

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: P831892

Luminaire Tested: S123RDIP-S1000D805U935-4F0-1E-UDD-G1

Issue Date: 05/03/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P831892  
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-S1000D805U935-4F0-1E-UDD-G1  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT, GRAZE OPTIC  
UPLIGHT 805 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: -

**Summary**

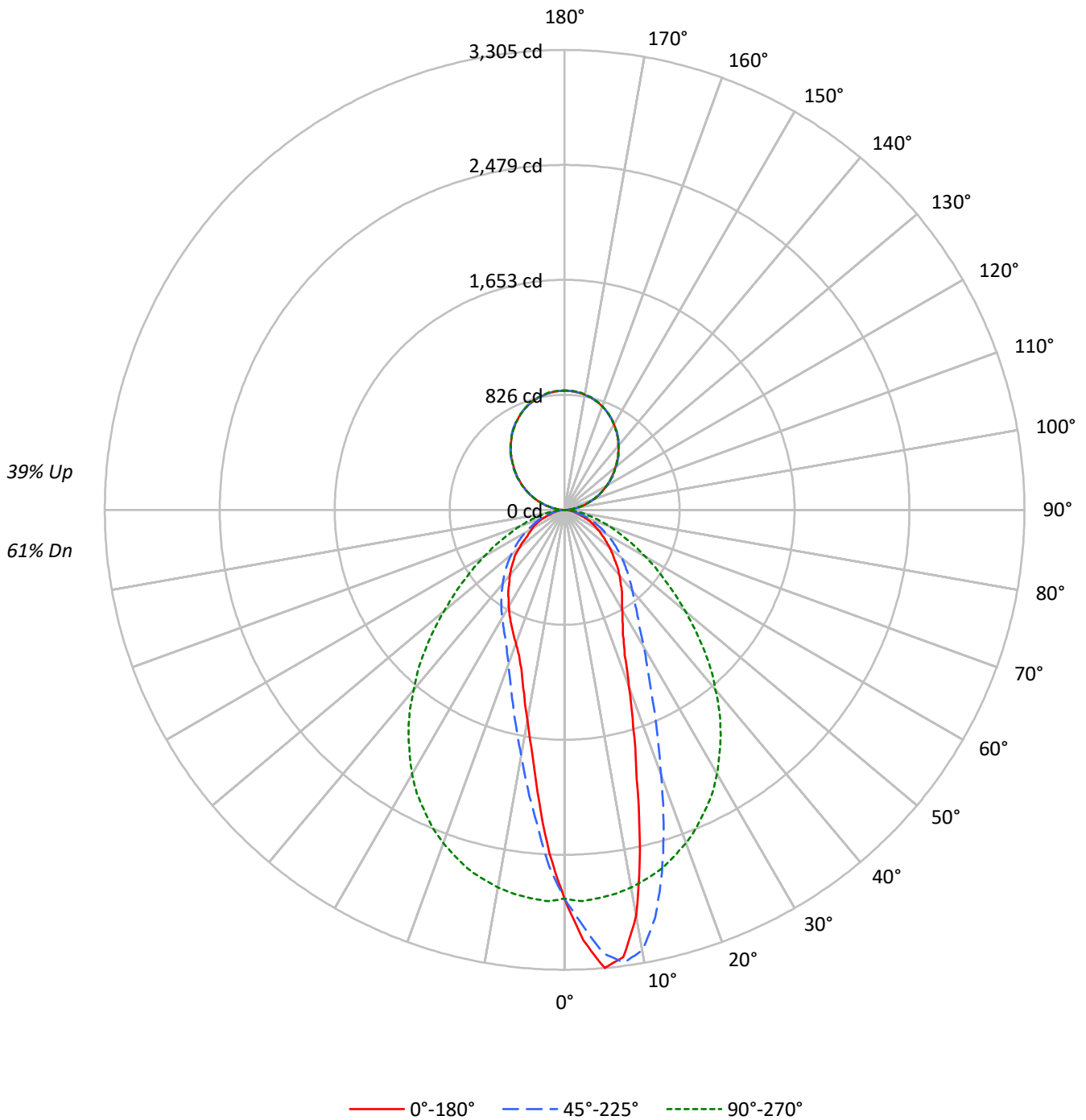
Lumens per Lamp: N/A  
Luminaire Lumens: 6080.6 lumens  
Efficiency: N/A  
Efficacy: 109.2 lumens/watt  
Spacing Criteria (0/90/45): 0.55 / 1.17 / 0.8  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 55.7  
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	89	89	89	77	77	77	66	66	66	66	66	66	61	
1	101	97	94	90	95	91	88	85	80	78	75	70	68	66	60	59	58	58	58	58	53	
2	93	86	80	76	87	81	76	72	71	67	64	62	60	57	54	52	50	50	50	50	46	
3	86	77	70	64	80	72	66	61	64	59	55	56	53	50	49	46	44	44	44	44	41	
4	79	69	61	56	74	65	58	53	58	52	48	51	47	44	45	42	39	39	39	39	36	
5	73	62	54	49	68	59	52	47	52	47	43	46	42	39	41	38	35	35	35	35	32	
6	68	56	49	43	63	53	46	41	48	42	38	42	38	35	38	34	31	31	31	31	29	
7	63	51	44	38	59	49	42	37	44	38	34	39	35	31	35	31	29	29	29	29	26	
8	59	47	40	35	55	45	38	33	40	35	31	36	32	28	32	29	26	26	26	26	24	
9	55	43	36	31	52	41	35	30	37	32	28	34	29	26	30	27	24	24	24	24	22	
10	52	40	33	29	49	38	32	28	35	30	26	31	27	24	28	25	22	22	22	22	20	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	30074	30074	30074	30074	30074
5°	35710	34571	30263	24464	22713
10°	32354	35114	30112	19601	16816
15°	22276	30107	29795	16020	13301
20°	15497	23180	29196	13509	11692
25°	11809	17667	28326	12006	10776
30°	10280	14124	27237	11149	9981
35°	9437	11914	25695	10424	9257
40°	8612	10640	23678	9714	8595
45°	7777	9730	21500	9042	7934
50°	7060	8977	18933	8383	7117
55°	6384	8244	16467	7739	6105
60°	5722	7496	14303	7029	5772
65°	5280	6653	12312	6316	5456
70°	4290	5750	10744	5715	4434
75°	3764	4575	9100	4741	3905
80°	3409	3868	7457	3973	3694
85°	3112	3396	5656	3606	3396

