.4	686.0	683.5
25°	652.3	646.2	644.2	642.2
27.5°	614.2	608.9	606.9	604.9
30°	578.5	574.1	571.2	568.4
32.5°	539.6	534.3	532.7	531.1
35°	505.2	501.9	500.3	498.7
37.5°	468.7	464.6	462.2	459.8
40°	437.5	435.4	434.2	433.0
42.5°	405.8	402.2	401.8	401.4
45°	374.2	370.6	369.7	368.9
47.5°	344.6	341.4	341.0	340.6
50°	311.8	307.3	304.1	300.8
52.5°	274.1	270.0	267.2	264.3
55°	239.6	235.1	232.7	230.3
57.5°	213.7	211.6	210.4	209.2
60°	192.6	191.4	190.5	189.7
62.5°	173.1	171.9	171.9	171.9
65°	155.3	154.1	152.8	151.6
67.5°	132.2	129.7	129.3	128.9
70°	104.2	100.5	100.1	99.7
72.5°	81.5	81.1	80.3	79.5
75°	67.3	66.5	66.5	66.5
77.5°	54.3	53.5	53.5	53.5
80°	41.8	41.4	41.8	42.2
82.5°	30.8	30.8	30.4	30.0
85°	19.9	19.5	19.5	19.5
87.5°	9.7	9.7	9.7	9.7
90°	17.3	18.0	18.6	18.0
92.5°	35.9	33.4	34.1	32.8
95°	84.2	78.7	74.3	71.8
97.5°	192.6	169.1	154.2	147.4
100°	457.1	411.9	387.7	388.3
102.5°	685.6	652.2	633.0	615.0
105°	834.3	810.7	790.9	787.8
107.5°	926.5	915.4	907.3	900.5
110°	962.5	967.4	966.2	964.9



TEST NUMBER: P832427

CATALOG NUMBER: S123RDIP-S775D805U927-4F0-1E-UDD-G4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
112.5°	953.2	971.1	977.3	977.9
115°	915.4	942.6	955.0	958.1
117.5°	861.5	891.9	910.4	914.8
120°	804.5	839.2	854.1	857.8
122.5°	752.5	782.8	799.6	804.5
125°	708.5	735.8	751.3	755.6
127.5°	672.0	695.5	709.8	713.5
130°	638.5	660.8	673.8	678.8
132.5°	608.2	630.5	641.6	644.7
135°	578.5	597.0	608.2	612.5
137.5°	546.3	565.5	574.8	578.5
140°	515.9	533.3	543.2	542.5
142.5°	486.2	501.0	509.7	509.1
145°	459.6	472.6	477.5	478.8
147.5°	437.9	447.2	452.1	452.7
150°	419.9	426.7	430.4	430.4
152.5°	403.8	410.0	411.9	411.9
155°	390.2	395.1	396.4	397.0
157.5°	377.8	381.5	382.8	382.8
160°	366.0	369.7	369.7	369.1
162.5°	354.3	357.4	357.4	356.7
165°	344.4	346.8	346.2	346.2
167.5°	334.4	336.3	335.7	335.7
170°	325.8	327.0	326.4	326.4
172.5°	318.3	319.6	318.3	317.7
175°	312.1	312.8	312.1	311.5
177.5°	307.8	308.4	307.2	307.2
180°	306.0	306.0	306.0	306.0



TEST NUMBER: P832427

CATALOG NUMBER: S123RDIP-S775D805U927-4F0-1E-UDD-G4

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	11.67	12.51	12.61	13.46	14.68	16.34	17.17	17.28	18.12	19.35
	3H	12.89	13.64	13.85	14.60	15.85	17.84	18.58	18.79	19.54	20.79
	4H	13.28	13.98	14.24	14.94	16.20	18.33	19.03	19.29	19.99	21.25
	6H	13.56	14.21	14.54	15.17	16.45	18.64	19.29	19.62	20.25	21.53
	8H	13.65	14.26	14.63	15.24	16.52	18.72	19.33	19.70	20.32	21.59
	12H	13.70	14.28	14.68	15.26	16.55	18.75	19.33	19.74	20.31	21.61
4H	2H	12.40	13.10	13.37	14.06	15.32	16.33	17.04	17.31	18.00	19.26
	3H	13.77	14.35	14.75	15.34	16.62	17.99	18.58	18.97	19.57	20.84
	4H	14.22	14.76	15.21	15.74	17.04	18.60	19.13	19.59	20.12	21.42
	6H	14.59	15.05	15.59	16.06	17.35	19.04	19.49	20.04	20.50	21.80
	8H	14.71	15.14	15.72	16.14	17.45	19.17	19.59	20.17	20.60	21.91
	12H	14.79	15.17	15.81	16.19	17.51	19.23	19.61	20.25	20.63	21.95
8H	4H	14.54	14.96	15.54	15.97	17.28	18.57	18.99	19.57	19.99	21.31
	6H	15.00	15.35	16.03	16.40	17.71	19.06	19.41	20.09	20.46	21.77
	8H	15.19	15.50	16.23	16.53	17.86	19.25	19.56	20.28	20.59	21.92
	12H	15.33	15.60	16.37	16.63	18.00	19.36	19.64	20.40	20.66	22.03
12H	4H	14.55	14.93	15.57	15.95	17.27	18.52	18.90	19.54	19.92	21.23
	6H	15.06	15.37	16.09	16.40	17.73	19.04	19.35	20.07	20.38	21.71
	8H	15.28	15.55	16.31	16.57	17.95	19.23	19.50	20.27	20.53	21.90