

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: P831886

Luminaire Tested: S123RDIP-S1000D805U927-4F0-1E-UDD-G1

Issue Date: 05/03/2024

**Test Information**

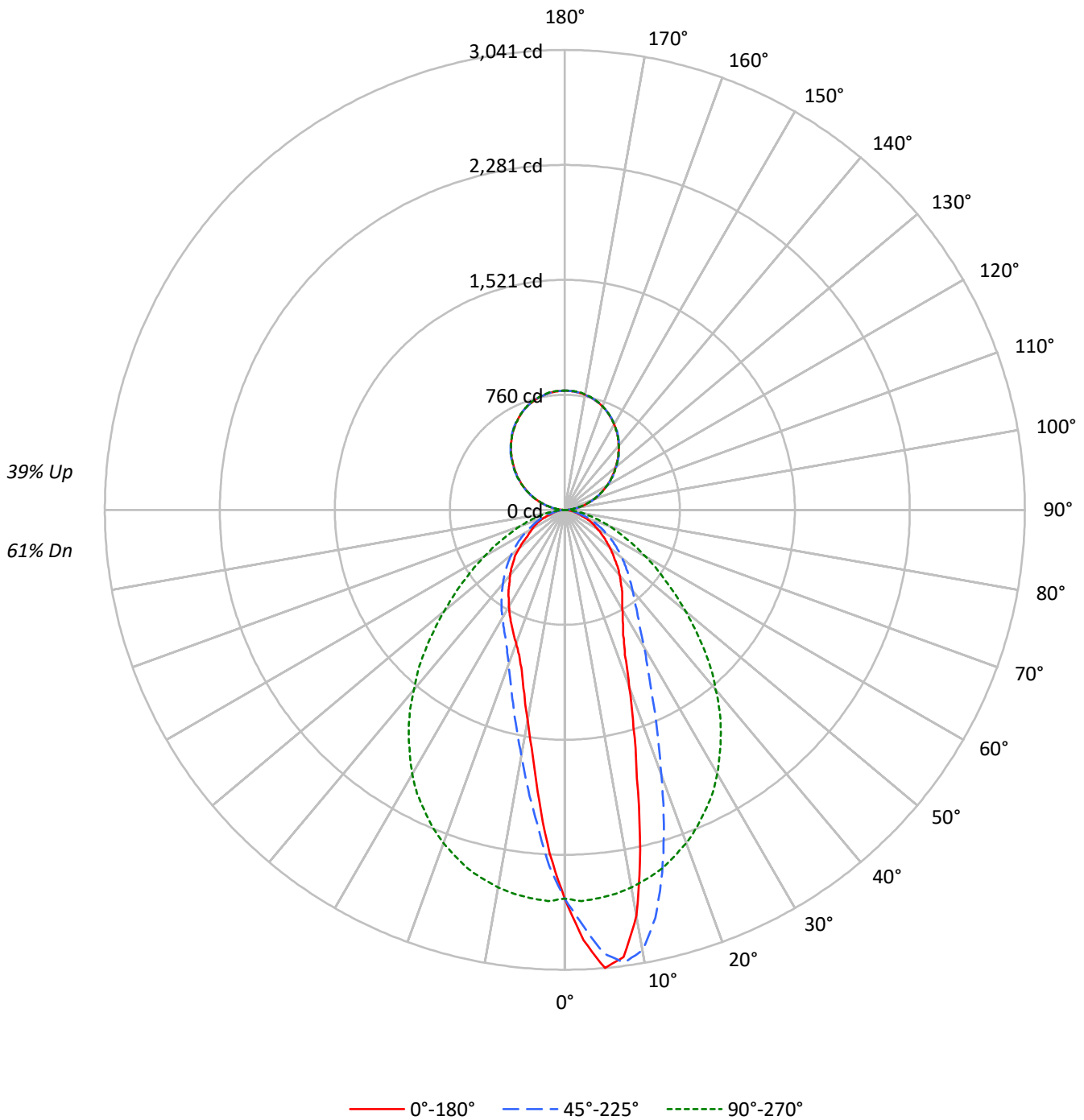
Test Method: LM-79-2019  
Report Number: P831886  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2301-905-2, G3-1807-864-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 05/03/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123RDIP-S1000D805U927-4F0-1E-UDD-G1  
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: 5594.6 lumens  
Efficiency: N/A  
Efficacy: 100.4 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





TEST NUMBER: P831886

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

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

	0°	45°	90°	135°	180°
0°	27670	27670	27670	27670	27670
5°	32855	31808	27845	22509	20897
10°	29768	32308	27705	18034	15471
15°	20495	27701	27413	14740	12238
20°	14258	21326	26862	12430	10757
25°	10866	16254	26062	11046	9913
30°	9459	12995	25061	10258	9183
35°	8683	10962	23641	9591	8518
40°	7924	9790	21785	8938	7908
45°	7156	8952	19783	8319	7301
50°	6496	8261	17421	7713	6548
55°	5874	7585	15150	7120	5617
60°	5264	6898	13160	6467	5309
65°	4860	6120	11329	5812	5020
70°	3947	5290	9885	5259	4079
75°	3464	4209	8372	4363	3593
80°	3137	3558	6862	3657	3397
85°	2865	3125	5212	3322	3125

