

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: P832143

Luminaire Tested: S123RDIP-S340D805U830-4F0-1E-UDD-G

Issue Date: 05/03/2024

Test Information

Test Method: LM-79-2019
Report Number: P832143
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-S340D805U830-4F0-1E-UDD-G
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, GRAZE OPTIC
UPLIGHT 805 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: -

Summary

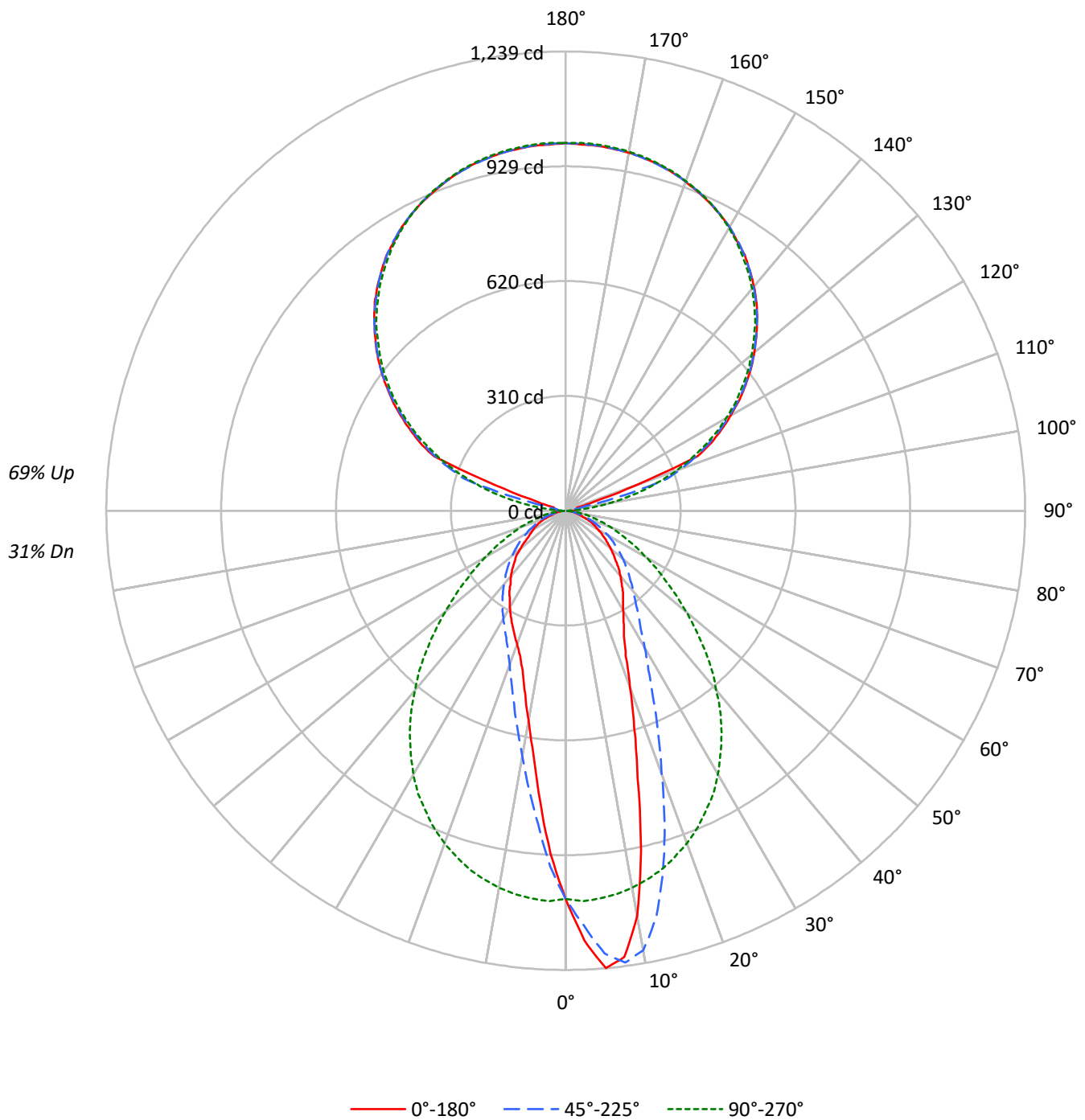
Lumens per Lamp: N/A
Luminaire Lumens: 4413.8 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 1.17 / 0.8
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 33
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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31		
1	94	90	87	83	85	81	78	76	65	63	61	49	48	47	35	35	34	27		
2	86	79	74	69	77	72	67	63	57	54	51	44	42	40	32	30	29	24		
3	79	70	63	58	71	63	58	53	51	47	44	39	37	34	29	27	26	21		
4	72	62	55	49	65	57	50	45	46	41	38	35	32	30	26	24	23	19		
5	67	56	48	43	60	51	44	39	41	36	33	32	29	26	24	22	20	17		
6	61	50	43	37	55	46	39	34	37	32	29	29	26	23	22	20	18	15		
7	57	45	38	33	51	41	35	30	34	29	26	27	23	21	20	18	16	14		
8	53	41	34	29	48	38	31	27	31	26	23	25	21	19	19	16	15	12		
9	49	38	31	26	45	35	28	24	29	24	21	23	19	17	17	15	14	11		
10	46	35	28	23	42	32	26	22	26	22	19	21	18	16	16	14	13	11		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	11271	11271	11271	11271	11271
5°	13383	12956	11342	9168	8512
10°	12125	13160	11285	7346	6302
15°	8349	11283	11166	6004	4985
20°	5808	8687	10942	5063	4381
25°	4425	6621	10615	4500	4038
30°	3853	5294	10208	4179	3740
35°	3537	4465	9629	3907	3469
40°	3228	3988	8873	3641	3222
45°	2915	3647	8057	3389	2973
50°	2646	3364	7095	3141	2668
55°	2393	3089	6172	2901	2288
60°	2144	2809	5360	2635	2164
65°	1979	2493	4615	2366	2045
70°	1608	2156	4025	2140	1662
75°	1410	1713	3410	1776	1464
80°	1277	1450	2796	1488	1382
85°	1161	1272	2124	1346	1272

