

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: P832399

Luminaire Tested: S123RDIP-S775D585U927-4F0-1E-UDD-G1

Issue Date: 05/03/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P832399  
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-S775D585U927-4F0-1E-UDD-G1  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 775 LUMENS PER FOOT, GRAZE OPTIC  
UPLIGHT 585 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: -

**Summary**

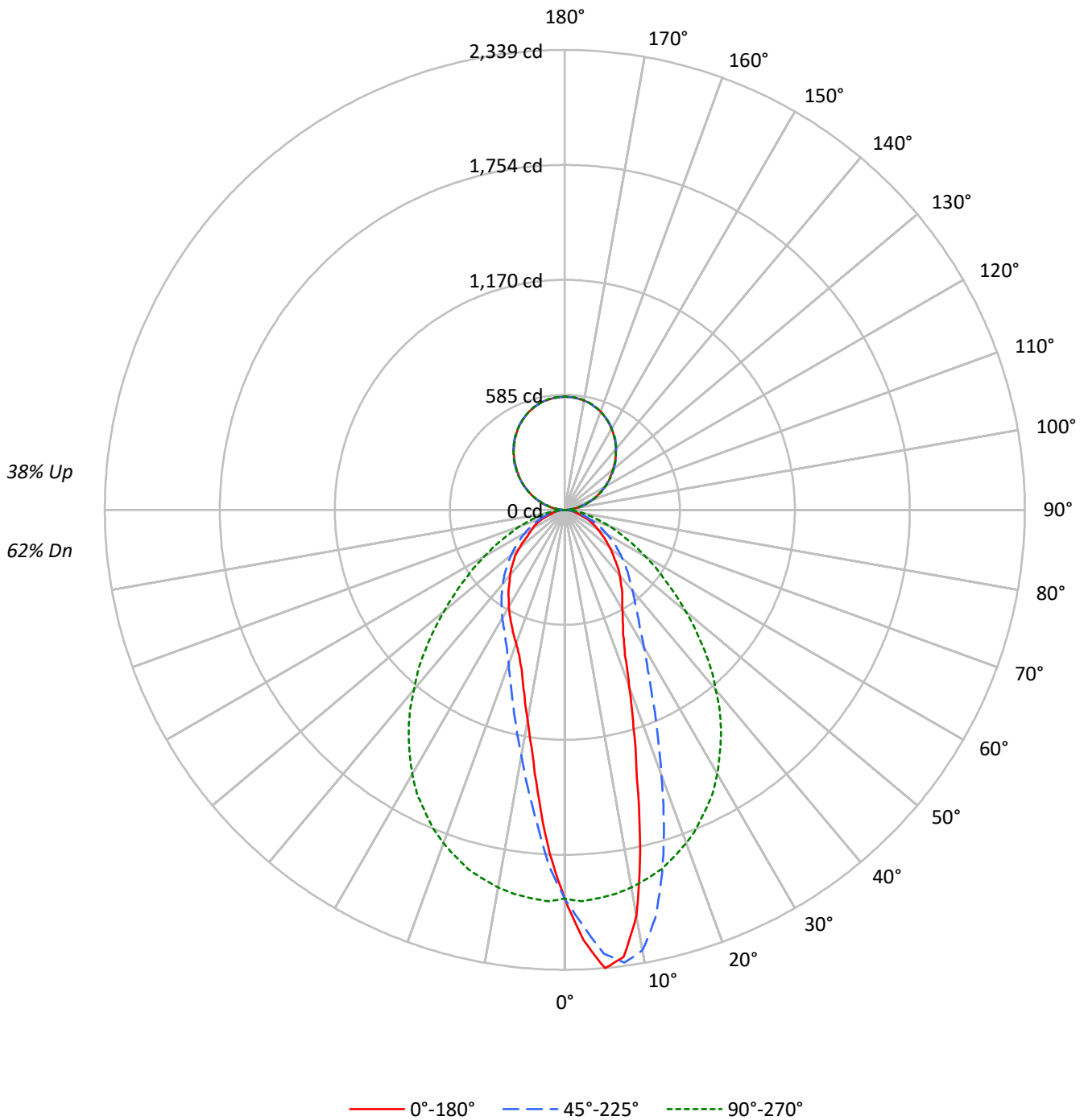
Lumens per Lamp: N/A  
Luminaire Lumens: 4217.1 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Spacing Criteria (0/90/45): 0.55 / 1.17 / 0.8  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 41.1  
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									20
RC	80									70									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62																												
1	101	97	94	91	95	92	88	86	81	78	76	70	69	67	61	60	59	54																												
2	93	86	81	76	87	81	76	72	72	68	65	63	60	58	55	53	51	47																												
3	86	77	70	65	80	73	67	62	64	60	56	57	53	50	50	47	45	41																												
4	79	69	62	56	74	65	59	53	58	53	49	51	47	44	45	42	40	37																												
5	73	62	55	49	69	59	52	47	53	47	43	47	43	39	42	38	36	33																												
6	68	57	49	43	64	54	47	42	48	43	38	43	39	35	38	35	32	29																												
7	63	52	44	39	60	49	42	37	44	39	34	40	35	32	35	32	29	27																												
8	59	47	40	35	56	45	38	34	41	35	31	37	32	29	33	29	27	24																												
9	55	44	36	32	52	42	35	31	38	32	28	34	30	26	31	27	24	22																												
10	52	40	33	29	49	39	32	28	35	30	26	32	27	24	29	25	23	21																												