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 80°  
 Vertical Angle: 45°  
 Luminance: 22686 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.7	4.2
10°-20°	589.3	9.7
20°-30°	676.1	11.1
30°-40°	666.4	11.0
40°-50°	587.7	9.7
50°-60°	452.1	7.4
60°-70°	297.3	4.9
70°-80°	144.4	2.4
80°-90°	38.2	0.6
90°-100°	55.2	0.9
100°-110°	167.0	2.7
110°-120°	284.2	4.7
120°-130°	373.9	6.1
130°-140°	420.3	6.9
140°-150°	413.2	6.8
150°-160°	347.9	5.7
160°-170°	231.6	3.8
170°-180°	81.1	1.3
0°-30°	1520.1	25.0
0°-40°	2186.5	36.0
0°-60°	3226.4	53.1
0°-90°	3706.2	61.0
90°-120°	506.4	8.3
90°-150°	1713.8	28.2
90°-180°	2374.0	39.0
0°-180°	6080.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2794	2794	2794	2794	2794	
5°	3305	3200	2801	2264	2102	302
15°	1999	2702	2674	1438	1194	564
25°	994	1488	2385	1011	907	470
35°	718	907	1955	793	704	448
45°	511	639	1412	594	521	397
55°	340	439	878	412	325	305
65°	207	261	483	248	214	203
75°	90	110	219	114	94	97
85°	25	28	46	29	28	27
90°	20	16	1	16	20	11
95°	52	50	40	50	52	53
105°	160	159	152	159	160	170
115°	287	287	286	287	287	284
125°	414	419	419	419	414	370
135°	543	547	543	547	543	417
145°	659	662	659	662	659	412
155°	753	755	755	755	753	347
165°	819	820	822	820	819	231
175°	852	852	855	852	852	81
180°	857	857	857	857	857	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0
2.5°	3096.4	3086.6	3076.9	3074.0	3071.2	3062.0	3052.8	3032.2	3011.6	2990.4	2969.2
5°	3304.9	3306.0	3307.2	3304.3	3301.4	3289.4	3277.4	3252.2	3227.0	3199.5	3172.0
7.5°	3240.7	3259.0	3277.4	3280.8	3284.2	3293.4	3302.6	3296.8	3291.1	3280.8	3270.5
10°	2960.1	2958.9	2957.8	2978.4	2999.0	3060.3	3121.6	3153.1	3184.6	3212.6	3240.7
12.5°	2501.8	2503.6	2505.3	2572.9	2640.5	2698.3	2756.2	2836.3	2916.5	3003.0	3089.5
15°	1999.0	2027.0	2055.1	2115.2	2175.4	2262.4	2349.5	2457.2	2564.8	2701.7	2838.6
17.5°	1641.5	1653.6	1665.6	1723.5	1781.3	1863.8	1946.3	2068.3	2190.3	2366.7	2543.1
20°	1352.9	1363.8	1374.6	1416.5	1458.3	1537.3	1616.3	1732.6	1848.9	2023.6	2198.3
22.5°	1129.5	1150.7	1171.9	1199.9	1228.0	1285.3	1342.6	1461.1	1579.7	1738.9	1898.1
25°	994.3	1004.1	1013.8	1037.9	1061.9	1116.9	1171.9	1250.3	1328.8	1487.5	1646.1
27.5°	902.7	905.5	908.4	926.2	943.9	979.4	1014.9	1087.7	1160.4	1291.0	1421.6
30°	827.1	832.2	837.4	851.1	864.9	890.7	916.4	968.0	1019.5	1136.4	1253.2
32.5°	768.7	771.5	774.4	785.8	797.3	816.2	835.1	875.8	916.4	1005.8	1095.1
35°	718.2	718.8	719.4	728.0	736.6	754.9	773.2	807.0	840.8	906.7	972.6
37.5°	661.0	665.0	669.0	675.3	681.6	697.6	713.7	741.2	768.7	823.1	877.5
40°	612.9	616.3	619.7	627.2	634.6	647.2	659.8	685.0	710.2	757.2	804.2
42.5°	564.7	567.0	569.3	576.8	584.2	599.7	615.2	635.2	655.2	694.2	733.1
45°	510.9	516.6	522.4	530.4	538.4	551.6	564.7	585.4	606.0	639.2	672.4
47.5°	466.2	469.1	472.0	478.8	485.7	501.7	517.8	536.1	554.4	585.4	616.3
50°	421.6	422.7	423.8	430.1	436.4	450.8	465.1	486.3	507.5	536.1	564.7
52.5°	379.2	382.0	384.9	391.2	397.5	407.2	417.0	438.7	460.5	488.6	516.6
55°	340.2	341.9	343.7	348.2	352.8	364.3	375.7	394.6	413.5	439.3	465.1
57.5°	303.6	305.9	308.1	311.6	315.0	325.3	335.6	352.3	368.9	394.6	420.4
60°	265.8	268.6	271.5	275.5	279.5	287.5	295.5	310.4	325.3	348.2	371.2
62.5°	238.3	238.8	239.4	242.9	246.3	252.0	257.7	269.8	281.8	304.7	327.6
65°	207.3	209.1	210.8	212.5	214.2	218.8	223.4	233.7	244.0	261.2	278.4
