

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: P832389

Luminaire Tested: S123RDIP-S775D585U835-4F0-1E-UDD-G

Issue Date: 05/03/2024

Test Information

Test Method: LM-79-2019
Report Number: P832389
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2301-905-2, G3-1807-864-5)
Test Lab: INNOVATION CENTER
Issue Date: 05/03/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-S775D585U835-4F0-1E-UDD-G
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, GRAZE OPTIC
UPLIGHT 585 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: -

Summary

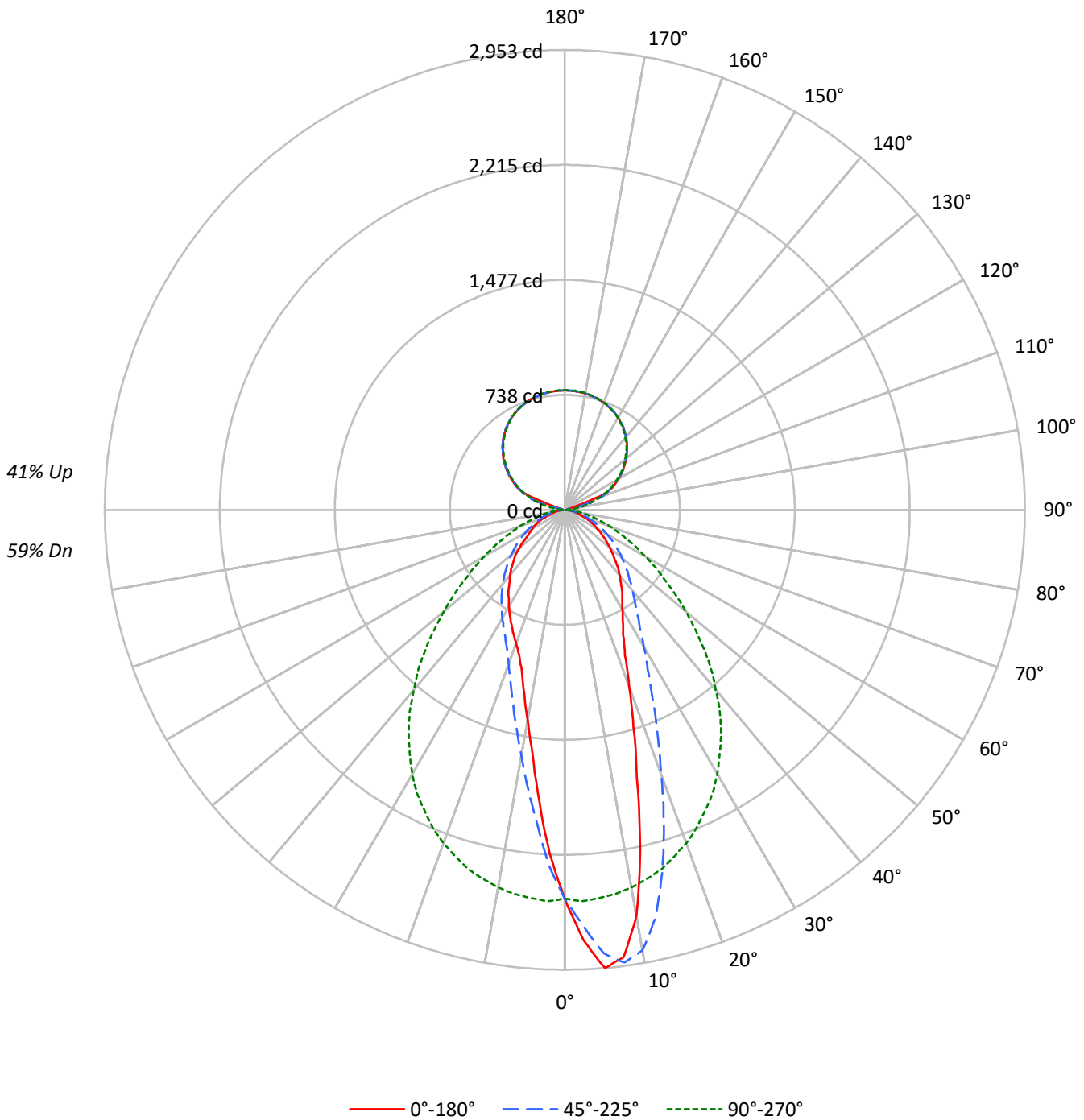
Lumens per Lamp: N/A
Luminaire Lumens: 5651.8 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 1.17 / 0.8
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 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					
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	0		
RCR																										
0	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59								
1	101	97	93	90	94	90	87	84	79	76	74	68	66	65	58	57	56	51								
2	92	86	80	75	86	80	75	71	70	66	63	61	58	56	52	50	49	44								
3	85	76	69	64	79	72	65	61	63	58	54	55	51	48	47	45	43	39								
4	78	68	61	55	73	64	58	52	57	51	47	50	46	42	43	40	38	34								
5	73	61	54	48	68	58	51	46	51	46	42	45	41	38	39	36	34	31								
6	67	56	48	43	63	53	46	41	47	41	37	41	37	34	36	33	30	28								
7	63	51	43	38	59	48	41	36	43	37	33	38	34	30	34	30	28	25								
8	58	47	39	34	55	44	38	33	40	34	30	35	31	28	31	28	25	23								
9	55	43	36	31	51	41	34	30	37	31	28	33	28	25	29	26	23	21								
10	51	40	33	28	48	38	32	27	34	29	25	31	26	23	27	24	21	20								