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 80°

Vertical Angle: 45°

Luminance: 8502 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	2.2
10°-20°	220.8	5.0
20°-30°	253.4	5.7
30°-40°	249.8	5.7
40°-50°	220.3	5.0
50°-60°	169.5	3.8
60°-70°	111.4	2.5
70°-80°	54.1	1.2
80°-90°	15.6	0.4
90°-100°	35.0	0.8
100°-110°	169.0	3.8
110°-120°	414.4	9.4
120°-130°	526.0	11.9
130°-140°	562.0	12.7
140°-150°	525.5	11.9
150°-160°	423.9	9.6
160°-170°	273.5	6.2
170°-180°	94.3	2.1
0°-30°	569.7	12.9
0°-40°	819.4	18.6
0°-60°	1209.1	27.4
0°-90°	1390.3	31.5
90°-120°	618.4	14.0
90°-150°	2231.9	50.6
90°-180°	3024.0	68.5
0°-180°	4413.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1047	1047	1047	1047	1047	
5°	1239	1199	1050	848	788	113
15°	749	1012	1002	539	447	211
25°	373	558	894	379	340	176
35°	269	340	733	297	264	168
45°	192	240	529	223	195	149
55°	128	165	329	155	122	114
65°	78	98	181	93	80	76
75°	34	41	82	43	35	36
85°	9	10	17	11	10	10
90°	22	18	1	18	22	10
95°	28	23	45	23	28	23
105°	32	161	220	161	32	68
115°	433	423	412	423	433	408
125°	592	590	581	590	592	529
135°	730	730	723	730	730	563
145°	842	841	834	841	842	526
155°	917	918	919	918	917	423
165°	967	966	969	966	967	273
175°	988	989	992	989	988	94
180°	992	992	992	992	992	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1
2.5°	1160.4	1156.8	1153.1	1152.1	1151.0	1147.6	1144.1	1136.4	1128.7	1120.7	1112.8
5°	1238.6	1239.0	1239.4	1238.4	1237.3	1232.8	1228.3	1218.8	1209.4	1199.1	1188.8
7.5°	1214.5	1221.4	1228.3	1229.6	1230.8	1234.3	1237.7	1235.6	1233.4	1229.6	1225.7
10°	1109.3	1108.9	1108.5	1116.2	1123.9	1146.9	1169.9	1181.7	1193.5	1204.0	1214.5
12.5°	937.6	938.3	938.9	964.2	989.6	1011.2	1032.9	1063.0	1093.0	1125.4	1157.9
15°	749.2	759.7	770.2	792.7	815.3	847.9	880.5	920.9	961.2	1012.5	1063.8
17.5°	615.2	619.7	624.2	645.9	667.6	698.5	729.4	775.1	820.8	887.0	953.1
20°	507.0	511.1	515.2	530.8	546.5	576.1	605.8	649.3	692.9	758.4	823.9
22.5°	423.3	431.2	439.2	449.7	460.2	481.7	503.2	547.6	592.0	651.7	711.4
25°	372.6	376.3	379.9	389.0	398.0	418.6	439.2	468.6	498.0	557.5	616.9
27.5°	338.3	339.4	340.4	347.1	353.8	367.1	380.4	407.6	434.9	483.8	532.8