**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



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.3	4.3
10°-20°	417.1	9.9
20°-30°	478.6	11.3
30°-40°	471.7	11.2
40°-50°	416.0	9.9
50°-60°	320.0	7.6
60°-70°	210.4	5.0
70°-80°	102.2	2.4
80°-90°	27.0	0.6
90°-100°	37.0	0.9
100°-110°	112.1	2.7
110°-120°	190.8	4.5
120°-130°	251.0	6.0
130°-140°	282.1	6.7
140°-150°	277.4	6.6
150°-160°	233.5	5.5
160°-170°	155.5	3.7
170°-180°	54.4	1.3
0°-30°	1076.0	25.5
0°-40°	1547.7	36.7
0°-60°	2283.7	54.2
0°-90°	2623.3	62.2
90°-120°	339.9	8.1
90°-150°	1150.4	27.3
90°-180°	1594.0	37.8
0°-180°	4217.1	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°	14	11	0	11	14	7
95°	35	33	27	33	35	35
105°	108	107	102	107	108	114
115°	192	192	192	192	192	191
125°	278	282	281	282	278	249
135°	364	367	365	367	364	280
145°	442	445	442	445	442	276
155°	506	507	506	507	506	233
165°	550	550	552	550	550	155
175°	572	572	574	572	572	54
180°	575	575	575	575	575	