67.5°	175.3	177.0	178.7	181.6	184.4	188.4	192.4	199.3	206.2	222.2	238.3
70°	136.3	136.3	136.3	140.9	145.5	152.4	159.2	164.4	169.5	182.7	195.9
72.5°	111.1	111.7	112.3	112.8	113.4	117.4	121.4	130.0	138.6	146.6	154.6
75°	90.5	91.1	91.6	92.2	92.8	93.9	95.1	97.9	100.8	110.0	119.1
77.5°	72.2	72.7	73.3	73.9	74.5	75.6	76.8	77.9	79.0	82.5	85.9
80°	55.0	55.6	56.1	56.7	57.3	57.8	58.4	59.6	60.7	62.4	64.1
82.5°	40.1	40.1	40.1	40.1	40.1	41.2	42.4	42.4	42.4	43.5	44.7
85°	25.2	25.2	25.2	25.8	26.3	26.3	26.3	26.9	27.5	27.5	27.5
87.5°	11.5	10.9	10.3	10.9	11.5	11.5	11.5	12.0	12.6	12.6	12.6
90°	20.2	19.9	19.6	19.3	19.0	18.5	18.0	17.4	16.8	16.2	14.2
92.5°	28.9	29.2	29.5	29.8	30.1	30.1	29.6	29.2	28.7	28.3	27.4
95°	52.5	52.5	52.5	52.5	52.5	52.2	51.6	51.0	50.4	49.8	48.6
97.5°	75.4	75.5	75.7	75.8	76.0	75.7	74.9	74.2	73.4	72.7	71.8
100°	102.3	102.0	101.7	101.4	101.1	100.8	100.3	99.9	99.4	99.0	98.2
102.5°	129.9	130.1	130.2	130.4	130.5	130.4	129.9	129.5	129.0	128.6	127.5
105°	160.2	159.9	159.6	159.3	159.0	158.9	158.9	158.9	158.9	158.9	157.5
107.5°	191.2	191.3	191.5	191.6	191.8	191.6	191.2	190.7	190.3	189.8	189.2
110°	222.8	223.1	223.4	223.7	224.0	223.9	223.3	222.7	222.1	221.5	221.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	256.5	256.5	256.5	256.5	256.5	256.1	255.4	254.6	253.9	253.1	253.1
115°	286.8	286.9	287.1	287.2	287.4	287.4	287.2	287.1	286.9	286.8	287.1
117.5°	317.7	318.2	318.6	319.1	319.5	319.8	319.8	319.8	319.8	319.8	320.1
120°	350.7	351.0	351.3	351.6	351.9	352.1	352.3	352.4	352.6	352.7	353.5
122.5°	382.4	382.8	383.3	383.7	384.2	384.6	385.1	385.5	385.9	386.4	386.7
125°	414.0	414.6	415.2	415.8	416.4	417.0	417.6	418.2	418.8	419.4	419.7
127.5°	445.6	446.2	446.8	447.4	448.0	448.8	449.7	450.6	451.5	452.4	452.7
130°	476.6	477.6	478.7	479.7	480.8	481.6	482.2	482.8	483.4	484.0	484.5
132.5°	508.9	509.7	510.4	511.2	511.9	512.7	513.4	514.1	514.9	515.6	515.9
135°	542.6	542.9	543.2	543.5	543.8	544.2	544.8	545.4	546.0	546.6	546.8
137.5°	572.2	572.6	573.1	573.5	574.0	574.6	575.3	576.1	576.8	577.6	577.1
140°	601.1	602.2	603.2	604.3	605.3	605.9	606.1	606.2	606.4	606.5	606.4
142.5°	630.8	631.5	632.3	633.0	633.7	634.2	634.3	634.5	634.6	634.8	634.5
145°	659.0	659.6	660.2	660.8	661.4	661.8	661.9	662.1	662.2	662.4	661.9
147.5°	684.6	685.5	686.4	687.3	688.2	688.6	688.6	688.6	688.6	688.6	688.2
150°	708.8	709.7	710.6	711.5	712.4	712.9	712.9	712.9	712.9	712.9	712.6
152.5°	732.4	733.2	733.9	734.6	735.4	735.6	735.3	735.0	734.7	734.4	734.3
155°	753.3	754.3	755.4	756.4	757.5	757.7	757.1	756.5	755.9	755.3	755.1
157.5°	772.8	773.7	774.6	775.5	776.4	776.5	775.9	775.3	774.7	774.1	774.0
160°	791.6	792.2	792.8	793.4	794.0	794.0	793.2	792.5	791.7	791.0	791.0
162.5°	805.8	806.8	807.9	808.9	810.0	810.1	809.4	808.6	807.9	807.1	807.0
165°	819.2	820.3	821.3	822.4	823.4	823.5	822.6	821.7	820.8	819.9	819.9
167.5°	831.4	832.3	833.2	834.1	834.9	834.9	834.1	833.2	832.3	831.4	831.2
170°	840.1	841.2	842.2	843.3	844.3	844.3	843.3	842.2	841.2	840.1	840.1
172.5°	846.8	847.9	848.9	850.0	851.0	851.1	850.2	849.3	848.4	847.5	847.5
175°	851.6	852.6	853.6	854.7	855.7	855.8	854.9	854.0	853.1	852.2	852.2
177.5°	854.2	855.3	856.3	857.4	858.4	858.5	857.6	856.7	855.8	854.9	854.9
180°	856.9	856.9	856.9	856.9	856.9	856.9	856.9	856.9	856.9	856.9	856.9



