

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: P832390

Luminaire Tested: S123RDIP-S775D585U835-4F0-1E-UDD-G1

Issue Date: 05/03/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P832390  
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-S775D585U835-4F0-1E-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**

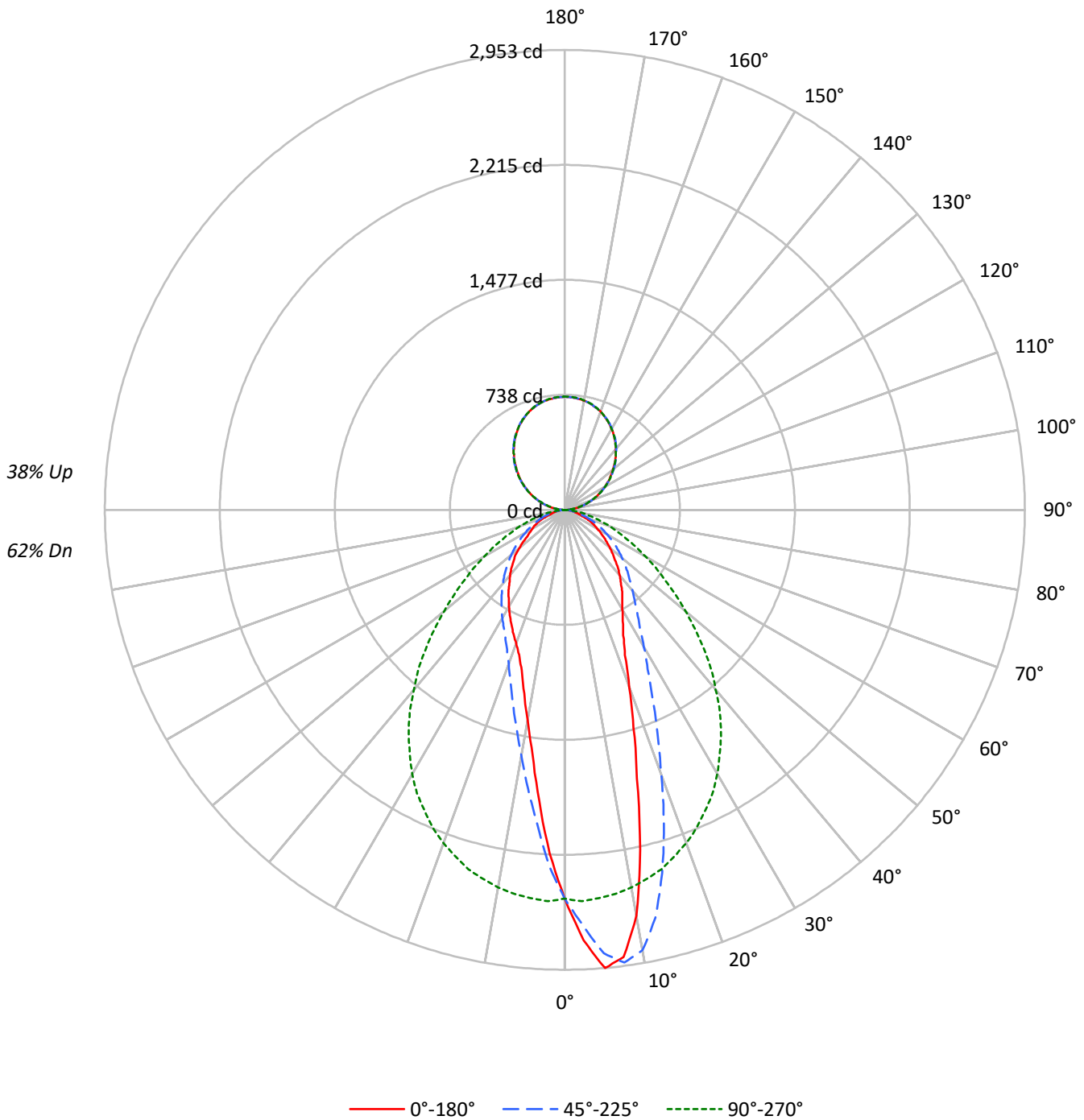
Lumens per Lamp: N/A  
Luminaire Lumens: 5323.4 lumens  
Efficiency: N/A  
Efficacy: 129.5 lumens/watt  
Spacing Criteria (0/90/45): 0.55 / 1.17 / 0.8  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Direct