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**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°	13.6	13.4	13.2	13.0	12.8	12.5	12.0	11.6	11.2	10.8	9.5
92.5°	19.4	19.6	19.8	20.0	20.2	20.2	19.9	19.6	19.3	19.0	18.4
95°	35.2	35.2	35.2	35.2	35.2	35.0	34.6	34.2	33.8	33.4	32.6
97.5°	50.6	50.7	50.8	50.9	51.0	50.8	50.3	49.8	49.3	48.8	48.2
100°	68.7	68.5	68.3	68.1	67.9	67.6	67.3	67.0	66.7	66.4	65.9
102.5°	87.2	87.3	87.4	87.5	87.6	87.5	87.2	86.9	86.6	86.3	85.6
105°	107.5	107.3	107.1	106.9	106.7	106.6	106.6	106.6	106.6	106.6	105.7
107.5°	128.3	128.4	128.5	128.6	128.7	128.6	128.3	128.0	127.7	127.4	127.0
110°	149.6	149.8	150.0	150.2	150.4	150.3	149.9	149.5	149.1	148.7	148.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	172.2	172.2	172.2	172.2	172.2	171.9	171.4	170.9	170.4	169.9	169.9
115°	192.5	192.6	192.7	192.8	192.9	192.9	192.8	192.7	192.6	192.5	192.7
117.5°	213.3	213.6	213.9	214.2	214.5	214.6	214.6	214.6	214.6	214.6	214.8
120°	235.4	235.6	235.8	236.0	236.2	236.4	236.5	236.6	236.7	236.8	237.3
122.5°	256.7	257.0	257.3	257.6	257.9	258.2	258.5	258.8	259.1	259.4	259.6
125°	277.9	278.3	278.7	279.1	279.5	279.9	280.3	280.7	281.1	281.5	281.7
127.5°	299.1	299.5	299.9	300.3	300.7	301.2	301.8	302.4	303.0	303.6	303.8
130°	319.9	320.6	321.3	322.0	322.7	323.3	323.7	324.1	324.5	324.9	325.2
132.5°	341.6	342.1	342.6	343.1	343.6	344.1	344.6	345.1	345.6	346.1	346.3
135°	364.2	364.4	364.6	364.8	365.0	365.3	365.7	366.1	366.5	366.9	367.0
137.5°	384.1	384.4	384.7	385.0	385.3	385.7	386.2	386.7	387.2	387.7	387.4
140°	403.5	404.2	404.9	405.6	406.3	406.7	406.8	406.9	407.0	407.1	407.0
142.5°	423.4	423.9	424.4	424.9	425.4	425.7	425.8	425.9	426.0	426.1	425.9
145°	442.4	442.8	443.2	443.6	444.0	444.2	444.3	444.4	444.5	444.6	444.3
147.5°	459.5	460.1	460.7	461.3	461.9	462.2	462.2	462.2	462.2	462.2	461.9
150°	475.8	476.4	477.0	477.6	478.2	478.5	478.5	478.5	478.5	478.5	478.3
152.5°	491.6	492.1	492.6	493.1	493.6	493.8	493.6	493.4	493.2	493.0	492.9
155°	505.6	506.3	507.0	507.7	508.4	508.6	508.2	507.8	507.4	507.0	506.9
157.5°	518.7	519.3	519.9	520.5	521.1	521.2	520.8	520.4	520.0	519.6	519.5
160°	531.4	531.8	532.2	532.6	533.0	532.9	532.4	531.9	531.4	530.9	530.9
162.5°	540.9	541.6	542.3	543.0	543.7	543.8	543.3	542.8	542.3	541.8	541.7
165°	549.9	550.6	551.3	552.0	552.7	552.8	552.2	551.6	551.0	550.4	550.4
167.5°	558.0	558.6	559.2	559.8	560.4	560.4	559.8	559.2	558.6	558.0	557.9
170°	563.9	564.6	565.3	566.0	566.7	566.7	566.0	565.3	564.6	563.9	563.9
172.5°	568.4	569.1	569.8	570.5	571.2	571.3	570.7	570.1	569.5	568.9	568.9
175°	571.6	572.3	573.0	573.7	574.4	574.5	573.9	573.3	572.6	572.0	572.0
177.5°	573.4	574.1	574.8	575.5	576.2	576.3	575.7	575.1	574.5	573.9	573.9
180°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2



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**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°	8.2	6.9	5.6	4.5	3.5	2.5	1.5	0.5	1.5	2.5	3.5
92.5°	17.8	17.2	16.6	16.0	15.4	14.8	14.2	13.6	14.2	14.8	15.4
95°	31.8	31.0	30.2	29.5	28.8	28.1	27.4	26.7	27.4	28.1	28.8
97.5°	47.6	47.0	46.4	45.8	45.3	44.8	44.3	43.8	44.3	44.8	45.3
100°	65.4	64.9	64.4	63.9	63.3	62.7	62.1	61.5	62.1	62.7	63.3
102.5°	84.9	84.2	83.5	83.0	82.7	82.4	82.1	81.8	82.1	82.4	82.7
105°	104.8	103.9	103.0	102.5	102.3	102.1	101.9	101.7	101.9	102.1	102.3
107.5°	126.6	126.2	125.8	125.6	125.5	125.4	125.3	125.2	125.3	125.4	125.5
110°	148.3	148.1	147.9	147.7	147.5	147.3	147.1	146.9	147.1	147.3	147.5