30°	310.0	311.9	313.8	319.0	324.1	333.8	343.5	362.8	382.1	425.9	469.7
32.5°	288.1	289.1	290.2	294.5	298.8	305.9	313.0	328.2	343.5	376.9	410.4
35°	269.2	269.4	269.6	272.8	276.0	282.9	289.8	302.5	315.1	339.8	364.5
37.5°	247.7	249.2	250.7	253.1	255.4	261.5	267.5	277.8	288.1	308.5	328.9
40°	229.7	231.0	232.3	235.0	237.8	242.6	247.3	256.7	266.2	283.8	301.4
42.5°	211.7	212.5	213.4	216.2	219.0	224.7	230.5	238.1	245.6	260.2	274.8
45°	191.5	193.6	195.8	198.8	201.8	206.7	211.7	219.4	227.1	239.6	252.0
47.5°	174.7	175.8	176.9	179.5	182.0	188.0	194.0	200.9	207.8	219.4	231.0
50°	158.0	158.4	158.8	161.2	163.6	168.9	174.3	182.2	190.2	200.9	211.7
52.5°	142.1	143.2	144.2	146.6	149.0	152.6	156.3	164.4	172.6	183.1	193.6
55°	127.5	128.2	128.8	130.5	132.2	136.5	140.8	147.9	155.0	164.6	174.3
57.5°	113.8	114.6	115.5	116.8	118.1	121.9	125.8	132.0	138.2	147.9	157.6
60°	99.6	100.7	101.7	103.2	104.8	107.8	110.8	116.3	121.9	130.5	139.1
62.5°	89.3	89.5	89.7	91.0	92.3	94.4	96.6	101.1	105.6	114.2	122.8
65°	77.7	78.3	79.0	79.6	80.3	82.0	83.7	87.6	91.4	97.9	104.3
67.5°	65.7	66.3	67.0	68.0	69.1	70.6	72.1	74.7	77.3	83.3	89.3
70°	51.1	51.1	51.1	52.8	54.5	57.1	59.7	61.6	63.5	68.5	73.4
72.5°	41.6	41.9	42.1	42.3	42.5	44.0	45.5	48.7	51.9	55.0	58.0
75°	33.9	34.1	34.3	34.6	34.8	35.2	35.6	36.7	37.8	41.2	44.6
77.5°	27.0	27.3	27.5	27.7	27.9	28.3	28.8	29.2	29.6	30.9	32.2
80°	20.6	20.8	21.0	21.3	21.5	21.7	21.9	22.3	22.8	23.4	24.0
82.5°	15.0	15.0	15.0	15.0	15.0	15.5	15.9	15.9	15.9	16.3	16.7
85°	9.4	9.4	9.4	9.7	9.9	9.9	9.9	10.1	10.3	10.3	10.3
87.5°	4.3	4.1	3.9	4.1	4.3	4.3	4.3	4.5	4.7	4.7	4.7
90°	22.1	21.8	21.5	21.1	20.8	20.3	19.6	19.0	18.3	17.7	15.6
92.5°	25.1	24.9	24.7	24.6	24.4	23.7	22.6	21.5	20.3	19.2	17.7
95°	28.0	28.0	28.0	28.0	28.0	27.4	26.3	25.1	24.0	22.8	21.0
97.5°	30.2	30.0	29.9	29.7	29.6	28.8	27.5	26.2	24.9	23.6	31.9
100°	30.9	30.8	30.6	30.5	30.3	29.6	28.2	26.9	25.6	24.3	49.9
102.5°	31.7	31.4	31.0	30.7	30.4	32.9	38.3	43.7	49.1	54.5	83.0
105°	32.4	32.1	31.8	31.4	31.1	45.4	74.4	103.4	132.4	161.4	176.1
107.5°	76.6	98.1	119.5	141.0	162.4	185.8	211.0	236.2	261.4	286.6	284.2
110°	202.6	226.1	249.5	272.9	296.3	310.7	316.1	321.5	326.9	332.3	330.5