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0
2.5°	2966.4	2963.5	2936.0	2908.5	2881.6	2854.7	2834.6	2814.6	2780.8	2747.0	2725.8
5°	3150.2	3128.5	3084.9	3041.4	2976.1	2910.8	2855.8	2800.8	2731.0	2661.1	2602.7
7.5°	3252.7	3235.0	3182.3	3129.6	3043.1	2956.6	2870.7	2784.8	2681.7	2578.6	2490.4
10°	3255.6	3270.5	3227.0	3183.4	3086.1	2988.7	2871.9	2755.0	2616.4	2477.8	2363.8
12.5°	3153.7	3217.8	3208.6	3199.5	3100.4	3001.3	2859.3	2717.2	2547.1	2377.0	2234.4
15°	2962.9	3087.2	3123.9	3160.5	3078.6	2996.7	2835.2	2673.7	2473.8	2273.9	2110.1
17.5°	2717.2	2891.3	2988.1	3084.9	3025.4	2965.8	2788.8	2611.8	2386.7	2161.6	1983.5
20°	2426.2	2654.2	2806.0	2957.8	2936.0	2914.2	2731.5	2548.8	2306.0	2063.1	1870.1
22.5°	2138.7	2379.3	2588.9	2798.5	2820.9	2843.2	2658.8	2474.4	2208.6	1942.8	1746.4
25°	1890.7	2135.3	2385.0	2634.7	2685.1	2735.5	2560.3	2385.0	2109.5	1834.0	1638.7
27.5°	1654.2	1886.7	2161.6	2436.5	2528.2	2619.8	2459.5	2299.1	2012.1	1725.2	1530.4
30°	1461.1	1669.0	1949.7	2230.4	2358.1	2485.8	2338.6	2191.4	1906.7	1622.1	1431.3
32.5°	1281.3	1467.4	1749.2	2031.0	2179.4	2327.7	2200.6	2073.4	1799.6	1525.9	1337.4
35°	1139.2	1305.9	1568.8	1831.7	1997.8	2163.9	2059.7	1955.4	1687.9	1420.5	1242.3
37.5°	1017.2	1157.0	1403.9	1650.7	1827.1	2003.5	1916.5	1829.4	1578.0	1326.5	1158.1
40°	916.4	1028.7	1258.4	1488.0	1661.0	1834.0	1759.5	1685.1	1460.0	1234.9	1077.4
42.5°	829.9	926.7	1132.9	1339.1	1497.8	1656.4	1607.2	1557.9	1354.0	1150.1	1004.1
45°	753.8	835.1	1016.7	1198.2	1344.3	1490.3	1451.4	1412.4	1236.6	1060.8	926.7
47.5°	686.2	756.1	918.1	1080.2	1211.4	1342.6	1306.5	1270.4	1124.9	979.4	857.4
50°	624.3	683.9	819.1	954.2	1072.2	1190.2	1160.4	1130.6	1010.4	890.1	784.7
52.5°	565.9	615.2	736.6	858.0	953.1	1048.2	1025.3	1002.3	909.6	816.8	721.1
55°	510.3	555.6	658.1	760.6	842.0	923.3	900.4	877.5	805.3	733.1	648.9
57.5°	459.9	499.5	582.5	665.6	730.3	795.0	784.1	773.2	713.1	653.0	583.6
60°	406.7	442.2	513.8	585.4	637.5	689.6	677.0	664.4	621.5	578.5	518.9
62.5°	359.1	390.6	447.9	505.2	547.6	589.9	580.8	571.6	539.0	506.3	457.1
65°	309.3	340.2	386.6	433.0	466.2	499.5	491.4	483.4	458.8	434.2	394.6
67.5°	264.0	289.8	329.9	370.0	392.3	414.7	410.1	405.5	386.6	367.7	336.8
70°	218.2	240.6	273.8	307.0	322.5	337.9	339.7	341.4	324.2	307.0	284.1
72.5°	172.4	190.2	221.1	252.0	264.0	276.1	275.5	274.9	264.6	254.3	233.7
75°	132.3	145.5	169.5	193.6	203.9	214.2	216.5	218.8	209.1	199.3	187.9
77.5°	95.1	104.2	122.6	140.9	152.4	163.8	165.0	166.1	161.5	156.9	146.1
80°	67.0	69.9	81.3	92.8	104.8	116.8	118.6	120.3	115.7	111.1	104.2
82.5°	46.4	48.1	52.1	56.1	65.9	75.6	77.9	80.2	77.9	75.6	68.2
85°	28.1	28.6	30.4	32.1	36.7	41.2	43.5	45.8	44.7	43.5	39.5
87.5°	12.6	12.6	13.2	13.7	14.9	16.0	18.9	21.8	20.0	18.3	16.6
90°	12.3	10.3	8.4	6.7	5.2	3.7	2.2	0.7	2.2	3.7	5.2
92.5°	26.5	25.6	24.7	23.8	22.9	22.0	21.1	20.2	21.1	22.0	22.9
95°	47.4	46.2	45.0	43.9	42.9	41.8	40.8	39.7	40.8	41.8	42.9
97.5°	70.9	70.0	69.1	68.3	67.5	66.8	66.0	65.3	66.0	66.8	67.5
100°	97.5	96.7	96.0	95.1	94.2	93.3	92.4	91.6	92.4	93.3	94.2
102.5°	126.5	125.4	124.4	123.6	123.2	122.7	122.3	121.8	122.3	122.7	123.2
105°	156.2	154.8	153.5	152.7	152.4	152.1	151.8	151.5	151.8	152.1	152.4
107.5°	188.6	188.0	187.4	187.1	186.9	186.8	186.6	186.5	186.6	186.8	186.9
110°	220.9	220.6	220.3	220.0	219.7	219.4	219.1	218.8	219.1	219.4	219.7