TEST NUMBER: P832399

CATALOG NUMBER: S123RDIP-S775D585U927-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	169.9	169.9	169.9	169.8	169.7	169.6	169.5	169.4	169.5	169.6	169.7
115°	192.9	193.1	193.3	193.2	192.9	192.6	192.3	192.0	192.3	192.6	192.9
117.5°	215.0	215.2	215.4	215.5	215.4	215.3	215.2	215.1	215.2	215.3	215.4
120°	237.8	238.3	238.8	238.7	238.1	237.5	236.9	236.3	236.9	237.5	238.1
122.5°	259.8	260.0	260.2	260.1	259.7	259.3	258.9	258.5	258.9	259.3	259.7
125°	281.9	282.1	282.3	282.3	282.0	281.7	281.4	281.1	281.4	281.7	282.0
127.5°	304.0	304.2	304.4	304.2	303.6	303.0	302.4	301.8	302.4	303.0	303.6
130°	325.5	325.8	326.1	325.8	325.0	324.2	323.4	322.6	323.4	324.2	325.0
132.5°	346.5	346.7	346.9	346.6	345.8	345.0	344.2	343.4	344.2	345.0	345.8
135°	367.1	367.2	367.3	367.1	366.5	365.9	365.2	364.6	365.2	365.9	366.5
137.5°	387.1	386.8	386.5	386.1	385.6	385.1	384.6	384.1	384.6	385.1	385.6
140°	406.9	406.8	406.7	406.4	405.9	405.4	404.9	404.4	404.9	405.4	405.9
142.5°	425.7	425.5	425.3	424.9	424.4	423.9	423.4	422.9	423.4	423.9	424.4
145°	444.0	443.7	443.4	443.2	443.0	442.8	442.6	442.4	442.6	442.8	443.0
147.5°	461.6	461.3	461.0	460.7	460.3	459.9	459.5	459.1	459.5	459.9	460.3
150°	478.1	477.9	477.7	477.5	477.3	477.1	476.9	476.7	476.9	477.1	477.3
152.5°	492.8	492.7	492.6	492.4	492.1	491.8	491.5	491.2	491.5	491.8	492.1
155°	506.8	506.7	506.6	506.5	506.5	506.5	506.5	506.5	506.5	506.5	506.5
157.5°	519.4	519.3	519.2	519.2	519.3	519.4	519.5	519.6	519.5	519.4	519.3
160°	530.9	530.9	530.9	531.0	531.2	531.4	531.6	531.8	531.6	531.4	531.2
162.5°	541.6	541.5	541.4	541.5	541.8	542.1	542.4	542.7	542.4	542.1	541.8
165°	550.4	550.4	550.4	550.5	550.8	551.1	551.4	551.7	551.4	551.1	550.8
167.5°	557.8	557.7	557.6	557.8	558.2	558.6	559.0	559.4	559.0	558.6	558.2
170°	563.9	563.9	563.9	564.1	564.5	564.9	565.3	565.7	565.3	564.9	564.5
172.5°	568.9	568.9	568.9	569.1	569.5	569.9	570.3	570.7	570.3	569.9	569.5
175°	572.0	572.0	572.0	572.2	572.6	573.0	573.5	573.9	573.5	573.0	572.6
177.5°	573.9	573.9	573.9	574.1	574.5	574.9	575.3	575.7	575.3	574.9	574.5
180°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2



TEST NUMBER: P832399

CATALOG NUMBER: S123RDIP-S775D585U927-4F0-1E-UDD-G1

**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°	4.5	5.6	6.9	8.2	9.5	10.8	11.2	11.6	12.0	12.5	12.8
92.5°	16.0	16.6	17.2	17.8	18.4	19.0	19.3	19.6	19.9	20.2	20.2
95°	29.5	30.2	31.0	31.8	32.6	33.4	33.8	34.2	34.6	35.0	35.2
97.5°	45.8	46.4	47.0	47.6	48.2	48.8	49.3	49.8	50.3	50.8	51.0
100°	63.9	64.4	64.9	65.4	65.9	66.4	66.7	67.0	67.3	67.6	67.9
102.5°	83.0	83.5	84.2	84.9	85.6	86.3	86.6	86.9	87.2	87.5	87.6
105°	102.5	103.0	103.9	104.8	105.7	106.6	106.6	106.6	106.6	106.6	106.7
107.5°	125.6	125.8	126.2	126.6	127.0	127.4	127.7	128.0	128.3	128.6	128.7
110°	147.7	147.9	148.1	148.3	148.5	148.7	149.1	149.5	149.9	150.3	150.4