AVERAGE LUMINANCE (cd/sqm):

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

MAXIMUM LUMINANCE 45°-90°:

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.6	4.0
10°-20°	526.5	9.3
20°-30°	604.1	10.7
30°-40°	595.5	10.5
40°-50°	525.1	9.3
50°-60°	404.0	7.1
60°-70°	265.6	4.7
70°-80°	129.0	2.3
80°-90°	34.1	0.6
90°-100°	27.1	0.5
100°-110°	130.8	2.3
110°-120°	320.7	5.7
120°-130°	407.2	7.2
130°-140°	435.0	7.7
140°-150°	406.7	7.2
150°-160°	328.1	5.8
160°-170°	211.7	3.7
170°-180°	73.0	1.3
0°-30°	1358.2	24.0
0°-40°	1953.7	34.6
0°-60°	2882.8	51.0
0°-90°	3311.5	58.6
90°-120°	478.6	8.5
90°-150°	1727.5	30.6
90°-180°	2340.0	41.4
0°-180°	5651.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2496	2496	2496	2496	2496	
5°	2953	2859	2503	2023	1878	270
15°	1786	2414	2389	1285	1067	504
25°	888	1329	2131	903	811	420
35°	642	810	1747	709	630	400
45°	456	571	1262	531	466	354
55°	304	392	784	368	291	273
65°	185	233	432	222	191	182
75°	81	98	196	102	84	87
85°	22	25	41	26	25	24
90°	17	14	1	14	17	9
95°	22	18	35	18	22	18
105°	25	125	170	125	25	52
115°	335	327	319	327	335	315
125°	459	456	449	456	459	410
135°	565	565	560	565	565	436
145°	652	651	646	651	652	407
155°	710	711	711	711	710	328
165°	748	748	750	748	748	211
175°	765	765	768	765	765	73
180°	768	768	768	768	768	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5
2.5°	2766.7	2758.0	2749.3	2746.7	2744.2	2736.0	2727.8	2709.4	2690.9	2672.0	2653.1
5°	2953.0	2954.0	2955.0	2952.5	2949.9	2939.2	2928.4	2905.9	2883.4	2858.8	2834.2
7.5°	2895.7	2912.0	2928.4	2931.5	2934.6	2942.7	2950.9	2945.8	2940.7	2931.5	2922.3
10°	2644.9	2643.9	2642.8	2661.3	2679.7	2734.5	2789.2	2817.4	2845.5	2870.6	2895.7
12.5°	2235.5	2237.0	2238.5	2298.9	2359.3	2411.0	2462.7	2534.3	2606.0	2683.3	2760.6
15°	1786.1	1811.2	1836.3	1890.0	1943.7	2021.5	2099.3	2195.5	2291.8	2414.1	2536.4
17.5°	1466.8	1477.5	1488.3	1540.0	1591.6	1665.3	1739.0	1848.0	1957.1	2114.7	2272.3
20°	1208.8	1218.6	1228.3	1265.6	1303.0	1373.6	1444.2	1548.1	1652.0	1808.1	1964.2
22.5°	1009.2	1028.2	1047.1	1072.2	1097.3	1148.4	1199.6	1305.6	1411.5	1553.8	1696.0
25°	888.5	897.2	905.9	927.3	948.8	998.0	1047.1	1117.2	1187.3	1329.1	1470.9
27.5°	806.6	809.1	811.7	827.6	843.4	875.1	906.9	971.9	1036.9	1153.6	1270.2
30°	739.0	743.6	748.2	760.5	772.8	795.8	818.9	864.9	911.0	1015.4	1119.8
32.5°	686.8	689.4	691.9	702.2	712.4	729.3	746.2	782.5	818.9	898.7	978.5
35°	641.8	642.3	642.8	650.5	658.2	674.5	690.9	721.1	751.3	810.2	869.0
37.5°	590.6	594.2	597.8	603.4	609.0	623.4	637.7	662.2	686.8	735.4	784.0
40°	547.6	550.7	553.7	560.4	567.1	578.3	589.6	612.1	634.6	676.6	718.5
42.5°	504.6	506.7	508.7	515.4	522.0	535.8	549.7	567.6	585.5	620.3	655.1
45°	456.5	461.6	466.7	473.9	481.1	492.8	504.6	523.0	541.5	571.1	600.8
47.5°	416.6	419.1	421.7	427.8	434.0	448.3	462.7	479.0	495.4	523.0	550.7
50°	376.7	377.7	378.7	384.3	390.0	402.8	415.6	434.5	453.4	479.0	504.6
52.5°	338.8	341.4	343.9	349.5	355.2	363.9	372.6	392.0	411.5	436.6	461.6
55°	304.0	305.5	307.1	311.2	315.3	325.5	335.7	352.6	369.5	392.5	415.6
57.5°	271.2	273.3	275.3	278.4	281.5	290.7	299.9	314.7	329.6	352.6	375.6
60°	237.5	240.0	242.6	246.2	249.7	256.9	264.1	277.4	290.7	311.2	331.6
62.5°	212.9	213.4	213.9	217.0	220.1	225.2	230.3	241.0	251.8	272.3	292.7
