

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: P832477

Luminaire Tested: S123RDP-S775D835-4F0-1E-UDD-G

Issue Date: 05/03/2024

Tested By:

Approved By:



NVLAP Lab Code: 200050-0

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**Test Information**

Test Method: LM-79-2019  
 Report Number: P832477  
 Test Lab: INNOVATION CENTER  
 Issue Date: 05/03/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: NEO-RAY  
 Catalog Number: S123RDP-S775D835-4F0-1E-UDD-G  
 Description: DEFINE 3 DIRECT PENDANT LED LUMINAIRE  
 DOWNLIGHT 775 LUMENS PER FOOT, GRAZE OPTIC

Light Source: -  
 Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
 Luminaire Lumens: 3309.9 lumens  
 Efficiency: N/A  
 Efficacy: 127.8 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: Direct

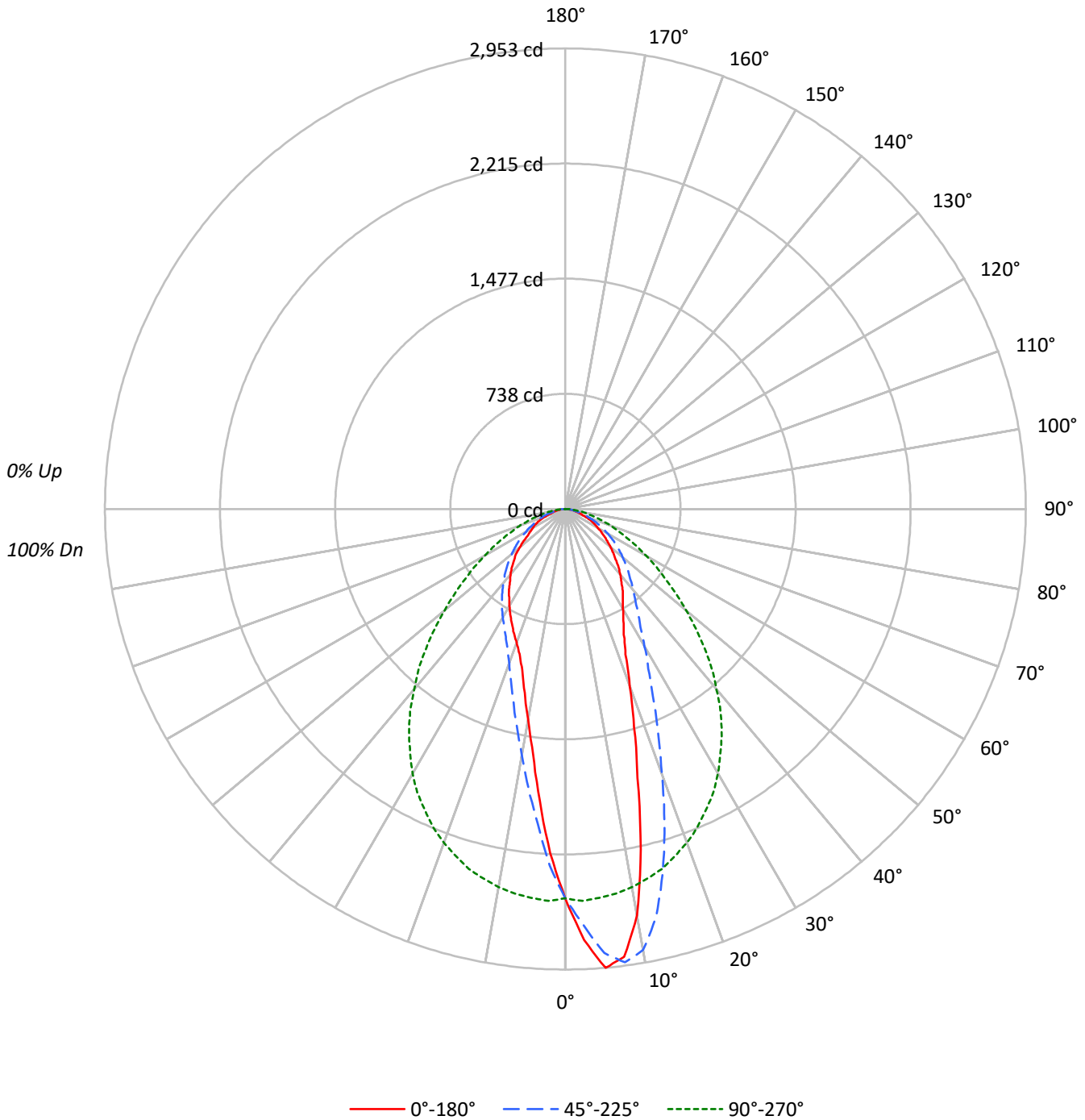
Input Watts (W): 25.9  
 Input Voltage (V): 120  
 Input Current (Ain): NR  
 Voltage Rise (V): NR  
 Power Factor: NR  
 Total Harmonic Distortion (THDi): NR  
 Frequency (hertz): 60  
 Stabilization Time: NR  
 Operation Time: NR  
 Ambient Temperature (°C): NR  
 Test Distance: 24 FT