TEST NUMBER: P831892

CATALOG NUMBER: S123RDIP-S1000D805U935-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	253.1	253.1	253.1	253.0	252.9	252.7	252.6	252.4	252.6	252.7	252.9
115°	287.4	287.7	288.0	287.9	287.4	287.0	286.5	286.1	286.5	287.0	287.4
117.5°	320.4	320.7	321.0	321.0	320.9	320.7	320.6	320.4	320.6	320.7	320.9
120°	354.2	355.0	355.7	355.7	354.8	353.9	353.0	352.1	353.0	353.9	354.8
122.5°	387.0	387.3	387.6	387.4	386.8	386.2	385.6	385.1	385.6	386.2	386.8
125°	420.0	420.3	420.6	420.5	420.1	419.6	419.2	418.7	419.2	419.6	420.1
127.5°	453.0	453.3	453.6	453.3	452.4	451.5	450.6	449.7	450.6	451.5	452.4
130°	484.9	485.4	485.8	485.4	484.2	483.0	481.8	480.6	481.8	483.0	484.2
132.5°	516.2	516.5	516.8	516.4	515.2	514.0	512.8	511.6	512.8	514.0	515.2
135°	546.9	547.1	547.2	546.8	545.9	545.0	544.1	543.2	544.1	545.0	545.9
137.5°	576.7	576.2	575.8	575.2	574.4	573.7	572.9	572.2	572.9	573.7	574.4
140°	606.2	606.1	605.9	605.5	604.7	604.0	603.2	602.5	603.2	604.0	604.7
142.5°	634.2	633.9	633.6	633.1	632.3	631.6	630.8	630.1	630.8	631.6	632.3
145°	661.5	661.0	660.6	660.2	659.9	659.6	659.3	659.0	659.3	659.6	659.9
147.5°	687.8	687.3	686.9	686.3	685.7	685.1	684.5	683.9	684.5	685.1	685.7
150°	712.3	712.0	711.7	711.4	711.1	710.8	710.5	710.2	710.5	710.8	711.1
152.5°	734.1	734.0	733.8	733.5	733.1	732.6	732.2	731.7	732.2	732.6	733.1
155°	755.0	754.8	754.7	754.6	754.6	754.6	754.6	754.6	754.6	754.6	754.6
157.5°	773.8	773.7	773.5	773.5	773.7	773.8	774.0	774.1	774.0	773.8	773.7
160°	791.0	791.0	791.0	791.1	791.4	791.7	792.0	792.3	792.0	791.7	791.4
162.5°	806.8	806.7	806.5	806.7	807.1	807.6	808.0	808.5	808.0	807.6	807.1
165°	819.9	819.9	819.9	820.1	820.6	821.0	821.5	821.9	821.5	821.0	820.6
167.5°	831.1	830.9	830.8	831.0	831.6	832.2	832.8	833.4	832.8	832.2	831.6
170°	840.1	840.1	840.1	840.4	841.0	841.6	842.2	842.8	842.2	841.6	841.0
172.5°	847.5	847.5	847.5	847.8	848.4	849.0	849.6	850.2	849.6	849.0	848.4
175°	852.2	852.2	852.2	852.5	853.1	853.7	854.3	854.9	854.3	853.7	853.1
177.5°	854.9	854.9	854.9	855.2	855.8	856.4	857.0	857.6	857.0	856.4	855.8
180°	856.9	856.9	856.9	856.9	856.9	856.9	856.9	856.9	856.9	856.9	856.9