65°	185.3	186.8	188.3	189.9	191.4	195.5	199.6	208.8	218.0	233.4	248.7
67.5°	156.6	158.1	159.7	162.2	164.8	168.4	172.0	178.1	184.2	198.6	212.9
70°	121.8	121.8	121.8	125.9	130.0	136.1	142.3	146.9	151.5	163.3	175.0
72.5°	99.3	99.8	100.3	100.8	101.3	104.9	108.5	116.2	123.9	131.0	138.2
75°	80.9	81.4	81.9	82.4	82.9	83.9	85.0	87.5	90.1	98.3	106.5
77.5°	64.5	65.0	65.5	66.0	66.5	67.6	68.6	69.6	70.6	73.7	76.8
80°	49.1	49.6	50.2	50.7	51.2	51.7	52.2	53.2	54.2	55.8	57.3
82.5°	35.8	35.8	35.8	35.8	35.8	36.8	37.9	37.9	37.9	38.9	39.9
85°	22.5	22.5	22.5	23.0	23.5	23.5	23.5	24.1	24.6	24.6	24.6
87.5°	10.2	9.7	9.2	9.7	10.2	10.2	10.2	10.7	11.3	11.3	11.3
90°	17.1	16.9	16.6	16.4	16.1	15.7	15.2	14.7	14.2	13.7	12.0
92.5°	19.4	19.3	19.1	19.0	18.9	18.4	17.5	16.6	15.7	14.8	13.7
95°	21.7	21.7	21.7	21.7	21.7	21.2	20.3	19.5	18.6	17.7	16.3
97.5°	23.4	23.3	23.1	23.0	22.9	22.3	21.3	20.3	19.3	18.3	24.7
100°	24.0	23.8	23.7	23.6	23.4	22.9	21.9	20.8	19.8	18.8	38.6
102.5°	24.5	24.3	24.0	23.8	23.5	25.5	29.7	33.8	38.0	42.2	64.3
105°	25.1	24.8	24.6	24.3	24.1	35.2	57.6	80.0	102.5	124.9	136.3
107.5°	59.3	75.9	92.5	109.1	125.7	143.8	163.3	182.8	202.3	221.9	220.0
110°	156.8	175.0	193.1	211.2	229.3	240.5	244.7	248.9	253.0	257.2	255.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	297.2	297.4	297.7	297.9	298.2	297.7	296.6	295.4	294.3	293.2	291.8
115°	335.4	334.9	334.4	333.8	333.3	332.5	331.2	329.9	328.7	327.4	326.2
117.5°	366.2	366.0	365.9	365.8	365.7	365.1	364.1	363.1	362.0	361.0	360.4
120°	398.1	398.1	398.1	398.1	398.1	397.6	396.6	395.6	394.6	393.5	393.2
122.5°	429.5	429.4	429.2	429.1	429.0	428.6	428.0	427.3	426.7	426.1	425.5
125°	458.6	458.3	458.1	457.8	457.6	457.3	457.0	456.8	456.5	456.3	455.8
127.5°	487.1	487.3	487.6	487.8	488.1	488.0	487.7	487.3	486.9	486.5	485.9
130°	514.5	514.7	515.0	515.2	515.5	515.3	514.8	514.3	513.8	513.3	512.8
132.5°	539.6	539.9	540.3	540.7	541.1	541.0	540.5	540.0	539.5	539.0	538.6
135°	565.2	565.6	566.0	566.4	566.7	566.7	566.4	566.0	565.6	565.2	564.7
137.5°	589.7	590.0	590.3	590.5	590.8	590.6	589.9	589.3	588.7	588.0	587.8
140°	611.4	611.7	611.9	612.2	612.4	612.3	611.8	611.3	610.8	610.3	609.9
142.5°	631.4	631.8	632.1	632.5	632.9	632.9	632.5	632.1	631.8	631.4	631.0
145°	651.9	651.9	651.9	651.9	651.9	651.8	651.5	651.3	651.0	650.8	650.5
147.5°	666.7	667.4	668.0	668.6	669.3	669.5	669.2	669.0	668.7	668.5	668.2
150°	683.9	684.2	684.6	685.0	685.4	685.4	685.2	684.9	684.7	684.4	684.2
152.5°	697.5	698.2	698.8	699.4	700.1	700.1	699.6	699.1	698.6	698.1	698.0
155°	710.1	710.9	711.6	712.4	713.1	713.2	712.6	711.9	711.3	710.7	710.5
157.5°	720.9	721.9	723.0	724.0	725.0	725.1	724.4	723.6	722.8	722.1	722.2
160°	731.2	732.1	733.0	733.9	734.7	734.8	734.0	733.3	732.5	731.8	731.9
162.5°	740.9	741.7	742.4	743.2	743.9	743.9	743.0	742.1	741.2	740.3	740.4
165°	748.3	749.2	750.1	751.0	751.9	751.8	750.8	749.8	748.8	747.7	747.9
167.5°	754.0	755.0	756.0	757.1	758.1	758.1	757.1	756.0	755.0	754.0	754.0
170°	759.1	760.2	761.2	762.2	763.2	763.2	762.2	761.2	760.2	759.1	759.1
172.5°	762.0	763.1	764.3	765.4	766.6	766.6	765.6	764.6	763.6	762.6	762.4
175°	764.8	765.9	766.9	767.9	768.9	769.0	768.1	767.2	766.3	765.4	765.3
177.5°	765.4	766.7	768.0	769.2	770.5	770.6	769.6	768.6	767.6	766.6	766.4
180°	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5