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	P3	10/30/2015	4/30/2016
Power Meter	IN0214	1/12/2016	1/12/2017
AC Power Source	IN0062	1/12/2016	1/12/2017
DC Power Supply	--	--	--
Room Thermometer	IN0145	1/13/2016	1/13/2017

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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87				
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76				
3	94	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67				
4	88	77	69	64	85	76	69	63	73	67	62	71	66	62	69	65	61	59				
5	82	70	62	56	80	69	62	56	67	61	56	65	60	55	63	58	54	53				
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47				
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	43				
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	51	45	41	39				
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36				
10	60	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33				

**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	6.9
10°-20°	526.5	15.9
20°-30°	604.1	18.3
30°-40°	595.5	18.0
40°-50°	525.1	15.9
50°-60°	404.0	12.2
60°-70°	265.6	8.0
70°-80°	129.0	3.9
80°-90°	32.5	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1358.2	41.0
0°-40°	1953.7	59.0
0°-60°	2882.8	87.1
0°-90°	3309.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3309.9	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	25
90°	0	0	0	0	0	

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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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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**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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P832477

CATALOG NUMBER: S123RDP-S775D835-4F0-1E-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°	0.0	0.0	0.0	0.0

TEST NUMBER: P832477

CATALOG NUMBER: S123RDP-S775D835-4F0-1E-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	16.14	17.60	16.51	17.91	18.22	20.80	22.26	21.17	22.57	22.89
	3H	17.40	18.71	17.78	19.03	19.40	22.34	23.65	22.72	23.98	24.34
	4H	17.81	19.03	18.21	19.38	19.76	22.86	24.08	23.26	24.43	24.81
	6H	18.12	19.25	18.54	19.62	20.01	23.20	24.33	23.61	24.69	25.09
	8H	18.23	19.30	18.65	19.69	20.09	23.30	24.37	23.72	24.76	25.16
	12H	18.30	19.32	18.73	19.70	20.13	23.35	24.37	23.78	24.75	25.18
4H	2H	16.93	18.15	17.33	18.50	18.88	20.87	22.09	21.27	22.44	22.82
	3H	18.35	19.36	18.76	19.76	20.16	22.58	23.59	22.99	23.99	24.39
	4H	18.83	19.74	19.26	20.15	20.59	23.20	24.11	23.64	24.53	24.97
	6H	19.23	20.01	19.69	20.46	20.92	23.67	24.46	24.13	24.90	25.37
	8H	19.36	20.10	19.83	20.54	21.01	23.81	24.55	24.28	24.99	25.46
	12H	19.47	20.12	19.95	20.60	21.07	23.90	24.56	24.39	25.04	25.51
8H	4H	19.18	19.92	19.65	20.36	20.83	23.21	23.95	23.68	24.39	24.86
	6H	19.67	20.27	20.17	20.77	21.24	23.73	24.33	24.23	24.83	25.31
	8H	19.86	20.40	20.38	20.92	21.40	23.92	24.46	24.43	24.97	25.46
	12H	20.03	20.50	20.54	21.00	21.56	24.06	24.54	24.57	25.03	25.60
12H	4H	19.22	19.88	19.71	20.36	20.83	23.19	23.84	23.67	24.32	24.80
	6H	19.73	20.27	20.24	20.78	21.27	23.70	24.25	24.22	24.76	25.25
	8H	19.97	20.45	20.48	20.94	21.51	23.92	24.40	24.44	24.89	25.46