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 80°  
 Vertical Angle: 45°  
 Luminance: 20873 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	234.3	4.2
10°-20°	542.2	9.7
20°-30°	622.1	11.1
30°-40°	613.2	11.0
40°-50°	540.7	9.7
50°-60°	416.0	7.4
60°-70°	273.5	4.9
70°-80°	132.8	2.4
80°-90°	35.2	0.6
90°-100°	50.8	0.9
100°-110°	153.6	2.7
110°-120°	261.5	4.7
120°-130°	344.0	6.1
130°-140°	386.7	6.9
140°-150°	380.2	6.8
150°-160°	320.1	5.7
160°-170°	213.1	3.8
170°-180°	74.6	1.3
0°-30°	1398.6	25.0
0°-40°	2011.7	36.0
0°-60°	2968.5	53.1
0°-90°	3410.0	61.0
90°-120°	465.9	8.3
90°-150°	1576.8	28.2
90°-180°	2185.0	39.1
0°-180°	5594.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2571	2571	2571	2571	2571	
5°	3041	2944	2577	2083	1934	278
15°	1839	2486	2460	1323	1098	519
25°	915	1369	2194	930	835	432
35°	661	834	1799	730	648	412
45°	470	588	1300	546	480	365
55°	313	404	807	379	299	281
65°	191	240	445	228	197	187
75°	83	101	201	105	86	90
85°	23	25	42	27	25	25
90°	19	15	1	15	19	10
95°	48	46	36	46	48	48
105°	147	146	139	146	147	156
115°	264	264	263	264	264	261
125°	381	386	385	386	381	341
135°	499	503	500	503	499	384
145°	606	610	606	610	606	379
155°	693	695	694	695	693	319
165°	754	754	756	754	754	213
175°	784	784	787	784	784	74
180°	788	788	788	788	788	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2570.6	2570.6	2570.6	2570.6	2570.6	2570.6	2570.6	2570.6	2570.6	2570.6	2570.6
2.5°	2848.9	2839.9	2831.0	2828.3	2825.7	2817.3	2808.8	2789.9	2770.9	2751.4	2731.9
5°	3040.7	3041.8	3042.8	3040.2	3037.6	3026.5	3015.4	2992.2	2969.0	2943.8	2918.5
7.5°	2981.7	2998.6	3015.4	3018.6	3021.7	3030.2	3038.6	3033.3	3028.1	3018.6	3009.1
10°	2723.5	2722.4	2721.4	2740.3	2759.3	2815.7	2872.1	2901.1	2930.0	2955.9	2981.7
12.5°	2301.9	2303.5	2305.0	2367.2	2429.4	2482.6	2535.9	2609.6	2683.4	2763.0	2842.6
15°	1839.2	1865.0	1890.8	1946.2	2001.5	2081.6	2161.7	2260.8	2359.8	2485.8	2611.7
17.5°	1510.3	1521.4	1532.5	1585.7	1638.9	1714.8	1790.7	1903.0	2015.2	2177.5	2339.8
20°	1244.7	1254.8	1264.8	1303.2	1341.7	1414.4	1487.2	1594.1	1701.1	1861.8	2022.6
22.5°	1039.2	1058.7	1078.2	1104.0	1129.9	1182.6	1235.3	1344.3	1453.4	1599.9	1746.4
25°	914.9	923.8	932.8	954.9	977.0	1027.6	1078.2	1150.4	1222.6	1368.6	1514.6
27.5°	830.5	833.2	835.8	852.1	868.5	901.1	933.8	1000.7	1067.7	1187.8	1308.0
30°	761.0	765.7	770.5	783.1	795.8	819.5	843.2	890.6	938.0	1045.5	1153.0
32.5°	707.2	709.9	712.5	723.0	733.6	751.0	768.3	805.8	843.2	925.4	1007.6
35°	660.8	661.4	661.9	669.8	677.7	694.6	711.4	742.5	773.6	834.2	894.8
37.5°	608.1	611.8	615.5	621.3	627.1	641.9	656.6	681.9	707.2	757.3	807.3
40°	563.9	567.0	570.2	577.1	583.9	595.5	607.1	630.3	653.5	696.7	739.9
42.5°	519.6	521.7	523.8	530.7	537.5	551.8	566.0	584.4	602.9	638.7	674.5
45°	470.1	475.3	480.6	488.0	495.4	507.5	519.6	538.6	557.6	588.1	618.7
47.5°	429.0	431.6	434.2	440.6	446.9	461.6	476.4	493.3	510.1	538.6	567.0
50°	387.9	388.9	390.0	395.8	401.6	414.7	427.9	447.4	466.9	493.3	519.6
52.5°	348.9	351.5	354.1	359.9	365.7	374.7	383.6	403.7	423.7	449.5	475.3
55°	313.0	314.6	316.2	320.4	324.6	335.2	345.7	363.1	380.5	404.2	427.9
57.5°	279.3	281.4	283.5	286.7	289.8	299.3	308.8	324.1	339.4	363.1	386.8
60°	244.5	247.2	249.8	253.5	257.2	264.5	271.9	285.6	299.3	320.4	341.5
62.5°	219.2	219.8	220.3	223.4	226.6	231.9	237.1	248.2	259.3	280.4	301.4