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	383.9	384.2	384.6	384.9	385.2	384.6	383.2	381.7	380.2	378.8	377.0
115°	433.3	432.6	432.0	431.3	430.7	429.5	427.9	426.2	424.6	423.0	421.5
117.5°	473.1	472.9	472.7	472.6	472.4	471.7	470.4	469.1	467.8	466.4	465.6
120°	514.3	514.3	514.3	514.3	514.3	513.7	512.4	511.1	509.8	508.4	508.0
122.5°	554.9	554.7	554.5	554.4	554.2	553.7	552.9	552.1	551.3	550.4	549.8
125°	592.4	592.1	591.8	591.5	591.1	590.8	590.5	590.2	589.8	589.5	588.8
127.5°	629.3	629.6	629.9	630.3	630.6	630.5	630.0	629.5	629.0	628.6	627.7
130°	664.7	665.0	665.3	665.6	666.0	665.8	665.2	664.5	663.8	663.2	662.5
132.5°	697.1	697.6	698.1	698.6	699.0	699.0	698.3	697.7	697.0	696.3	695.9
135°	730.2	730.7	731.2	731.7	732.2	732.2	731.7	731.2	730.7	730.2	729.6
137.5°	761.9	762.3	762.6	762.9	763.2	763.0	762.2	761.4	760.5	759.7	759.4
140°	789.9	790.3	790.6	790.9	791.2	791.1	790.4	789.8	789.1	788.5	788.0
142.5°	815.7	816.2	816.7	817.2	817.7	817.7	817.2	816.7	816.2	815.7	815.2
145°	842.2	842.2	842.2	842.2	842.2	842.1	841.8	841.4	841.1	840.8	840.4
147.5°	861.4	862.2	863.0	863.9	864.7	864.9	864.6	864.3	863.9	863.6	863.3
150°	883.5	884.0	884.5	885.0	885.5	885.6	885.2	884.9	884.6	884.2	883.9
152.5°	901.2	902.0	902.8	903.7	904.5	904.6	903.9	903.2	902.6	901.9	901.8
155°	917.4	918.4	919.4	920.4	921.3	921.4	920.6	919.8	919.0	918.1	918.0
157.5°	931.4	932.7	934.0	935.3	936.6	936.8	935.8	934.8	933.9	932.9	933.0
160°	944.7	945.8	947.0	948.1	949.3	949.3	948.4	947.4	946.4	945.4	945.6
162.5°	957.2	958.2	959.2	960.1	961.1	961.0	959.9	958.8	957.6	956.5	956.6
165°	966.8	967.9	969.1	970.2	971.4	971.3	970.0	968.7	967.4	966.0	966.2
167.5°	974.1	975.5	976.8	978.1	979.4	979.4	978.1	976.8	975.5	974.1	974.1
170°	980.8	982.1	983.4	984.7	986.0	986.0	984.7	983.4	982.1	980.8	980.8
172.5°	984.5	985.9	987.4	988.9	990.4	990.4	989.1	987.8	986.5	985.2	985.0
175°	988.1	989.5	990.8	992.1	993.4	993.5	992.3	991.2	990.0	988.9	988.7
177.5°	988.9	990.5	992.2	993.8	995.4	995.6	994.3	993.0	991.7	990.4	990.2
180°	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1
2.5°	1111.7	1110.6	1100.3	1090.0	1079.9	1069.9	1062.3	1054.8	1042.2	1029.5	1021.6
5°	1180.6	1172.5	1156.1	1139.8	1115.4	1090.9	1070.3	1049.7	1023.5	997.3	975.4
7.5°	1219.0	1212.4	1192.6	1172.9	1140.5	1108.1	1075.9	1043.7	1005.0	966.4	933.3
10°	1220.1	1225.7	1209.4	1193.1	1156.6	1120.1	1076.3	1032.5	980.6	928.6	885.9
12.5°	1181.9	1205.9	1202.5	1199.1	1161.9	1124.8	1071.6	1018.3	954.6	890.8	837.4
15°	1110.4	1157.0	1170.7	1184.5	1153.8	1123.1	1062.6	1002.0	927.1	852.2	790.8