2.5°	2650.5	2648.0	2623.4	2598.8	2574.8	2550.7	2532.8	2514.9	2484.7	2454.5	2435.6
5°	2814.8	2795.4	2756.5	2717.6	2659.2	2600.9	2551.7	2502.6	2440.2	2377.7	2325.5
7.5°	2906.4	2890.5	2843.5	2796.4	2719.1	2641.8	2565.1	2488.3	2396.2	2304.0	2225.2
10°	2909.0	2922.3	2883.4	2844.5	2757.5	2670.5	2566.1	2461.7	2337.8	2214.0	2112.1
12.5°	2817.9	2875.2	2867.0	2858.8	2770.3	2681.7	2554.8	2427.9	2275.9	2123.9	1996.5
15°	2647.4	2758.5	2791.3	2824.0	2750.8	2677.6	2533.3	2389.0	2210.4	2031.8	1885.4
17.5°	2427.9	2583.5	2670.0	2756.5	2703.2	2650.0	2491.9	2333.7	2132.6	1931.5	1772.3
20°	2167.9	2371.6	2507.2	2642.8	2623.4	2603.9	2440.7	2277.4	2060.4	1843.4	1671.0
22.5°	1911.0	2125.9	2313.3	2500.6	2520.5	2540.5	2375.7	2210.9	1973.4	1736.0	1560.4
25°	1689.4	1907.9	2131.1	2354.2	2399.2	2444.3	2287.7	2131.1	1884.9	1638.7	1464.2
27.5°	1478.0	1685.8	1931.5	2177.1	2259.0	2340.9	2197.6	2054.3	1797.9	1541.5	1367.5
30°	1305.6	1491.3	1742.1	1992.9	2107.0	2221.1	2089.6	1958.1	1703.7	1449.4	1278.9
32.5°	1144.9	1311.2	1563.0	1814.8	1947.3	2079.9	1966.3	1852.7	1608.0	1363.4	1195.0
35°	1017.9	1166.9	1401.8	1636.7	1785.1	1933.5	1840.4	1747.2	1508.2	1269.2	1110.1
37.5°	908.9	1033.8	1254.4	1475.0	1632.6	1790.2	1712.4	1634.6	1410.0	1185.3	1034.8
40°	818.9	919.2	1124.4	1329.6	1484.2	1638.7	1572.2	1505.7	1304.5	1103.4	962.7
42.5°	741.6	828.1	1012.3	1196.5	1338.3	1480.1	1436.1	1392.0	1209.9	1027.7	897.2
45°	673.5	746.2	908.4	1070.6	1201.2	1331.7	1296.9	1262.1	1104.9	947.8	828.1
47.5°	613.1	675.6	820.4	965.2	1082.4	1199.6	1167.4	1135.1	1005.1	875.1	766.1
50°	557.8	611.1	731.8	852.6	958.1	1063.5	1036.9	1010.3	902.8	795.3	701.1
52.5°	505.6	549.7	658.2	766.6	851.6	936.6	916.1	895.6	812.7	729.8	644.3
55°	456.0	496.4	588.0	679.6	752.3	825.0	804.5	784.0	719.6	655.1	579.8
57.5°	411.0	446.3	520.5	594.7	652.5	710.4	700.6	690.9	637.2	583.4	521.5
60°	363.4	395.1	459.1	523.0	569.6	616.2	604.9	593.7	555.3	516.9	463.7
62.5°	320.9	349.0	400.2	451.4	489.3	527.1	518.9	510.8	481.6	452.4	408.4
65°	276.4	304.0	345.5	386.9	416.6	446.3	439.1	431.9	409.9	387.9	352.6
67.5°	235.9	259.0	294.8	330.6	350.6	370.5	366.4	362.3	345.5	328.6	300.9
70°	195.0	214.9	244.6	274.3	288.1	302.0	303.5	305.0	289.7	274.3	253.8
72.5°	154.0	169.9	197.5	225.2	235.9	246.7	246.2	245.7	236.4	227.2	208.8
75°	118.2	130.0	151.5	173.0	182.2	191.4	193.5	195.5	186.8	178.1	167.9
77.5°	85.0	93.1	109.5	125.9	136.1	146.4	147.4	148.4	144.3	140.2	130.5
80°	59.9	62.4	72.7	82.9	93.7	104.4	105.9	107.5	103.4	99.3	93.1
82.5°	41.5	43.0	46.6	50.2	58.9	67.6	69.6	71.6	69.6	67.6	60.9
85°	25.1	25.6	27.1	28.7	32.8	36.8	38.9	40.9	39.9	38.9	35.3
87.5°	11.3	11.3	11.8	12.3	13.3	14.3	16.9	19.4	17.9	16.4	14.8
90°	10.4	8.7	7.1	5.6	4.4	3.1	1.8	0.6	1.8	3.1	4.4
92.5°	12.5	11.4	10.3	10.1	10.8	11.6	12.4	13.1	12.4	11.6	10.8
95°	14.9	13.5	12.1	14.0	19.2	24.4	29.6	34.8	29.6	24.4	19.2
97.5°	31.2	37.6	44.1	49.1	52.7	56.2	59.8	63.3	59.8	56.2	52.7
100°	58.4	78.1	97.9	106.5	104.0	101.5	98.9	96.4	98.9	101.5	104.0
102.5°	86.3	108.4	130.4	140.6	139.0	137.3	135.7	134.0	135.7	137.3	139.0
105°	147.7	159.1	170.5	175.5	174.1	172.8	171.4	170.0	171.4	172.8	174.1
107.5°	218.1	216.2	214.3	212.7	211.6	210.5	209.3	208.2	209.3	210.5	211.6
110°	254.4	253.0	251.7	250.4	249.4	248.4	247.4	246.4	247.4	248.4	249.4