65°	190.8	192.4	193.9	195.5	197.1	201.3	205.5	215.0	224.5	240.3	256.1
67.5°	161.3	162.8	164.4	167.1	169.7	173.4	177.1	183.4	189.7	204.5	219.2
70°	125.4	125.4	125.4	129.6	133.9	140.2	146.5	151.2	156.0	168.1	180.2
72.5°	102.2	102.8	103.3	103.8	104.3	108.0	111.7	119.6	127.5	134.9	142.3
75°	83.3	83.8	84.3	84.8	85.4	86.4	87.5	90.1	92.7	101.2	109.6
77.5°	66.4	66.9	67.5	68.0	68.5	69.6	70.6	71.7	72.7	75.9	79.0
80°	50.6	51.1	51.6	52.2	52.7	53.2	53.8	54.8	55.9	57.4	59.0
82.5°	36.9	36.9	36.9	36.9	36.9	37.9	39.0	39.0	39.0	40.1	41.1
85°	23.2	23.2	23.2	23.7	24.2	24.2	24.2	24.8	25.3	25.3	25.3
87.5°	10.5	10.0	9.5	10.0	10.5	10.5	10.5	11.1	11.6	11.6	11.6
90°	18.6	18.3	18.0	17.8	17.5	17.1	16.5	16.0	15.4	14.9	13.1
92.5°	26.6	26.9	27.2	27.5	27.7	27.7	27.3	26.8	26.4	26.0	25.2
95°	48.3	48.3	48.3	48.3	48.3	48.0	47.5	46.9	46.4	45.8	44.7
97.5°	69.4	69.5	69.6	69.8	69.9	69.6	69.0	68.3	67.6	66.9	66.1
100°	94.1	93.9	93.6	93.3	93.0	92.7	92.3	91.9	91.5	91.0	90.4
102.5°	119.5	119.7	119.8	119.9	120.1	119.9	119.5	119.1	118.7	118.3	117.3
105°	147.4	147.1	146.9	146.6	146.3	146.2	146.2	146.2	146.2	146.2	144.9
107.5°	175.9	176.0	176.2	176.3	176.4	176.3	175.9	175.5	175.1	174.7	174.1
110°	205.0	205.3	205.6	205.8	206.1	206.0	205.4	204.9	204.3	203.8	203.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	236.0	236.0	236.0	236.0	236.0	235.6	234.9	234.3	233.6	232.9	232.9
115°	263.8	264.0	264.1	264.3	264.4	264.4	264.3	264.1	264.0	263.8	264.1
117.5°	292.3	292.8	293.2	293.6	294.0	294.2	294.2	294.2	294.2	294.2	294.5
120°	322.7	323.0	323.2	323.5	323.8	324.0	324.1	324.3	324.4	324.5	325.2
122.5°	351.8	352.2	352.6	353.0	353.4	353.9	354.3	354.7	355.1	355.5	355.8
125°	380.9	381.5	382.0	382.6	383.1	383.7	384.2	384.8	385.3	385.9	386.1
127.5°	410.0	410.6	411.1	411.7	412.2	412.9	413.7	414.6	415.4	416.2	416.5
130°	438.5	439.5	440.4	441.4	442.4	443.1	443.7	444.2	444.8	445.3	445.7
132.5°	468.2	468.9	469.6	470.3	471.0	471.7	472.4	473.1	473.7	474.4	474.7
135°	499.2	499.5	499.8	500.0	500.3	500.7	501.3	501.8	502.4	502.9	503.1
137.5°	526.5	526.9	527.3	527.7	528.1	528.7	529.3	530.0	530.7	531.4	531.0
140°	553.1	554.1	555.0	556.0	556.9	557.5	557.6	557.8	557.9	558.0	557.9
142.5°	580.3	581.0	581.7	582.4	583.1	583.5	583.6	583.8	583.9	584.1	583.8
145°	606.4	606.9	607.5	608.0	608.6	608.9	609.0	609.2	609.3	609.5	609.0
147.5°	629.9	630.7	631.5	632.4	633.2	633.6	633.6	633.6	633.6	633.6	633.2
150°	652.2	653.0	653.8	654.7	655.5	655.9	655.9	655.9	655.9	655.9	655.6
152.5°	673.9	674.6	675.2	675.9	676.6	676.8	676.5	676.3	676.0	675.7	675.6
155°	693.1	694.0	695.0	696.0	696.9	697.1	696.6	696.0	695.5	694.9	694.8
157.5°	711.0	711.9	712.7	713.5	714.3	714.5	713.9	713.4	712.8	712.3	712.1
160°	728.4	728.9	729.5	730.0	730.6	730.5	729.8	729.1	728.4	727.7	727.7
162.5°	741.4	742.3	743.3	744.3	745.2	745.4	744.7	744.0	743.3	742.6	742.5
165°	753.8	754.7	755.7	756.7	757.6	757.7	756.9	756.0	755.2	754.4	754.4
167.5°	764.9	765.7	766.6	767.4	768.2	768.2	767.4	766.6	765.7	764.9	764.8
170°	773.0	773.9	774.9	775.9	776.8	776.8	775.9	774.9	773.9	773.0	773.0
172.5°	779.2	780.1	781.1	782.0	783.0	783.1	782.3	781.4	780.6	779.8	779.8
175°	783.5	784.5	785.4	786.4	787.3	787.4	786.6	785.8	784.9	784.1	784.1
177.5°	786.0	786.9	787.9	788.9	789.8	789.9	789.1	788.2	787.4	786.6	786.6
180°	788.4	788.4	788.4	788.4	788.4	788.4	788.4	788.4	788.4	788.4	788.4