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	
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	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°	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	4.3
10°-20°	526.5	9.9
20°-30°	604.1	11.3
30°-40°	595.5	11.2
40°-50°	525.1	9.9
50°-60°	404.0	7.6
60°-70°	265.6	5.0
70°-80°	129.0	2.4
80°-90°	34.1	0.6
90°-100°	46.7	0.9
100°-110°	141.5	2.7
110°-120°	240.8	4.5
120°-130°	316.8	6.0
130°-140°	356.1	6.7
140°-150°	350.1	6.6
150°-160°	294.8	5.5
160°-170°	196.2	3.7
170°-180°	68.7	1.3
0°-30°	1358.2	25.5
0°-40°	1953.7	36.7
0°-60°	2882.8	54.2
0°-90°	3311.5	62.2
90°-120°	429.0	8.1
90°-150°	1452.2	27.3
90°-180°	2012.0	37.8
0°-180°	5323.4	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°	44	42	34	42	44	45
105°	136	135	128	135	136	144
115°	243	243	242	243	243	241
125°	351	355	355	355	351	314
135°	460	463	460	463	460	354
145°	558	561	558	561	558	349
155°	638	640	639	640	638	294
165°	694	695	696	695	694	196
175°	722	722	724	722	722	69
180°	726	726	726	726	726	



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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°	24.5	24.8	25.0	25.3	25.5	25.5	25.1	24.7	24.3	24.0	23.2
95°	44.5	44.5	44.5	44.5	44.5	44.2	43.7	43.2	42.7	42.2	41.2
97.5°	63.9	64.0	64.1	64.3	64.4	64.1	63.5	62.9	62.2	61.6	60.8
100°	86.7	86.4	86.2	85.9	85.7	85.4	85.0	84.6	84.2	83.8	83.2
102.5°	110.1	110.2	110.3	110.5	110.6	110.5	110.1	109.7	109.3	108.9	108.1
105°	135.8	135.5	135.2	135.0	134.7	134.6	134.6	134.6	134.6	134.6	133.5
107.5°	162.0	162.1	162.2	162.4	162.5	162.4	162.0	161.6	161.2	160.9	160.3
110°	188.8	189.1	189.3	189.6	189.8	189.7	189.2	188.7	188.2	187.7	187.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	217.3	217.3	217.3	217.3	217.3	217.0	216.4	215.7	215.1	214.5	214.5
115°	243.0	243.1	243.2	243.4	243.5	243.5	243.4	243.2	243.1	243.0	243.2
117.5°	269.2	269.6	270.0	270.4	270.7	270.9	270.9	270.9	270.9	270.9	271.2
120°	297.2	297.4	297.7	297.9	298.2	298.4	298.5	298.6	298.8	298.9	299.5
122.5°	324.0	324.4	324.7	325.1	325.5	325.9	326.3	326.6	327.0	327.4	327.7
125°	350.8	351.3	351.8	352.3	352.8	353.3	353.8	354.3	354.8	355.4	355.6
127.5°	377.6	378.1	378.6	379.1	379.6	380.3	381.0	381.8	382.5	383.3	383.6
130°	403.8	404.7	405.6	406.5	407.4	408.1	408.6	409.1	409.6	410.1	410.5
132.5°	431.2	431.8	432.5	433.1	433.8	434.4	435.0	435.7	436.3	436.9	437.2
135°	459.7	460.0	460.2	460.5	460.7	461.1	461.6	462.1	462.7	463.2	463.3
137.5°	484.8	485.2	485.6	486.0	486.4	486.9	487.5	488.1	488.8	489.4	489.0
140°	509.4	510.2	511.1	512.0	512.9	513.4	513.5	513.7	513.8	513.9	513.8
142.5°	534.5	535.1	535.7	536.4	537.0	537.4	537.5	537.6	537.8	537.9	537.6
145°	558.4	558.9	559.4	559.9	560.4	560.8	560.9	561.0	561.1	561.3	560.9
147.5°	580.1	580.8	581.6	582.4	583.1	583.5	583.5	583.5	583.5	583.5	583.1
150°	600.6	601.4	602.1	602.9	603.7	604.0	604.0	604.0	604.0	604.0	603.8
152.5°	620.6	621.2	621.9	622.5	623.1	623.3	623.1	622.8	622.5	622.3	622.2
155°	638.3	639.2	640.0	640.9	641.8	642.0	641.5	641.0	640.5	640.0	639.9
157.5°	654.8	655.6	656.3	657.1	657.9	658.0	657.5	657.0	656.5	655.9	655.8
160°	670.8	671.3	671.8	672.3	672.8	672.7	672.1	671.5	670.8	670.2	670.2
162.5°	682.8	683.6	684.5	685.4	686.3	686.4	685.8	685.2	684.5	683.9	683.8
165°	694.2	695.1	695.9	696.8	697.7	697.8	697.0	696.3	695.5	694.7	694.7
167.5°	704.4	705.2	706.0	706.7	707.5	707.5	706.7	706.0	705.2	704.4	704.3
170°	711.8	712.7	713.6	714.5	715.4	715.4	714.5	713.6	712.7	711.8	711.8
172.5°	717.6	718.4	719.3	720.2	721.1	721.2	720.4	719.6	718.9	718.1	718.1
175°	721.5	722.4	723.3	724.2	725.1	725.2	724.4	723.6	722.9	722.1	722.1
177.5°	723.8	724.7	725.6	726.5	727.4	727.4	726.7	725.9	725.2	724.4	724.4
180°	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1