TEST NUMBER: P831892

CATALOG NUMBER: S123RDIP-S1000D805U935-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0
2.5°	2704.6	2672.0	2639.3	2615.8	2592.3	2563.1	2533.9	2532.8	2531.6	2509.9	2488.1
5°	2544.2	2487.5	2430.8	2375.3	2319.7	2264.1	2208.6	2196.0	2183.4	2164.5	2145.6
7.5°	2402.2	2311.7	2221.2	2150.2	2079.1	2023.6	1968.0	1930.2	1892.4	1863.2	1834.0
10°	2249.8	2137.6	2025.3	1939.4	1853.5	1793.3	1733.2	1689.7	1646.1	1625.5	1604.9
12.5°	2091.7	1969.7	1847.7	1763.5	1679.4	1607.2	1535.0	1495.5	1456.0	1427.3	1398.7
15°	1946.3	1815.1	1683.9	1594.6	1505.2	1437.6	1370.1	1330.5	1291.0	1262.4	1233.7
17.5°	1805.4	1673.1	1540.7	1450.2	1359.7	1298.5	1237.2	1198.8	1160.4	1142.7	1124.9
20°	1677.1	1543.6	1410.2	1324.8	1239.5	1179.3	1119.2	1098.6	1077.9	1061.3	1044.7
22.5°	1549.9	1421.6	1293.3	1211.4	1129.5	1086.0	1042.4	1025.8	1009.2	996.6	984.0
25°	1443.4	1315.6	1187.9	1116.3	1044.7	1010.9	977.1	966.3	955.4	942.8	930.2
27.5°	1335.7	1214.3	1092.8	1035.6	978.3	950.8	923.3	909.6	895.8	885.5	875.2
30°	1240.6	1128.4	1016.1	968.5	921.0	897.0	872.9	858.0	843.1	833.4	823.6
32.5°	1149.0	1049.3	949.6	909.0	868.3	844.8	821.3	807.0	792.7	781.3	769.8
35°	1064.2	977.7	891.2	854.0	816.8	793.3	769.8	755.5	741.2	729.7	718.2
37.5°	989.7	911.3	832.8	797.9	762.9	742.3	721.7	706.8	691.9	679.9	667.8
40°	919.9	850.6	781.3	747.5	713.7	691.3	669.0	655.8	642.6	631.8	620.9
42.5°	858.0	794.4	730.9	697.6	664.4	643.2	622.0	606.6	591.1	584.8	578.5
45°	792.7	736.6	680.4	648.4	616.3	594.0	571.6	558.4	545.3	539.5	533.8
47.5°	735.4	683.3	631.2	599.7	568.2	548.1	528.1	517.8	507.5	499.5	491.4
50°	679.3	628.9	578.5	548.1	517.8	500.6	483.4	470.8	458.2	452.5	446.8
52.5°	625.5	579.6	533.8	502.9	472.0	455.3	438.7	427.9	417.0	404.9	392.9
55°	564.7	524.7	484.6	457.1	429.6	412.4	395.2	382.6	370.0	357.4	344.8
57.5°	514.3	474.8	435.3	410.7	386.0	369.4	352.8	339.1	325.3	315.0	304.7
60°	459.4	425.0	390.6	366.6	342.5	326.5	310.4	297.3	284.1	278.9	273.8
62.5°	407.8	375.7	343.7	322.5	301.3	285.8	270.3	261.8	253.2	249.7	246.3
65°	355.1	327.6	300.1	280.7	261.2	248.0	234.8	230.8	226.8	224.0	221.1
67.5°	305.9	282.4	258.9	241.7	224.5	215.4	206.2	201.6	197.0	193.6	190.2
70°	261.2	240.6	219.9	205.1	190.2	181.6	173.0	169.0	165.0	158.7	152.4
72.5°	213.1	197.0	181.0	169.5	158.1	150.6	143.2	135.2	127.2	121.4	115.7
75°	176.4	160.4	144.3	133.5	122.6	114.0	105.4	102.5	99.7	97.9	96.2
77.5°	135.2	121.4	107.7	99.1	90.5	86.5	82.5	80.8	79.0	78.5	77.9
80°	97.4	85.9	74.5	69.9	65.3	64.1	63.0	61.9	60.7	60.1	59.6
82.5°	60.7	55.0	49.3	48.1	47.0	46.4	45.8	45.2	44.7	44.1	43.5
85°	35.5	33.2	30.9	30.4	29.8	29.2	28.6	28.6	28.6	28.6	28.6
87.5°	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.3	13.7
90°	6.7	8.4	10.3	12.3	14.2	16.2	16.8	17.4	18.0	18.5	19.0
92.5°	23.8	24.7	25.6	26.5	27.4	28.3	28.7	29.2	29.6	30.1	30.1
95°	43.9	45.0	46.2	47.4	48.6	49.8	50.4	51.0	51.6	52.2	52.5
97.5°	68.3	69.1	70.0	70.9	71.8	72.7	73.4	74.2	74.9	75.7	76.0
100°	95.1	96.0	96.7	97.5	98.2	99.0	99.4	99.9	100.3	100.8	101.1
102.5°	123.6	124.4	125.4	126.5	127.5	128.6	129.0	129.5	129.9	130.4	130.5
105°	152.7	153.5	154.8	156.2	157.5	158.9	158.9	158.9	158.9	158.9	159.0
107.5°	187.1	187.4	188.0	188.6	189.2	189.8	190.3	190.7	191.2	191.6	191.8
110°	220.0	220.3	220.6	220.9	221.2	221.5	222.1	222.7	223.3	223.9	224.0