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2570.6	2570.6	2570.6	2570.6	2570.6	2570.6	2570.6	2570.6	2570.6	2570.6	2570.6
2.5°	2729.3	2726.6	2701.3	2676.0	2651.3	2626.5	2608.1	2589.6	2558.5	2527.4	2507.9
5°	2898.4	2878.4	2838.4	2798.3	2738.2	2678.1	2627.6	2577.0	2512.7	2448.4	2394.6
7.5°	2992.8	2976.4	2927.9	2879.5	2799.9	2720.3	2641.3	2562.2	2467.4	2372.5	2291.3
10°	2995.4	3009.1	2969.0	2929.0	2839.4	2749.8	2642.3	2534.8	2407.3	2279.7	2174.9
12.5°	2901.6	2960.6	2952.2	2943.8	2852.6	2761.4	2630.7	2500.0	2343.5	2187.0	2055.8
15°	2726.1	2840.5	2874.2	2907.9	2832.6	2757.2	2608.6	2460.0	2276.1	2092.1	1941.4
17.5°	2500.0	2660.2	2749.3	2838.4	2783.5	2728.7	2565.9	2403.1	2196.0	1988.9	1825.0
20°	2232.3	2442.1	2581.7	2721.4	2701.3	2681.3	2513.2	2345.1	2121.7	1898.2	1720.6
22.5°	1967.8	2189.1	2382.0	2574.9	2595.4	2616.0	2446.3	2276.6	2032.1	1787.5	1606.8
25°	1739.6	1964.6	2194.4	2424.1	2470.5	2516.9	2355.6	2194.4	1940.9	1687.4	1507.7
27.5°	1521.9	1735.9	1988.9	2241.8	2326.1	2410.4	2262.9	2115.3	1851.3	1587.3	1408.1
30°	1344.3	1535.6	1793.9	2052.1	2169.6	2287.1	2151.7	2016.3	1754.3	1492.4	1316.9
32.5°	1178.9	1350.1	1609.4	1868.7	2005.2	2141.7	2024.7	1907.7	1655.8	1403.9	1230.5
35°	1048.2	1201.5	1443.4	1685.3	1838.1	1991.0	1895.0	1799.1	1553.0	1306.9	1143.0
37.5°	935.9	1064.5	1291.6	1518.8	1681.1	1843.4	1763.3	1683.2	1451.9	1220.5	1065.6
40°	843.2	946.5	1157.8	1369.1	1528.3	1687.4	1618.9	1550.4	1343.3	1136.2	991.3
42.5°	763.6	852.7	1042.4	1232.1	1378.1	1524.0	1478.7	1433.4	1245.8	1058.2	923.8
45°	693.5	768.3	935.4	1102.5	1236.8	1371.2	1335.4	1299.6	1137.8	976.0	852.7
47.5°	631.3	695.6	844.8	993.9	1114.6	1235.3	1202.1	1168.9	1035.0	901.1	788.9
50°	574.4	629.2	753.6	878.0	986.5	1095.1	1067.7	1040.3	929.6	818.9	722.0
52.5°	520.7	566.0	677.7	789.4	876.9	964.4	943.3	922.2	836.9	751.5	663.5
55°	469.5	511.2	605.5	699.8	774.7	849.5	828.4	807.3	740.9	674.5	597.1
57.5°	423.2	459.5	535.9	612.4	671.9	731.5	721.4	711.4	656.1	600.8	537.0
60°	374.2	406.8	472.7	538.6	586.5	634.5	622.9	611.3	571.8	532.3	477.5
62.5°	330.4	359.4	412.1	464.8	503.8	542.8	534.4	525.9	495.9	465.9	420.5
65°	284.6	313.0	355.7	398.4	429.0	459.5	452.2	444.8	422.1	399.5	363.1
67.5°	242.9	266.7	303.5	340.4	361.0	381.5	377.3	373.1	355.7	338.3	309.9
70°	200.8	221.3	251.9	282.5	296.7	310.9	312.5	314.1	298.3	282.5	261.4
72.5°	158.6	175.0	203.4	231.9	242.9	254.0	253.5	253.0	243.5	234.0	215.0
75°	121.7	133.9	156.0	178.1	187.6	197.1	199.2	201.3	192.4	183.4	172.9
77.5°	87.5	95.9	112.8	129.6	140.2	150.7	151.8	152.8	148.6	144.4	134.4
80°	61.7	64.3	74.8	85.4	96.4	107.5	109.1	110.7	106.5	102.2	95.9
82.5°	42.7	44.3	48.0	51.6	60.6	69.6	71.7	73.8	71.7	69.6	62.7
85°	25.8	26.3	27.9	29.5	33.7	37.9	40.1	42.2	41.1	40.1	36.4
87.5°	11.6	11.6	12.1	12.6	13.7	14.8	17.4	20.0	18.4	16.9	15.3
90°	11.3	9.5	7.7	6.1	4.7	3.4	2.0	0.6	2.0	3.4	4.7
92.5°	24.4	23.5	22.7	21.9	21.1	20.2	19.4	18.6	19.4	20.2	21.1
95°	43.6	42.5	41.4	40.4	39.4	38.5	37.5	36.5	37.5	38.5	39.4
97.5°	65.2	64.4	63.6	62.8	62.1	61.5	60.8	60.1	60.8	61.5	62.1
100°	89.7	89.0	88.3	87.5	86.7	85.9	85.1	84.2	85.1	85.9	86.7
102.5°	116.4	115.4	114.4	113.8	113.3	112.9	112.5	112.1	112.5	112.9	113.3
105°	143.7	142.5	141.2	140.5	140.2	139.9	139.6	139.4	139.6	139.9	140.2
107.5°	173.6	173.0	172.5	172.1	172.0	171.8	171.7	171.6	171.7	171.8	172.0
110°	203.2	202.9	202.7	202.4	202.1	201.8	201.6	201.3	201.6	201.8	202.1