TEST NUMBER: P832399

CATALOG NUMBER: S123RDIP-S775D585U927-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	169.8	169.9	169.9	169.9	169.9	169.9	170.4	170.9	171.4	171.9	172.2
115°	193.2	193.3	193.1	192.9	192.7	192.5	192.6	192.7	192.8	192.9	192.9
117.5°	215.5	215.4	215.2	215.0	214.8	214.6	214.6	214.6	214.6	214.6	214.5
120°	238.7	238.8	238.3	237.8	237.3	236.8	236.7	236.6	236.5	236.4	236.2
122.5°	260.1	260.2	260.0	259.8	259.6	259.4	259.1	258.8	258.5	258.2	257.9
125°	282.3	282.3	282.1	281.9	281.7	281.5	281.1	280.7	280.3	279.9	279.5
127.5°	304.2	304.4	304.2	304.0	303.8	303.6	303.0	302.4	301.8	301.2	300.7
130°	325.8	326.1	325.8	325.5	325.2	324.9	324.5	324.1	323.7	323.3	322.7
132.5°	346.6	346.9	346.7	346.5	346.3	346.1	345.6	345.1	344.6	344.1	343.6
135°	367.1	367.3	367.2	367.1	367.0	366.9	366.5	366.1	365.7	365.3	365.0
137.5°	386.1	386.5	386.8	387.1	387.4	387.7	387.2	386.7	386.2	385.7	385.3
140°	406.4	406.7	406.8	406.9	407.0	407.1	407.0	406.9	406.8	406.7	406.3
142.5°	424.9	425.3	425.5	425.7	425.9	426.1	426.0	425.9	425.8	425.7	425.4
145°	443.2	443.4	443.7	444.0	444.3	444.6	444.5	444.4	444.3	444.2	444.0
147.5°	460.7	461.0	461.3	461.6	461.9	462.2	462.2	462.2	462.2	462.2	461.9
150°	477.5	477.7	477.9	478.1	478.3	478.5	478.5	478.5	478.5	478.5	478.2
152.5°	492.4	492.6	492.7	492.8	492.9	493.0	493.2	493.4	493.6	493.8	493.6
155°	506.5	506.6	506.7	506.8	506.9	507.0	507.4	507.8	508.2	508.6	508.4
157.5°	519.2	519.2	519.3	519.4	519.5	519.6	520.0	520.4	520.8	521.2	521.1
160°	531.0	530.9	530.9	530.9	530.9	530.9	531.4	531.9	532.4	532.9	533.0
162.5°	541.5	541.4	541.5	541.6	541.7	541.8	542.3	542.8	543.3	543.8	543.7
165°	550.5	550.4	550.4	550.4	550.4	550.4	551.0	551.6	552.2	552.8	552.7
167.5°	557.8	557.6	557.7	557.8	557.9	558.0	558.6	559.2	559.8	560.4	560.4
170°	564.1	563.9	563.9	563.9	563.9	563.9	564.6	565.3	566.0	566.7	566.7
172.5°	569.1	568.9	568.9	568.9	568.9	568.9	569.5	570.1	570.7	571.3	571.2
175°	572.2	572.0	572.0	572.0	572.0	572.0	572.6	573.3	573.9	574.5	574.4
177.5°	574.1	573.9	573.9	573.9	573.9	573.9	574.5	575.1	575.7	576.3	576.2
180°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2