TEST NUMBER: P832389

CATALOG NUMBER: S123RDIP-S775D585U835-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	290.4	289.0	287.6	286.4	285.6	284.7	283.8	282.9	283.8	284.7	285.6
115°	325.1	324.0	322.8	321.9	321.1	320.3	319.6	318.8	319.6	320.3	321.1
117.5°	359.8	359.1	358.5	357.7	356.9	356.0	355.1	354.2	355.1	356.0	356.9
120°	392.8	392.4	392.0	391.3	390.1	389.0	387.8	386.7	387.8	389.0	390.1
122.5°	425.0	424.5	424.0	423.3	422.4	421.6	420.7	419.8	420.7	421.6	422.4
125°	455.3	454.8	454.3	453.5	452.5	451.5	450.5	449.4	450.5	451.5	452.5
127.5°	485.2	484.6	484.0	483.2	482.1	481.1	480.1	479.1	480.1	481.1	482.1
130°	512.3	511.8	511.3	510.5	509.5	508.5	507.5	506.5	507.5	508.5	509.5
132.5°	538.2	537.8	537.5	536.8	535.8	534.7	533.7	532.7	533.7	534.7	535.8
135°	564.2	563.7	563.2	562.6	561.8	561.0	560.3	559.5	560.3	561.0	561.8
137.5°	587.5	587.3	587.0	586.4	585.4	584.4	583.3	582.3	583.3	584.4	585.4
140°	609.5	609.1	608.8	608.2	607.4	606.7	605.9	605.1	605.9	606.7	607.4
142.5°	630.6	630.2	629.9	629.3	628.5	627.8	627.0	626.3	627.0	627.8	628.5
145°	650.3	650.0	649.8	649.2	648.3	647.4	646.5	645.6	646.5	647.4	648.3
147.5°	667.9	667.7	667.4	667.0	666.4	665.7	665.1	664.5	665.1	665.7	666.4
150°	683.9	683.7	683.4	683.1	682.7	682.3	682.0	681.6	682.0	682.3	682.7
152.5°	697.9	697.7	697.6	697.5	697.4	697.2	697.1	697.0	697.1	697.2	697.4
155°	710.4	710.3	710.2	710.2	710.5	710.7	711.0	711.2	711.0	710.7	710.5
157.5°	722.3	722.5	722.6	722.6	722.6	722.6	722.6	722.6	722.6	722.6	722.6
160°	732.0	732.1	732.3	732.4	732.5	732.7	732.8	732.9	732.8	732.7	732.5
162.5°	740.6	740.7	740.8	741.1	741.5	741.8	742.2	742.6	742.2	741.8	741.5
165°	748.0	748.1	748.2	748.5	748.9	749.3	749.6	750.0	749.6	749.3	748.9
167.5°	754.0	754.0	754.0	754.3	754.8	755.3	755.8	756.3	755.8	755.3	754.8
170°	759.1	759.1	759.1	759.4	759.9	760.4	760.9	761.4	760.9	760.4	759.9
172.5°	762.3	762.2	762.1	762.3	762.9	763.6	764.2	764.8	764.2	763.6	762.9
175°	765.2	765.0	764.9	765.2	765.8	766.4	767.1	767.7	767.1	766.4	765.8
177.5°	766.3	766.2	766.1	766.3	766.9	767.6	768.2	768.8	768.2	767.6	766.9
180°	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7