TEST NUMBER: P831886

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	232.9	232.9	232.9	232.8	232.7	232.5	232.4	232.3	232.4	232.5	232.7
115°	264.4	264.7	264.9	264.9	264.5	264.1	263.6	263.2	263.6	264.1	264.5
117.5°	294.7	295.0	295.3	295.4	295.2	295.1	295.0	294.8	295.0	295.1	295.2
120°	325.9	326.6	327.3	327.2	326.4	325.6	324.8	323.9	324.8	325.6	326.4
122.5°	356.1	356.3	356.6	356.5	355.9	355.4	354.8	354.3	354.8	355.4	355.9
125°	386.4	386.7	387.0	386.9	386.5	386.1	385.7	385.2	385.7	386.1	386.5
127.5°	416.8	417.0	417.3	417.0	416.2	415.4	414.6	413.7	414.6	415.4	416.2
130°	446.1	446.6	447.0	446.6	445.5	444.4	443.3	442.2	443.3	444.4	445.5
132.5°	475.0	475.3	475.5	475.1	474.0	472.9	471.8	470.7	471.8	472.9	474.0
135°	503.2	503.3	503.5	503.1	502.3	501.5	500.7	499.8	500.7	501.5	502.3
137.5°	530.6	530.2	529.8	529.2	528.5	527.8	527.1	526.5	527.1	527.8	528.5
140°	557.8	557.6	557.5	557.1	556.4	555.7	555.0	554.3	555.0	555.7	556.4
142.5°	583.5	583.2	583.0	582.5	581.8	581.1	580.4	579.7	580.4	581.1	581.8
145°	608.6	608.2	607.8	607.5	607.2	606.9	606.6	606.4	606.6	606.9	607.2
147.5°	632.8	632.4	632.0	631.5	630.9	630.4	629.8	629.3	629.8	630.4	630.9
150°	655.4	655.1	654.8	654.5	654.3	654.0	653.7	653.4	653.7	654.0	654.3
152.5°	675.4	675.3	675.2	674.9	674.5	674.1	673.7	673.2	673.7	674.1	674.5
155°	694.6	694.5	694.4	694.3	694.3	694.3	694.3	694.3	694.3	694.3	694.3
157.5°	712.0	711.9	711.7	711.7	711.9	712.0	712.1	712.3	712.1	712.0	711.9
160°	727.7	727.7	727.7	727.9	728.2	728.4	728.7	729.0	728.7	728.4	728.2
162.5°	742.3	742.2	742.1	742.2	742.6	743.0	743.4	743.9	743.4	743.0	742.6
165°	754.4	754.4	754.4	754.6	755.0	755.4	755.8	756.2	755.8	755.4	755.0
167.5°	764.6	764.5	764.4	764.6	765.1	765.7	766.2	766.8	766.2	765.7	765.1
170°	773.0	773.0	773.0	773.2	773.8	774.3	774.9	775.4	774.9	774.3	773.8
172.5°	779.8	779.8	779.8	780.1	780.6	781.2	781.7	782.3	781.7	781.2	780.6
175°	784.1	784.1	784.1	784.4	784.9	785.5	786.0	786.6	786.0	785.5	784.9
177.5°	786.6	786.6	786.6	786.9	787.4	788.0	788.5	789.1	788.5	788.0	787.4
180°	788.4	788.4	788.4	788.4	788.4	788.4	788.4	788.4	788.4	788.4	788.4