TEST NUMBER: P832399

CATALOG NUMBER: S123RDIP-S775D585U927-4F0-1E-UDD-G1

**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°	13.0	13.2	13.4	13.6
92.5°	20.0	19.8	19.6	19.4
95°	35.2	35.2	35.2	35.2
97.5°	50.9	50.8	50.7	50.6
100°	68.1	68.3	68.5	68.7
102.5°	87.5	87.4	87.3	87.2
105°	106.9	107.1	107.3	107.5
107.5°	128.6	128.5	128.4	128.3
110°	150.2	150.0	149.8	149.6



TEST NUMBER: P832399

CATALOG NUMBER: S123RDIP-S775D585U927-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
112.5°	172.2	172.2	172.2	172.2
115°	192.8	192.7	192.6	192.5
117.5°	214.2	213.9	213.6	213.3
120°	236.0	235.8	235.6	235.4
122.5°	257.6	257.3	257.0	256.7
125°	279.1	278.7	278.3	277.9
127.5°	300.3	299.9	299.5	299.1
130°	322.0	321.3	320.6	319.9
132.5°	343.1	342.6	342.1	341.6
135°	364.8	364.6	364.4	364.2
137.5°	385.0	384.7	384.4	384.1
140°	405.6	404.9	404.2	403.5
142.5°	424.9	424.4	423.9	423.4
145°	443.6	443.2	442.8	442.4
147.5°	461.3	460.7	460.1	459.5
150°	477.6	477.0	476.4	475.8
152.5°	493.1	492.6	492.1	491.6
155°	507.7	507.0	506.3	505.6
157.5°	520.5	519.9	519.3	518.7
160°	532.6	532.2	531.8	531.4
162.5°	543.0	542.3	541.6	540.9
165°	552.0	551.3	550.6	549.9
167.5°	559.8	559.2	558.6	558.0
170°	566.0	565.3	564.6	563.9
172.5°	570.5	569.8	569.1	568.4
175°	573.7	573.0	572.3	571.6
177.5°	575.5	574.8	574.1	573.4
180°	575.2	575.2	575.2	575.2

TEST NUMBER: P832399

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**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	12.45	13.36	13.31	14.23	15.32	17.11	18.02	17.97	18.89	19.98
	3H	13.68	14.49	14.55	15.37	16.49	18.62	19.43	19.49	20.31	21.43
	4H	14.06	14.83	14.95	15.72	16.84	19.11	19.88	20.00	20.76	21.89
	6H	14.35	15.05	15.24	15.95	17.09	19.43	20.13	20.33	21.03	22.17
	8H	14.44	15.11	15.34	16.02	17.16	19.51	20.18	20.41	21.09	22.23
	12H	14.49	15.13	15.40	16.03	17.20	19.54	20.18	20.45	21.08	22.25
4H	2H	13.18	13.95	14.07	14.84	15.96	17.12	17.89	18.01	18.77	19.90
	3H	14.56	15.19	15.46	16.11	17.25	18.78	19.42	19.68	20.34	21.48
	4H	15.02	15.60	15.93	16.51	17.68	19.39	19.97	20.30	20.89	22.05
	6H	15.39	15.89	16.31	16.82	17.99	19.83	20.33	20.76	21.27	22.44
	8H	15.51	15.98	16.44	16.91	18.09	19.97	20.43	20.90	21.36	22.55
	12H	15.59	16.01	16.54	16.96	18.15	20.03	20.45	20.98	21.40	22.59
8H	4H	15.34	15.80	16.26	16.73	17.92	19.37	19.83	20.29	20.76	21.94
	6H	15.80	16.19	16.76	17.16	18.34	19.86	20.25	20.82	21.22	22.40
	8H	16.00	16.33	16.96	17.30	18.50	20.05	20.39	21.01	21.35	22.55
	12H	16.14	16.44	17.10	17.39	18.64	20.17	20.47	21.14	21.42	22.67
12H	4H	15.35	15.77	16.30	16.72	17.91	19.32	19.74	20.27	20.69	21.87
	6H	15.86	16.20	16.83	17.16	18.36	19.84	20.18	20.80	21.14	22.34
	8H	16.08	16.38	17.05	17.34	18.59	20.04	20.33	21.00	21.29	22.54