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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°	22.4	21.7	20.9	20.2	19.4	18.6	17.9	17.1	17.9	18.6	19.4
95°	40.2	39.2	38.2	37.2	36.3	35.4	34.5	33.7	34.5	35.4	36.3
97.5°	60.1	59.3	58.6	57.9	57.2	56.6	56.0	55.3	56.0	56.6	57.2
100°	82.6	81.9	81.3	80.6	79.9	79.1	78.3	77.6	78.3	79.1	79.9
102.5°	107.2	106.3	105.4	104.8	104.4	104.0	103.6	103.2	103.6	104.0	104.4
105°	132.3	131.2	130.0	129.4	129.1	128.8	128.6	128.3	128.6	128.8	129.1
107.5°	159.8	159.3	158.8	158.5	158.4	158.3	158.1	158.0	158.1	158.3	158.4
110°	187.2	186.9	186.6	186.4	186.1	185.9	185.6	185.4	185.6	185.9	186.1





TEST NUMBER: P832390

CATALOG NUMBER: S123RDIP-S775D585U835-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	214.5	214.5	214.5	214.4	214.3	214.2	214.0	213.9	214.0	214.2	214.3
115°	243.5	243.7	244.0	243.9	243.6	243.2	242.8	242.4	242.8	243.2	243.6
117.5°	271.4	271.7	271.9	272.0	271.9	271.8	271.6	271.5	271.6	271.8	271.9
120°	300.2	300.8	301.4	301.4	300.6	299.8	299.1	298.3	299.1	299.8	300.6
122.5°	327.9	328.2	328.4	328.3	327.8	327.3	326.8	326.3	326.8	327.3	327.8
125°	355.9	356.1	356.4	356.3	355.9	355.5	355.2	354.8	355.2	355.5	355.9
127.5°	383.8	384.1	384.3	384.1	383.3	382.5	381.8	381.0	381.8	382.5	383.3
130°	410.9	411.3	411.6	411.3	410.3	409.3	408.3	407.3	408.3	409.3	410.3
132.5°	437.4	437.7	437.9	437.6	436.5	435.5	434.5	433.5	434.5	435.5	436.5
135°	463.4	463.5	463.7	463.3	462.6	461.8	461.1	460.3	461.1	461.8	462.6
137.5°	488.6	488.3	487.9	487.4	486.7	486.1	485.5	484.8	485.5	486.1	486.7
140°	513.7	513.5	513.4	513.0	512.4	511.8	511.1	510.5	511.1	511.8	512.4
142.5°	537.4	537.1	536.9	536.4	535.8	535.2	534.5	533.9	534.5	535.2	535.8
145°	560.5	560.1	559.7	559.4	559.2	558.9	558.7	558.4	558.7	558.9	559.2
147.5°	582.7	582.4	582.0	581.5	581.0	580.5	580.0	579.5	580.0	580.5	581.0
150°	603.5	603.3	603.0	602.8	602.5	602.3	602.0	601.8	602.0	602.3	602.5
152.5°	622.0	621.9	621.8	621.5	621.2	620.8	620.4	620.0	620.4	620.8	621.2
155°	639.7	639.6	639.5	639.4	639.4	639.4	639.4	639.4	639.4	639.4	639.4
157.5°	655.7	655.6	655.4	655.4	655.6	655.7	655.8	655.9	655.8	655.7	655.6
160°	670.2	670.2	670.2	670.3	670.6	670.8	671.1	671.3	671.1	670.8	670.6
162.5°	683.6	683.5	683.4	683.5	683.9	684.3	684.7	685.0	684.7	684.3	683.9
165°	694.7	694.7	694.7	694.9	695.3	695.7	696.1	696.4	696.1	695.7	695.3
167.5°	704.2	704.1	703.9	704.1	704.6	705.1	705.6	706.1	705.6	705.1	704.6
170°	711.8	711.8	711.8	712.1	712.6	713.1	713.6	714.1	713.6	713.1	712.6
172.5°	718.1	718.1	718.1	718.4	718.9	719.4	719.9	720.4	719.9	719.4	718.9
175°	722.1	722.1	722.1	722.4	722.9	723.4	723.9	724.4	723.9	723.4	722.9
177.5°	724.4	724.4	724.4	724.6	725.2	725.7	726.2	726.7	726.2	725.7	725.2
180°	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1