TEST NUMBER: P831886

CATALOG NUMBER: S123RDIP-S1000D805U927-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2570.6	2570.6	2570.6	2570.6	2570.6	2570.6	2570.6	2570.6	2570.6	2570.6	2570.6
2.5°	2488.4	2458.4	2428.4	2406.8	2385.1	2358.3	2331.4	2330.3	2329.3	2309.3	2289.2
5°	2340.9	2288.7	2236.5	2185.4	2134.3	2083.2	2032.1	2020.5	2008.9	1991.5	1974.1
7.5°	2210.2	2126.9	2043.7	1978.3	1913.0	1861.8	1810.7	1775.9	1741.2	1714.3	1687.4
10°	2070.0	1966.7	1863.4	1784.4	1705.3	1650.0	1594.7	1554.6	1514.6	1495.6	1476.6
12.5°	1924.6	1812.3	1700.1	1622.6	1545.1	1478.7	1412.3	1376.0	1339.6	1313.3	1286.9
15°	1790.7	1670.0	1549.3	1467.1	1384.9	1322.7	1260.6	1224.2	1187.8	1161.5	1135.1
17.5°	1661.1	1539.3	1417.6	1334.3	1251.1	1194.7	1138.3	1103.0	1067.7	1051.3	1035.0
20°	1543.0	1420.2	1297.4	1218.9	1140.4	1085.1	1029.7	1010.8	991.8	976.5	961.2
22.5°	1426.0	1308.0	1189.9	1114.6	1039.2	999.2	959.1	943.8	928.6	917.0	905.4
25°	1328.0	1210.5	1093.0	1027.1	961.2	930.1	899.0	889.0	879.0	867.4	855.8
27.5°	1228.9	1117.2	1005.5	952.8	900.1	874.8	849.5	836.9	824.2	814.7	805.2
30°	1141.5	1038.2	934.9	891.1	847.4	825.3	803.1	789.4	775.7	766.8	757.8
32.5°	1057.1	965.4	873.7	836.3	798.9	777.3	755.7	742.5	729.4	718.8	708.3
35°	979.1	899.6	820.0	785.7	751.5	729.9	708.3	695.1	681.9	671.4	660.8
37.5°	910.6	838.4	766.2	734.1	701.9	683.0	664.0	650.3	636.6	625.5	614.5
40°	846.3	782.6	718.8	687.7	656.6	636.1	615.5	603.4	591.3	581.3	571.3
42.5°	789.4	730.9	672.4	641.9	611.3	591.8	572.3	558.1	543.9	538.1	532.3
45°	729.4	677.7	626.1	596.5	567.0	546.5	525.9	513.8	501.7	496.4	491.2
47.5°	676.7	628.7	580.7	551.8	522.8	504.3	485.9	476.4	466.9	459.5	452.2
50°	625.0	578.6	532.3	504.3	476.4	460.6	444.8	433.2	421.6	416.3	411.1
52.5°	575.5	533.3	491.2	462.7	434.2	419.0	403.7	393.7	383.6	372.6	361.5
55°	519.6	482.7	445.8	420.5	395.2	379.4	363.6	352.0	340.4	328.8	317.2
57.5°	473.2	436.9	400.5	377.8	355.2	339.9	324.6	312.0	299.3	289.8	280.4
60°	422.6	391.0	359.4	337.3	315.1	300.4	285.6	273.5	261.4	256.6	251.9
62.5°	375.2	345.7	316.2	296.7	277.2	263.0	248.7	240.8	232.9	229.8	226.6
65°	326.7	301.4	276.1	258.2	240.3	228.2	216.1	212.4	208.7	206.1	203.4
67.5°	281.4	259.8	238.2	222.4	206.6	198.1	189.7	185.5	181.3	178.1	175.0
70°	240.3	221.3	202.4	188.7	175.0	167.1	159.2	155.5	151.8	146.0	140.2
72.5°	196.0	181.3	166.5	156.0	145.4	138.6	131.7	124.4	117.0	111.7	106.5
75°	162.3	147.6	132.8	122.8	112.8	104.9	97.0	94.3	91.7	90.1	88.5
77.5°	124.4	111.7	99.1	91.2	83.3	79.6	75.9	74.3	72.7	72.2	71.7
80°	89.6	79.0	68.5	64.3	60.1	59.0	58.0	56.9	55.9	55.3	54.8
82.5°	55.9	50.6	45.3	44.3	43.2	42.7	42.2	41.6	41.1	40.6	40.1
85°	32.7	30.6	28.5	27.9	27.4	26.9	26.3	26.3	26.3	26.3	26.3
87.5°	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.2	12.6
90°	6.1	7.7	9.5	11.3	13.1	14.9	15.4	16.0	16.5	17.1	17.5
92.5°	21.9	22.7	23.5	24.4	25.2	26.0	26.4	26.8	27.3	27.7	27.7
95°	40.4	41.4	42.5	43.6	44.7	45.8	46.4	46.9	47.5	48.0	48.3
97.5°	62.8	63.6	64.4	65.2	66.1	66.9	67.6	68.3	69.0	69.6	69.9
100°	87.5	88.3	89.0	89.7	90.4	91.0	91.5	91.9	92.3	92.7	93.0
102.5°	113.8	114.4	115.4	116.4	117.3	118.3	118.7	119.1	119.5	119.9	120.1
105°	140.5	141.2	142.5	143.7	144.9	146.2	146.2	146.2	146.2	146.2	146.3
107.5°	172.1	172.5	173.0	173.6	174.1	174.7	175.1	175.5	175.9	176.3	176.4
110°	202.4	202.7	202.9	203.2	203.5	203.8	204.3	204.9	205.4	206.0	206.1