TEST NUMBER: P832389

CATALOG NUMBER: S123RDIP-S775D585U835-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5	2496.5
2.5°	2416.6	2387.5	2358.3	2337.3	2316.3	2290.2	2264.1	2263.1	2262.1	2242.6	2223.2
5°	2273.3	2222.7	2172.0	2122.4	2072.7	2023.1	1973.4	1962.2	1950.9	1934.0	1917.1
7.5°	2146.4	2065.6	1984.7	1921.2	1857.8	1808.1	1758.5	1724.7	1690.9	1664.8	1638.7
10°	2010.3	1910.0	1809.7	1732.9	1656.1	1602.4	1548.7	1509.8	1470.9	1452.4	1434.0
12.5°	1869.0	1760.0	1651.0	1575.8	1500.5	1436.1	1371.6	1336.3	1300.9	1275.4	1249.8
15°	1739.0	1621.8	1504.6	1424.8	1345.0	1284.6	1224.2	1188.9	1153.6	1128.0	1102.4
17.5°	1613.1	1494.9	1376.7	1295.8	1215.0	1160.2	1105.4	1071.2	1036.9	1021.0	1005.1
20°	1498.5	1379.3	1260.0	1183.8	1107.5	1053.8	1000.0	981.6	963.2	948.3	933.5
22.5°	1384.9	1270.2	1155.6	1082.4	1009.2	970.3	931.4	916.6	901.8	890.5	879.2
25°	1289.7	1175.6	1061.4	997.5	933.5	903.3	873.1	863.4	853.7	842.4	831.1
27.5°	1193.5	1085.0	976.5	925.3	874.1	849.6	825.0	812.7	800.4	791.2	782.0
30°	1108.5	1008.2	907.9	865.4	822.9	801.5	780.0	766.6	753.3	744.6	735.9
32.5°	1026.6	937.6	848.5	812.2	775.9	754.9	733.9	721.1	708.3	698.1	687.8
35°	950.9	873.6	796.3	763.1	729.8	708.8	687.8	675.0	662.2	652.0	641.8
37.5°	884.4	814.2	744.1	712.9	681.7	663.3	644.8	631.5	618.2	607.5	596.7
40°	821.9	760.0	698.1	667.9	637.7	617.7	597.8	586.0	574.2	564.5	554.8
42.5°	766.6	709.8	653.0	623.4	593.7	574.7	555.8	542.0	528.2	522.5	516.9
45°	708.3	658.2	608.0	579.3	550.7	530.7	510.8	499.0	487.2	482.1	477.0
47.5°	657.1	610.6	564.0	535.8	507.7	489.8	471.9	462.7	453.4	446.3	439.1
50°	607.0	561.9	516.9	489.8	462.7	447.3	431.9	420.7	409.4	404.3	399.2
52.5°	558.9	517.9	477.0	449.3	421.7	406.9	392.0	382.3	372.6	361.8	351.1
55°	504.6	468.8	433.0	408.4	383.8	368.5	353.1	341.9	330.6	319.4	308.1
57.5°	459.6	424.3	389.0	366.9	344.9	330.1	315.3	303.0	290.7	281.5	272.3
60°	410.4	379.7	349.0	327.5	306.0	291.7	277.4	265.6	253.8	249.2	244.6
62.5°	364.4	335.7	307.1	288.1	269.2	255.4	241.6	233.9	226.2	223.1	220.1
65°	317.3	292.7	268.2	250.8	233.4	221.6	209.8	206.2	202.7	200.1	197.5
67.5°	273.3	252.3	231.3	216.0	200.6	192.4	184.2	180.1	176.1	173.0	169.9
70°	233.4	214.9	196.5	183.2	169.9	162.2	154.6	151.0	147.4	141.8	136.1
72.5°	190.4	176.1	161.7	151.5	141.3	134.6	127.9	120.8	113.6	108.5	103.4
75°	157.6	143.3	129.0	119.2	109.5	101.8	94.2	91.6	89.1	87.5	86.0
77.5°	120.8	108.5	96.2	88.5	80.9	77.3	73.7	72.2	70.6	70.1	69.6
80°	87.0	76.8	66.5	62.4	58.3	57.3	56.3	55.3	54.2	53.7	53.2
82.5°	54.2	49.1	44.0	43.0	42.0	41.5	40.9	40.4	39.9	39.4	38.9
85°	31.7	29.7	27.6	27.1	26.6	26.1	25.6	25.6	25.6	25.6	25.6
87.5°	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	12.8	12.3
90°	5.6	7.1	8.7	10.4	12.0	13.7	14.2	14.7	15.2	15.7	16.1
92.5°	10.1	10.3	11.4	12.5	13.7	14.8	15.7	16.6	17.5	18.4	18.9
95°	14.0	12.1	13.5	14.9	16.3	17.7	18.6	19.5	20.3	21.2	21.7
97.5°	49.1	44.1	37.6	31.2	24.7	18.3	19.3	20.3	21.3	22.3	22.9
100°	106.5	97.9	78.1	58.4	38.6	18.8	19.8	20.8	21.9	22.9	23.4
102.5°	140.6	130.4	108.4	86.3	64.3	42.2	38.0	33.8	29.7	25.5	23.5
105°	175.5	170.5	159.1	147.7	136.3	124.9	102.5	80.0	57.6	35.2	24.1
107.5°	212.7	214.3	216.2	218.1	220.0	221.9	202.3	182.8	163.3	143.8	125.7
110°	250.4	251.7	253.0	254.4	255.8	257.2	253.0	248.9	244.7	240.5	229.3