TEST NUMBER: P832390

CATALOG NUMBER: S123RDIP-S775D585U835-4F0-1E-UDD-G1

**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°	20.2	20.9	21.7	22.4	23.2	24.0	24.3	24.7	25.1	25.5	25.5
95°	37.2	38.2	39.2	40.2	41.2	42.2	42.7	43.2	43.7	44.2	44.5
97.5°	57.9	58.6	59.3	60.1	60.8	61.6	62.2	62.9	63.5	64.1	64.4
100°	80.6	81.3	81.9	82.6	83.2	83.8	84.2	84.6	85.0	85.4	85.7
102.5°	104.8	105.4	106.3	107.2	108.1	108.9	109.3	109.7	110.1	110.5	110.6
105°	129.4	130.0	131.2	132.3	133.5	134.6	134.6	134.6	134.6	134.6	134.7
107.5°	158.5	158.8	159.3	159.8	160.3	160.9	161.2	161.6	162.0	162.4	162.5
110°	186.4	186.6	186.9	187.2	187.4	187.7	188.2	188.7	189.2	189.7	189.8



TEST NUMBER: P832390

CATALOG NUMBER: S123RDIP-S775D585U835-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	214.4	214.5	214.5	214.5	214.5	214.5	215.1	215.7	216.4	217.0	217.3
115°	243.9	244.0	243.7	243.5	243.2	243.0	243.1	243.2	243.4	243.5	243.5
117.5°	272.0	271.9	271.7	271.4	271.2	270.9	270.9	270.9	270.9	270.9	270.7
120°	301.4	301.4	300.8	300.2	299.5	298.9	298.8	298.6	298.5	298.4	298.2
122.5°	328.3	328.4	328.2	327.9	327.7	327.4	327.0	326.6	326.3	325.9	325.5
125°	356.3	356.4	356.1	355.9	355.6	355.4	354.8	354.3	353.8	353.3	352.8
127.5°	384.1	384.3	384.1	383.8	383.6	383.3	382.5	381.8	381.0	380.3	379.6
130°	411.3	411.6	411.3	410.9	410.5	410.1	409.6	409.1	408.6	408.1	407.4
132.5°	437.6	437.9	437.7	437.4	437.2	436.9	436.3	435.7	435.0	434.4	433.8
135°	463.3	463.7	463.5	463.4	463.3	463.2	462.7	462.1	461.6	461.1	460.7
137.5°	487.4	487.9	488.3	488.6	489.0	489.4	488.8	488.1	487.5	486.9	486.4
140°	513.0	513.4	513.5	513.7	513.8	513.9	513.8	513.7	513.5	513.4	512.9
142.5°	536.4	536.9	537.1	537.4	537.6	537.9	537.8	537.6	537.5	537.4	537.0
145°	559.4	559.7	560.1	560.5	560.9	561.3	561.1	561.0	560.9	560.8	560.4
147.5°	581.5	582.0	582.4	582.7	583.1	583.5	583.5	583.5	583.5	583.5	583.1
150°	602.8	603.0	603.3	603.5	603.8	604.0	604.0	604.0	604.0	604.0	603.7
152.5°	621.5	621.8	621.9	622.0	622.2	622.3	622.5	622.8	623.1	623.3	623.1
155°	639.4	639.5	639.6	639.7	639.9	640.0	640.5	641.0	641.5	642.0	641.8
157.5°	655.4	655.4	655.6	655.7	655.8	655.9	656.5	657.0	657.5	658.0	657.9
160°	670.3	670.2	670.2	670.2	670.2	670.2	670.8	671.5	672.1	672.7	672.8
162.5°	683.5	683.4	683.5	683.6	683.8	683.9	684.5	685.2	685.8	686.4	686.3
165°	694.9	694.7	694.7	694.7	694.7	694.7	695.5	696.3	697.0	697.8	697.7
167.5°	704.1	703.9	704.1	704.2	704.3	704.4	705.2	706.0	706.7	707.5	707.5
170°	712.1	711.8	711.8	711.8	711.8	711.8	712.7	713.6	714.5	715.4	715.4
172.5°	718.4	718.1	718.1	718.1	718.1	718.1	718.9	719.6	720.4	721.2	721.1
175°	722.4	722.1	722.1	722.1	722.1	722.1	722.9	723.6	724.4	725.2	725.1
177.5°	724.6	724.4	724.4	724.4	724.4	724.4	725.2	725.9	726.7	727.4	727.4
180°	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1	726.1