TEST NUMBER: P831886

CATALOG NUMBER: S123RDIP-S1000D805U927-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	232.8	232.9	232.9	232.9	232.9	232.9	233.6	234.3	234.9	235.6	236.0
115°	264.9	264.9	264.7	264.4	264.1	263.8	264.0	264.1	264.3	264.4	264.4
117.5°	295.4	295.3	295.0	294.7	294.5	294.2	294.2	294.2	294.2	294.2	294.0
120°	327.2	327.3	326.6	325.9	325.2	324.5	324.4	324.3	324.1	324.0	323.8
122.5°	356.5	356.6	356.3	356.1	355.8	355.5	355.1	354.7	354.3	353.9	353.4
125°	386.9	387.0	386.7	386.4	386.1	385.9	385.3	384.8	384.2	383.7	383.1
127.5°	417.0	417.3	417.0	416.8	416.5	416.2	415.4	414.6	413.7	412.9	412.2
130°	446.6	447.0	446.6	446.1	445.7	445.3	444.8	444.2	443.7	443.1	442.4
132.5°	475.1	475.5	475.3	475.0	474.7	474.4	473.7	473.1	472.4	471.7	471.0
135°	503.1	503.5	503.3	503.2	503.1	502.9	502.4	501.8	501.3	500.7	500.3
137.5°	529.2	529.8	530.2	530.6	531.0	531.4	530.7	530.0	529.3	528.7	528.1
140°	557.1	557.5	557.6	557.8	557.9	558.0	557.9	557.8	557.6	557.5	556.9
142.5°	582.5	583.0	583.2	583.5	583.8	584.1	583.9	583.8	583.6	583.5	583.1
145°	607.5	607.8	608.2	608.6	609.0	609.5	609.3	609.2	609.0	608.9	608.6
147.5°	631.5	632.0	632.4	632.8	633.2	633.6	633.6	633.6	633.6	633.6	633.2
150°	654.5	654.8	655.1	655.4	655.6	655.9	655.9	655.9	655.9	655.9	655.5
152.5°	674.9	675.2	675.3	675.4	675.6	675.7	676.0	676.3	676.5	676.8	676.6
155°	694.3	694.4	694.5	694.6	694.8	694.9	695.5	696.0	696.6	697.1	696.9
157.5°	711.7	711.7	711.9	712.0	712.1	712.3	712.8	713.4	713.9	714.5	714.3
160°	727.9	727.7	727.7	727.7	727.7	727.7	728.4	729.1	729.8	730.5	730.6
162.5°	742.2	742.1	742.2	742.3	742.5	742.6	743.3	744.0	744.7	745.4	745.2
165°	754.6	754.4	754.4	754.4	754.4	754.4	755.2	756.0	756.9	757.7	757.6
167.5°	764.6	764.4	764.5	764.6	764.8	764.9	765.7	766.6	767.4	768.2	768.2
170°	773.2	773.0	773.0	773.0	773.0	773.0	773.9	774.9	775.9	776.8	776.8
172.5°	780.1	779.8	779.8	779.8	779.8	779.8	780.6	781.4	782.3	783.1	783.0
175°	784.4	784.1	784.1	784.1	784.1	784.1	784.9	785.8	786.6	787.4	787.3
177.5°	786.9	786.6	786.6	786.6	786.6	786.6	787.4	788.2	789.1	789.9	789.8
180°	788.4	788.4	788.4	788.4	788.4	788.4	788.4	788.4	788.4	788.4	788.4