TEST NUMBER: P832389

CATALOG NUMBER: S123RDIP-S775D585U835-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	286.4	287.6	289.0	290.4	291.8	293.2	294.3	295.4	296.6	297.7	298.2
115°	321.9	322.8	324.0	325.1	326.2	327.4	328.7	329.9	331.2	332.5	333.3
117.5°	357.7	358.5	359.1	359.8	360.4	361.0	362.0	363.1	364.1	365.1	365.7
120°	391.3	392.0	392.4	392.8	393.2	393.5	394.6	395.6	396.6	397.6	398.1
122.5°	423.3	424.0	424.5	425.0	425.5	426.1	426.7	427.3	428.0	428.6	429.0
125°	453.5	454.3	454.8	455.3	455.8	456.3	456.5	456.8	457.0	457.3	457.6
127.5°	483.2	484.0	484.6	485.2	485.9	486.5	486.9	487.3	487.7	488.0	488.1
130°	510.5	511.3	511.8	512.3	512.8	513.3	513.8	514.3	514.8	515.3	515.5
132.5°	536.8	537.5	537.8	538.2	538.6	539.0	539.5	540.0	540.5	541.0	541.1
135°	562.6	563.2	563.7	564.2	564.7	565.2	565.6	566.0	566.4	566.7	566.7
137.5°	586.4	587.0	587.3	587.5	587.8	588.0	588.7	589.3	589.9	590.6	590.8
140°	608.2	608.8	609.1	609.5	609.9	610.3	610.8	611.3	611.8	612.3	612.4
142.5°	629.3	629.9	630.2	630.6	631.0	631.4	631.8	632.1	632.5	632.9	632.9
145°	649.2	649.8	650.0	650.3	650.5	650.8	651.0	651.3	651.5	651.8	651.9
147.5°	667.0	667.4	667.7	667.9	668.2	668.5	668.7	669.0	669.2	669.5	669.3
150°	683.1	683.4	683.7	683.9	684.2	684.4	684.7	684.9	685.2	685.4	685.4
152.5°	697.5	697.6	697.7	697.9	698.0	698.1	698.6	699.1	699.6	700.1	700.1
155°	710.2	710.2	710.3	710.4	710.5	710.7	711.3	711.9	712.6	713.2	713.1
157.5°	722.6	722.6	722.5	722.3	722.2	722.1	722.8	723.6	724.4	725.1	725.0
160°	732.4	732.3	732.1	732.0	731.9	731.8	732.5	733.3	734.0	734.8	734.7
162.5°	741.1	740.8	740.7	740.6	740.4	740.3	741.2	742.1	743.0	743.9	743.9
165°	748.5	748.2	748.1	748.0	747.9	747.7	748.8	749.8	750.8	751.8	751.9
167.5°	754.3	754.0	754.0	754.0	754.0	754.0	755.0	756.0	757.1	758.1	758.1
170°	759.4	759.1	759.1	759.1	759.1	759.1	760.2	761.2	762.2	763.2	763.2
172.5°	762.3	762.1	762.2	762.3	762.4	762.6	763.6	764.6	765.6	766.6	766.6
175°	765.2	764.9	765.0	765.2	765.3	765.4	766.3	767.2	768.1	769.0	768.9
177.5°	766.3	766.1	766.2	766.3	766.4	766.6	767.6	768.6	769.6	770.6	770.5
180°	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7