17.5°	1018.3	1083.6	1119.9	1156.1	1133.8	1111.5	1045.2	978.8	894.5	810.1	743.4
20°	909.3	994.7	1051.6	1108.5	1100.3	1092.2	1023.7	955.2	864.2	773.2	700.9
22.5°	801.5	891.7	970.2	1048.8	1057.2	1065.6	996.4	927.3	827.7	728.1	654.5
25°	708.6	800.2	893.8	987.4	1006.3	1025.2	959.5	893.8	790.6	687.3	614.1
27.5°	619.9	707.1	810.1	913.2	947.5	981.8	921.7	861.6	754.1	646.5	573.6
30°	547.6	625.5	730.7	835.9	883.7	931.6	876.4	821.3	714.6	607.9	536.4
32.5°	480.2	550.0	655.6	761.2	816.8	872.4	824.7	777.1	674.5	571.8	501.2
35°	427.0	489.4	587.9	686.5	748.7	811.0	771.9	732.8	632.6	532.3	465.6
37.5°	381.2	433.6	526.1	618.6	684.8	750.9	718.2	685.6	591.4	497.1	434.0
40°	343.5	385.5	471.6	557.7	622.5	687.3	659.4	631.5	547.2	462.8	403.8
42.5°	311.0	347.3	424.6	501.9	561.3	620.8	602.3	583.9	507.4	431.0	376.3
45°	282.5	313.0	381.0	449.1	503.8	558.5	543.9	529.3	463.4	397.5	347.3
47.5°	257.2	283.3	344.1	404.8	454.0	503.2	489.6	476.1	421.6	367.1	321.3
50°	234.0	256.3	307.0	357.6	401.8	446.1	434.9	423.7	378.7	333.6	294.1
52.5°	212.1	230.5	276.0	321.6	357.2	392.8	384.2	375.6	340.9	306.1	270.3
55°	191.3	208.2	246.6	285.1	315.5	346.0	337.4	328.9	301.8	274.8	243.2
57.5°	172.4	187.2	218.3	249.4	273.7	297.9	293.9	289.8	267.2	244.7	218.7
60°	152.4	165.7	192.5	219.4	238.9	258.4	253.7	249.0	232.9	216.8	194.5
62.5°	134.6	146.4	167.9	189.3	205.2	221.1	217.7	214.2	202.0	189.8	171.3
65°	115.9	127.5	144.9	162.3	174.7	187.2	184.2	181.2	171.9	162.7	147.9
67.5°	99.0	108.6	123.6	138.7	147.0	155.4	153.7	152.0	144.9	137.8	126.2
70°	81.8	90.2	102.6	115.1	120.9	126.6	127.3	127.9	121.5	115.1	106.5
72.5°	64.6	71.3	82.9	94.4	99.0	103.5	103.2	103.0	99.2	95.3	87.6
75°	49.6	54.5	63.5	72.6	76.4	80.3	81.1	82.0	78.3	74.7	70.4
77.5°	35.6	39.1	45.9	52.8	57.1	61.4	61.8	62.3	60.5	58.8	54.7
80°	25.1	26.2	30.5	34.8	39.3	43.8	44.4	45.1	43.4	41.6	39.1
82.5°	17.4	18.0	19.5	21.0	24.7	28.3	29.2	30.1	29.2	28.3	25.5
85°	10.5	10.7	11.4	12.0	13.7	15.5	16.3	17.2	16.7	16.3	14.8
87.5°	4.7	4.7	4.9	5.2	5.6	6.0	7.1	8.2	7.5	6.9	6.2
90°	13.4	11.3	9.2	7.3	5.6	4.0	2.4	0.7	2.4	4.0	5.6
92.5°	16.2	14.7	13.3	13.0	14.0	15.0	16.0	16.9	16.0	15.0	14.0
95°	19.2	17.4	15.6	18.1	24.8	31.5	38.2	44.9	38.2	31.5	24.8
97.5°	40.3	48.6	57.0	63.5	68.0	72.6	77.2	81.8	77.2	72.6	68.0
100°	75.4	101.0	126.5	137.6	134.4	131.1	127.8	124.5	127.8	131.1	134.4
102.5°	111.5	140.0	168.5	181.7	179.6	177.4	175.3	173.2	175.3	177.4	179.6
105°	190.9	205.6	220.3	226.8	225.0	223.2	221.4	219.6	221.4	223.2	225.0
107.5°	281.7	279.3	276.8	274.9	273.4	271.9	270.4	269.0	270.4	271.9	273.4
110°	328.7	326.9	325.1	323.6	322.3	320.9	319.6	318.3	319.6	320.9	322.3