TEST NUMBER: P831886

CATALOG NUMBER: S123RDIP-S1000D805U927-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	2570.6	2570.6	2570.6	2570.6
2.5°	2284.0	2278.7	2276.6	2274.5
5°	1957.8	1941.4	1937.7	1934.0
7.5°	1680.6	1673.7	1651.1	1628.4
10°	1455.5	1434.5	1425.0	1415.5
12.5°	1267.4	1247.9	1244.7	1241.6
15°	1121.4	1107.7	1103.0	1098.2
17.5°	1025.5	1016.0	1010.2	1004.4
20°	954.4	947.5	943.3	939.1
22.5°	900.1	894.8	891.7	888.5
25°	847.9	840.0	837.4	834.7
27.5°	798.4	791.5	788.9	786.3
30°	752.0	746.2	742.5	738.8
32.5°	701.4	694.6	692.5	690.4
35°	656.6	652.4	650.3	648.2
37.5°	609.2	603.9	600.8	597.6
40°	568.6	566.0	564.4	562.8
42.5°	527.5	522.8	522.2	521.7
45°	486.4	481.7	480.6	479.6
47.5°	447.9	443.7	443.2	442.7
50°	405.3	399.5	395.2	391.0
52.5°	356.2	351.0	347.3	343.6
55°	311.4	305.7	302.5	299.3
57.5°	277.7	275.1	273.5	271.9
60°	250.3	248.7	247.7	246.6
62.5°	225.0	223.4	223.4	223.4
65°	201.8	200.3	198.7	197.1
67.5°	171.8	168.6	168.1	167.6
70°	135.4	130.7	130.2	129.6
72.5°	105.9	105.4	104.3	103.3
75°	87.5	86.4	86.4	86.4
77.5°	70.6	69.6	69.6	69.6
80°	54.3	53.8	54.3	54.8
82.5°	40.1	40.1	39.5	39.0
85°	25.8	25.3	25.3	25.3
87.5°	12.6	12.6	12.6	12.6
90°	17.8	18.0	18.3	18.6
92.5°	27.5	27.2	26.9	26.6
95°	48.3	48.3	48.3	48.3
97.5°	69.8	69.6	69.5	69.4
100°	93.3	93.6	93.9	94.1
102.5°	119.9	119.8	119.7	119.5
105°	146.6	146.9	147.1	147.4
107.5°	176.3	176.2	176.0	175.9
110°	205.8	205.6	205.3	205.0



TEST NUMBER: P831886

CATALOG NUMBER: S123RDIP-S1000D805U927-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
112.5°	236.0	236.0	236.0	236.0
115°	264.3	264.1	264.0	263.8
117.5°	293.6	293.2	292.8	292.3
120°	323.5	323.2	323.0	322.7
122.5°	353.0	352.6	352.2	351.8
125°	382.6	382.0	381.5	380.9
127.5°	411.7	411.1	410.6	410.0
130°	441.4	440.4	439.5	438.5
132.5°	470.3	469.6	468.9	468.2
135°	500.0	499.8	499.5	499.2
137.5°	527.7	527.3	526.9	526.5
140°	556.0	555.0	554.1	553.1
142.5°	582.4	581.7	581.0	580.3
145°	608.0	607.5	606.9	606.4
147.5°	632.4	631.5	630.7	629.9
150°	654.7	653.8	653.0	652.2
152.5°	675.9	675.2	674.6	673.9
155°	696.0	695.0	694.0	693.1
157.5°	713.5	712.7	711.9	711.0
160°	730.0	729.5	728.9	728.4
162.5°	744.3	743.3	742.3	741.4
165°	756.7	755.7	754.7	753.8
167.5°	767.4	766.6	765.7	764.9
170°	775.9	774.9	773.9	773.0
172.5°	782.0	781.1	780.1	779.2
175°	786.4	785.4	784.5	783.5
177.5°	788.9	787.9	786.9	786.0
180°	788.4	788.4	788.4	788.4



TEST NUMBER: P831886

CATALOG NUMBER: S123RDIP-S1000D805U927-4F0-1E-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	13.26	14.15	14.13	15.04	16.15	17.92	18.82	18.79	19.70	20.81
	3H	14.48	15.28	15.36	16.18	17.31	19.42	20.23	20.31	21.12	22.26
	4H	14.87	15.62	15.76	16.52	17.67	19.92	20.67	20.82	21.57	22.72
	6H	15.15	15.85	16.06	16.75	17.91	20.23	20.93	21.14	21.83	22.99
	8H	15.24	15.90	16.16	16.82	17.98	20.31	20.98	21.23	21.90	23.06
	12H	15.29	15.92	16.22	16.84	18.02	20.35	20.98	21.27	21.89	23.08
4H	2H	13.99	14.74	14.89	15.64	16.79	17.92	18.68	18.83	19.58	20.73
	3H	15.36	15.99	16.27	16.92	18.08	19.59	20.22	20.50	21.14	22.31
	4H	15.82	16.39	16.74	17.32	18.50	20.20	20.77	21.12	21.69	22.88
	6H	16.19	16.68	17.13	17.63	18.82	20.64	21.13	21.57	22.08	23.27
	8H	16.32	16.78	17.26	17.72	18.92	20.77	21.23	21.71	22.17	23.37
	12H	16.40	16.81	17.35	17.77	18.98	20.83	21.25	21.79	22.21	23.41
8H	4H	16.14	16.60	17.08	17.54	18.74	20.17	20.63	21.11	21.57	22.77
	6H	16.60	16.98	17.57	17.97	19.17	20.67	21.04	21.63	22.03	23.23
	8H	16.80	17.13	17.77	18.11	19.33	20.85	21.19	21.83	22.16	23.38
	12H	16.94	17.23	17.92	18.20	19.47	20.97	21.27	21.95	22.23	23.50
12H	4H	16.15	16.57	17.11	17.53	18.73	20.12	20.53	21.08	21.49	22.70
	6H	16.66	17.00	17.64	17.97	19.19	20.64	20.98	21.62	21.95	23.17
	8H	16.89	17.18	17.86	18.15	19.41	20.84	21.13	21.81	22.10	23.37