TEST NUMBER: P832389

CATALOG NUMBER: S123RDIP-S775D585U835-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	2496.5	2496.5	2496.5	2496.5
2.5°	2218.1	2212.9	2210.9	2208.9
5°	1901.3	1885.4	1881.8	1878.2
7.5°	1632.1	1625.4	1603.4	1581.4
10°	1413.5	1393.1	1383.9	1374.6
12.5°	1230.8	1211.9	1208.8	1205.8
15°	1089.1	1075.8	1071.2	1066.6
17.5°	995.9	986.7	981.1	975.5
20°	926.8	920.2	916.1	912.0
22.5°	874.1	869.0	865.9	862.9
25°	823.5	815.8	813.2	810.7
27.5°	775.3	768.7	766.1	763.6
30°	730.3	724.7	721.1	717.5
32.5°	681.2	674.5	672.5	670.4
35°	637.7	633.6	631.5	629.5
37.5°	591.6	586.5	583.4	580.4
40°	552.2	549.7	548.1	546.6
42.5°	512.3	507.7	507.2	506.7
45°	472.4	467.8	466.7	465.7
47.5°	435.0	430.9	430.4	429.9
50°	393.6	387.9	383.8	379.7
52.5°	346.0	340.8	337.3	333.7
55°	302.5	296.8	293.8	290.7
57.5°	269.7	267.2	265.6	264.1
60°	243.1	241.6	240.5	239.5
62.5°	218.5	217.0	217.0	217.0
65°	196.0	194.5	192.9	191.4
67.5°	166.8	163.8	163.3	162.7
70°	131.5	126.9	126.4	125.9
72.5°	102.9	102.4	101.3	100.3
75°	85.0	83.9	83.9	83.9
77.5°	68.6	67.6	67.6	67.6
80°	52.7	52.2	52.7	53.2
82.5°	38.9	38.9	38.4	37.9
85°	25.1	24.6	24.6	24.6
87.5°	12.3	12.3	12.3	12.3
90°	16.4	16.6	16.9	17.1
92.5°	19.0	19.1	19.3	19.4
95°	21.7	21.7	21.7	21.7
97.5°	23.0	23.1	23.3	23.4
100°	23.6	23.7	23.8	24.0
102.5°	23.8	24.0	24.3	24.5
105°	24.3	24.6	24.8	25.1
107.5°	109.1	92.5	75.9	59.3
110°	211.2	193.1	175.0	156.8



TEST NUMBER: P832389

CATALOG NUMBER: S123RDIP-S775D585U835-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
112.5°	297.9	297.7	297.4	297.2
115°	333.8	334.4	334.9	335.4
117.5°	365.8	365.9	366.0	366.2
120°	398.1	398.1	398.1	398.1
122.5°	429.1	429.2	429.4	429.5
125°	457.8	458.1	458.3	458.6
127.5°	487.8	487.6	487.3	487.1
130°	515.2	515.0	514.7	514.5
132.5°	540.7	540.3	539.9	539.6
135°	566.4	566.0	565.6	565.2
137.5°	590.5	590.3	590.0	589.7
140°	612.2	611.9	611.7	611.4
142.5°	632.5	632.1	631.8	631.4
145°	651.9	651.9	651.9	651.9
147.5°	668.6	668.0	667.4	666.7
150°	685.0	684.6	684.2	683.9
152.5°	699.4	698.8	698.2	697.5
155°	712.4	711.6	710.9	710.1
157.5°	724.0	723.0	721.9	720.9
160°	733.9	733.0	732.1	731.2
162.5°	743.2	742.4	741.7	740.9
165°	751.0	750.1	749.2	748.3
167.5°	757.1	756.0	755.0	754.0
170°	762.2	761.2	760.2	759.1
172.5°	765.4	764.3	763.1	762.0
175°	767.9	766.9	765.9	764.8
177.5°	769.2	768.0	766.7	765.4
180°	767.7	767.7	767.7	767.7



TEST NUMBER: P832389

CATALOG NUMBER: S123RDIP-S775D585U835-4F0-1E-UDD-G

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	12.95	13.83	13.85	14.73	15.88	17.62	18.49	18.51	19.40	20.55
	3H	14.18	14.96	15.08	15.88	17.05	19.12	19.90	20.02	20.82	21.99
	4H	14.56	15.30	15.48	16.22	17.40	19.61	20.35	20.53	21.27	22.45
	6H	14.85	15.53	15.78	16.45	17.65	19.93	20.61	20.86	21.53	22.73
	8H	14.93	15.58	15.87	16.52	17.72	20.01	20.65	20.94	21.59	22.79
	12H	14.99	15.60	15.93	16.54	17.76	20.04	20.66	20.98	21.59	22.81
4H	2H	13.68	14.42	14.61	15.34	16.52	17.62	18.36	18.54	19.28	20.46
	3H	15.06	15.67	15.99	16.62	17.82	19.28	19.89	20.21	20.84	22.04
	4H	15.51	16.07	16.46	17.02	18.24	19.89	20.45	20.83	21.39	22.62
	6H	15.88	16.36	16.84	17.33	18.56	20.33	20.81	21.29	21.78	23.00
	8H	16.01	16.46	16.97	17.42	18.66	20.46	20.91	21.42	21.87	23.11
	12H	16.09	16.49	17.06	17.47	18.71	20.52	20.93	21.50	21.91	23.15
8H	4H	15.83	16.28	16.79	17.24	18.48	19.86	20.31	20.82	21.27	22.50
	6H	16.30	16.67	17.28	17.67	18.90	20.36	20.73	21.34	21.73	22.96
	8H	16.49	16.82	17.48	17.81	19.06	20.54	20.87	21.54	21.86	23.11
	12H	16.63	16.92	17.63	17.90	19.20	20.66	20.95	21.66	21.93	23.23
12H	4H	15.84	16.25	16.82	17.23	18.47	19.81	20.21	20.79	21.19	22.43
	6H	16.35	16.68	17.35	17.67	18.93	20.33	20.66	21.32	21.65	22.90
	8H	16.58	16.86	17.57	17.85	19.15	20.53	20.81	21.52	21.80	23.10