TEST NUMBER: P832390

CATALOG NUMBER: S123RDIP-S775D585U835-4F0-1E-UDD-G1

**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°	25.3	25.0	24.8	24.5
95°	44.5	44.5	44.5	44.5
97.5°	64.3	64.1	64.0	63.9
100°	85.9	86.2	86.4	86.7
102.5°	110.5	110.3	110.2	110.1
105°	135.0	135.2	135.5	135.8
107.5°	162.4	162.2	162.1	162.0
110°	189.6	189.3	189.1	188.8



TEST NUMBER: P832390

CATALOG NUMBER: S123RDIP-S775D585U835-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
112.5°	217.3	217.3	217.3	217.3
115°	243.4	243.2	243.1	243.0
117.5°	270.4	270.0	269.6	269.2
120°	297.9	297.7	297.4	297.2
122.5°	325.1	324.7	324.4	324.0
125°	352.3	351.8	351.3	350.8
127.5°	379.1	378.6	378.1	377.6
130°	406.5	405.6	404.7	403.8
132.5°	433.1	432.5	431.8	431.2
135°	460.5	460.2	460.0	459.7
137.5°	486.0	485.6	485.2	484.8
140°	512.0	511.1	510.2	509.4
142.5°	536.4	535.7	535.1	534.5
145°	559.9	559.4	558.9	558.4
147.5°	582.4	581.6	580.8	580.1
150°	602.9	602.1	601.4	600.6
152.5°	622.5	621.9	621.2	620.6
155°	640.9	640.0	639.2	638.3
157.5°	657.1	656.3	655.6	654.8
160°	672.3	671.8	671.3	670.8
162.5°	685.4	684.5	683.6	682.8
165°	696.8	695.9	695.1	694.2
167.5°	706.7	706.0	705.2	704.4
170°	714.5	713.6	712.7	711.8
172.5°	720.2	719.3	718.4	717.6
175°	724.2	723.3	722.4	721.5
177.5°	726.5	725.6	724.7	723.8
180°	726.1	726.1	726.1	726.1



TEST NUMBER: P832390

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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	13.26	14.17	14.12	15.04	16.13	17.92	18.83	18.78	19.70	20.79
	3H	14.49	15.30	15.36	16.18	17.30	19.43	20.24	20.30	21.12	22.24
	4H	14.87	15.64	15.76	16.53	17.65	19.92	20.69	20.81	21.57	22.70
	6H	15.16	15.86	16.05	16.76	17.90	20.24	20.94	21.13	21.84	22.98
	8H	15.25	15.92	16.15	16.83	17.97	20.32	20.99	21.22	21.90	23.04
	12H	15.30	15.94	16.21	16.84	18.01	20.35	20.99	21.26	21.89	23.06
4H	2H	13.99	14.76	14.88	15.64	16.77	17.93	18.69	18.82	19.58	20.71
	3H	15.37	16.00	16.27	16.92	18.06	19.59	20.23	20.49	21.15	22.29
	4H	15.83	16.41	16.74	17.32	18.49	20.20	20.78	21.11	21.69	22.86
	6H	16.20	16.70	17.13	17.63	18.81	20.64	21.14	21.57	22.08	23.25
	8H	16.33	16.79	17.25	17.72	18.90	20.78	21.24	21.70	22.17	23.36
	12H	16.40	16.82	17.35	17.77	18.96	20.84	21.26	21.79	22.21	23.40
8H	4H	16.15	16.61	17.07	17.54	18.73	20.17	20.64	21.10	21.57	22.75
	6H	16.61	17.00	17.57	17.97	19.15	20.67	21.06	21.63	22.03	23.21
	8H	16.81	17.14	17.77	18.11	19.31	20.86	21.20	21.82	22.16	23.36
	12H	16.95	17.25	17.91	18.20	19.45	20.98	21.28	21.94	22.23	23.48
12H	4H	16.16	16.58	17.11	17.53	18.72	20.13	20.55	21.07	21.50	22.68
	6H	16.67	17.01	17.64	17.97	19.17	20.65	20.99	21.61	21.95	23.15
	8H	16.89	17.19	17.86	18.15	19.40	20.84	21.14	21.81	22.10	23.35