TEST NUMBER: P831892

CATALOG NUMBER: S123RDIP-S1000D805U935-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	253.0	253.1	253.1	253.1	253.1	253.1	253.9	254.6	255.4	256.1	256.5
115°	287.9	288.0	287.7	287.4	287.1	286.8	286.9	287.1	287.2	287.4	287.4
117.5°	321.0	321.0	320.7	320.4	320.1	319.8	319.8	319.8	319.8	319.8	319.5
120°	355.7	355.7	355.0	354.2	353.5	352.7	352.6	352.4	352.3	352.1	351.9
122.5°	387.4	387.6	387.3	387.0	386.7	386.4	385.9	385.5	385.1	384.6	384.2
125°	420.5	420.6	420.3	420.0	419.7	419.4	418.8	418.2	417.6	417.0	416.4
127.5°	453.3	453.6	453.3	453.0	452.7	452.4	451.5	450.6	449.7	448.8	448.0
130°	485.4	485.8	485.4	484.9	484.5	484.0	483.4	482.8	482.2	481.6	480.8
132.5°	516.4	516.8	516.5	516.2	515.9	515.6	514.9	514.1	513.4	512.7	511.9
135°	546.8	547.2	547.1	546.9	546.8	546.6	546.0	545.4	544.8	544.2	543.8
137.5°	575.2	575.8	576.2	576.7	577.1	577.6	576.8	576.1	575.3	574.6	574.0
140°	605.5	605.9	606.1	606.2	606.4	606.5	606.4	606.2	606.1	605.9	605.3
142.5°	633.1	633.6	633.9	634.2	634.5	634.8	634.6	634.5	634.3	634.2	633.7
145°	660.2	660.6	661.0	661.5	661.9	662.4	662.2	662.1	661.9	661.8	661.4
147.5°	686.3	686.9	687.3	687.8	688.2	688.6	688.6	688.6	688.6	688.6	688.2
150°	711.4	711.7	712.0	712.3	712.6	712.9	712.9	712.9	712.9	712.9	712.4
152.5°	733.5	733.8	734.0	734.1	734.3	734.4	734.7	735.0	735.3	735.6	735.4
155°	754.6	754.7	754.8	755.0	755.1	755.3	755.9	756.5	757.1	757.7	757.5
157.5°	773.5	773.5	773.7	773.8	774.0	774.1	774.7	775.3	775.9	776.5	776.4
160°	791.1	791.0	791.0	791.0	791.0	791.0	791.7	792.5	793.2	794.0	794.0
162.5°	806.7	806.5	806.7	806.8	807.0	807.1	807.9	808.6	809.4	810.1	810.0
165°	820.1	819.9	819.9	819.9	819.9	819.9	820.8	821.7	822.6	823.5	823.4
167.5°	831.0	830.8	830.9	831.1	831.2	831.4	832.3	833.2	834.1	834.9	834.9
170°	840.4	840.1	840.1	840.1	840.1	840.1	841.2	842.2	843.3	844.3	844.3
172.5°	847.8	847.5	847.5	847.5	847.5	847.5	848.4	849.3	850.2	851.1	851.0
175°	852.5	852.2	852.2	852.2	852.2	852.2	853.1	854.0	854.9	855.8	855.7
177.5°	855.2	854.9	854.9	854.9	854.9	854.9	855.8	856.7	857.6	858.5	858.4
180°	856.9	856.9	856.9	856.9	856.9	856.9	856.9	856.9	856.9	856.9	856.9



TEST NUMBER: P831892

CATALOG NUMBER: S123RDIP-S1000D805U935-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	2794.0	2794.0	2794.0	2794.0
2.5°	2482.4	2476.6	2474.4	2472.1
5°	2127.8	2110.1	2106.1	2102.1
7.5°	1826.6	1819.1	1794.5	1769.8
10°	1582.0	1559.1	1548.8	1538.5
12.5°	1377.5	1356.3	1352.9	1349.4
15°	1218.8	1204.0	1198.8	1193.6
17.5°	1114.6	1104.3	1098.0	1091.7
20°	1037.3	1029.8	1025.3	1020.7
22.5°	978.3	972.6	969.1	965.7
25°	921.6	913.0	910.1	907.3
27.5°	867.7	860.3	857.4	854.6
30°	817.3	811.0	807.0	803.0
32.5°	762.4	754.9	752.6	750.3
35°	713.7	709.1	706.8	704.5
37.5°	662.1	656.4	653.0	649.5
40°	618.0	615.2	613.4	611.7
42.5°	573.3	568.2	567.6	567.0
45°	528.7	523.5	522.4	521.2
47.5°	486.9	482.3	481.7	481.1
50°	440.5	434.2	429.6	425.0
52.5°	387.2	381.5	377.5	373.4
55°	338.5	332.2	328.8	325.3
57.5°	301.8	299.0	297.3	295.5
60°	272.1	270.3	269.2	268.1
62.5°	244.6	242.9	242.9	242.9
65°	219.4	217.7	215.9	214.2
67.5°	186.7	183.3	182.7	182.1
70°	147.2	142.0	141.5	140.9
72.5°	115.1	114.6	113.4	112.3
75°	95.1	93.9	93.9	93.9
77.5°	76.8	75.6	75.6	75.6
80°	59.0	58.4	59.0	59.6
82.5°	43.5	43.5	43.0	42.4
85°	28.1	27.5	27.5	27.5
87.5°	13.7	13.7	13.7	13.7
90°	19.3	19.6	19.9	20.2
92.5°	29.8	29.5	29.2	28.9
95°	52.5	52.5	52.5	52.5
97.5°	75.8	75.7	75.5	75.4
100°	101.4	101.7	102.0	102.3
102.5°	130.4	130.2	130.1	129.9
105°	159.3	159.6	159.9	160.2
107.5°	191.6	191.5	191.3	191.2
110°	223.7	223.4	223.1	222.8



TEST NUMBER: P831892

CATALOG NUMBER: S123RDIP-S1000D805U935-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
112.5°	256.5	256.5	256.5	256.5
115°	287.2	287.1	286.9	286.8
117.5°	319.1	318.6	318.2	317.7
120°	351.6	351.3	351.0	350.7
122.5°	383.7	383.3	382.8	382.4
125°	415.8	415.2	414.6	414.0
127.5°	447.4	446.8	446.2	445.6
130°	479.7	478.7	477.6	476.6
132.5°	511.2	510.4	509.7	508.9
135°	543.5	543.2	542.9	542.6
137.5°	573.5	573.1	572.6	572.2
140°	604.3	603.2	602.2	601.1
142.5°	633.0	632.3	631.5	630.8
145°	660.8	660.2	659.6	659.0
147.5°	687.3	686.4	685.5	684.6
150°	711.5	710.6	709.7	708.8
152.5°	734.6	733.9	733.2	732.4
155°	756.4	755.4	754.3	753.3
157.5°	775.5	774.6	773.7	772.8
160°	793.4	792.8	792.2	791.6
162.5°	808.9	807.9	806.8	805.8
165°	822.4	821.3	820.3	819.2
167.5°	834.1	833.2	832.3	831.4
170°	843.3	842.2	841.2	840.1
172.5°	850.0	848.9	847.9	846.8
175°	854.7	853.6	852.6	851.6
177.5°	857.4	856.3	855.3	854.2
180°	856.9	856.9	856.9	856.9



TEST NUMBER: P831892

CATALOG NUMBER: S123RDIP-S1000D805U935-4F0-1E-UDD-G1

**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	13.54	14.44	14.41	15.32	16.44	18.21	19.11	19.08	19.99	21.10
	3H	14.77	15.57	15.65	16.47	17.60	19.71	20.52	20.60	21.41	22.55
	4H	15.16	15.91	16.05	16.81	17.96	20.21	20.96	21.10	21.86	23.01
	6H	15.44	16.14	16.35	17.04	18.20	20.52	21.22	21.43	22.12	23.28
	8H	15.53	16.19	16.45	17.11	18.27	20.60	21.26	21.52	22.19	23.34
	12H	15.58	16.21	16.51	17.13	18.31	20.64	21.27	21.56	22.18	23.36
4H	2H	14.28	15.03	15.18	15.93	17.08	18.21	18.97	19.12	19.87	21.01
	3H	15.65	16.28	16.56	17.21	18.37	19.88	20.50	20.79	21.43	22.60
	4H	16.11	16.68	17.03	17.61	18.79	20.49	21.06	21.41	21.98	23.17
	6H	16.48	16.97	17.42	17.92	19.11	20.93	21.42	21.86	22.37	23.56
	8H	16.61	17.07	17.55	18.01	19.21	21.06	21.52	22.00	22.46	23.66
	12H	16.69	17.10	17.64	18.06	19.26	21.12	21.54	22.08	22.50	23.70
8H	4H	16.43	16.89	17.37	17.83	19.03	20.46	20.92	21.40	21.86	23.06
	6H	16.89	17.27	17.86	18.26	19.46	20.96	21.33	21.92	22.32	23.52
	8H	17.09	17.42	18.06	18.40	19.61	21.14	21.48	22.12	22.45	23.67
	12H	17.23	17.52	18.21	18.49	19.76	21.26	21.55	22.24	22.52	23.79
12H	4H	16.44	16.85	17.40	17.81	19.02	20.41	20.82	21.37	21.78	22.99
	6H	16.95	17.29	17.93	18.26	19.48	20.93	21.26	21.90	22.24	23.46
	8H	17.17	17.47	18.15	18.43	19.70	21.13	21.42	22.10	22.39	23.65