TEST NUMBER: P832143

CATALOG NUMBER: S123RDIP-S340D805U830-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	375.2	373.3	371.5	370.1	368.9	367.8	366.6	365.5	366.6	367.8	368.9
115°	420.0	418.5	417.1	415.8	414.9	413.9	412.9	411.9	412.9	413.9	414.9
117.5°	464.8	464.0	463.2	462.2	461.0	459.9	458.7	457.6	458.7	459.9	461.0
120°	507.5	507.0	506.5	505.5	504.0	502.5	501.1	499.6	501.1	502.5	504.0
122.5°	549.1	548.5	547.8	546.9	545.8	544.6	543.5	542.3	543.5	544.6	545.8
125°	588.2	587.5	586.9	585.9	584.6	583.3	582.0	580.7	582.0	583.3	584.6
127.5°	626.9	626.1	625.3	624.2	622.9	621.6	620.3	619.0	620.3	621.6	622.9
130°	661.9	661.2	660.6	659.6	658.3	657.0	655.7	654.3	655.7	657.0	658.3
132.5°	695.4	694.9	694.4	693.5	692.2	690.9	689.6	688.2	689.6	690.9	692.2
135°	728.9	728.3	727.6	726.8	725.8	724.8	723.9	722.9	723.9	724.8	725.8
137.5°	759.1	758.7	758.4	757.6	756.3	755.0	753.7	752.3	753.7	755.0	756.3
140°	787.5	787.0	786.5	785.8	784.8	783.8	782.8	781.8	782.8	783.8	784.8
142.5°	814.7	814.2	813.8	813.0	812.0	811.1	810.1	809.1	810.1	811.1	812.0
145°	840.1	839.8	839.5	838.7	837.6	836.4	835.3	834.1	835.3	836.4	837.6
147.5°	863.0	862.6	862.3	861.7	860.9	860.1	859.3	858.5	859.3	860.1	860.9
150°	883.6	883.3	882.9	882.5	882.0	881.5	881.1	880.6	881.1	881.5	882.0
152.5°	901.6	901.4	901.3	901.1	901.0	900.8	900.6	900.5	900.6	900.8	901.0
155°	917.8	917.7	917.5	917.6	917.9	918.2	918.6	918.9	918.6	918.2	917.9
157.5°	933.2	933.4	933.5	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6
160°	945.7	945.9	946.1	946.2	946.4	946.6	946.7	946.9	946.7	946.6	946.4
162.5°	956.8	957.0	957.1	957.4	957.9	958.4	958.9	959.4	958.9	958.4	957.9
165°	966.4	966.5	966.7	967.0	967.5	968.0	968.5	969.0	968.5	968.0	967.5
167.5°	974.1	974.1	974.1	974.5	975.1	975.8	976.4	977.1	976.4	975.8	975.1
170°	980.8	980.8	980.8	981.1	981.8	982.4	983.1	983.7	983.1	982.4	981.8
172.5°	984.9	984.7	984.5	984.9	985.7	986.5	987.3	988.1	987.3	986.5	985.7
175°	988.6	988.4	988.2	988.6	989.4	990.2	991.0	991.8	991.0	990.2	989.4
177.5°	990.0	989.9	989.7	990.0	990.9	991.7	992.5	993.3	992.5	991.7	990.9
180°	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8

TEST NUMBER: P832143

CATALOG NUMBER: S123RDIP-S340D805U830-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1
2.5°	1013.6	1001.4	989.1	980.3	971.5	960.6	949.6	949.2	948.8	940.6	932.5
5°	953.5	932.3	911.0	890.2	869.4	848.5	827.7	823.0	818.3	811.2	804.1
7.5°	900.3	866.4	832.4	805.8	779.2	758.4	737.6	723.4	709.2	698.3	687.3
10°	843.2	801.1	759.0	726.8	694.6	672.1	649.6	633.2	616.9	609.2	601.5
12.5°	783.9	738.2	692.5	660.9	629.4	602.3	575.3	560.5	545.7	534.9	524.2
15°	729.4	680.2	631.1	597.6	564.1	538.8	513.5	498.6	483.8	473.1	462.4
17.5°	676.6	627.0	577.4	543.5	509.6	486.6	463.7	449.3	434.9	428.2	421.6
20°	628.5	578.5	528.5	496.5	464.5	442.0	419.4	411.7	404.0	397.8	391.5
22.5°	580.9	532.8	484.7	454.0	423.3	407.0	390.7	384.5	378.2	373.5	368.8
25°	540.9	493.1	445.2	418.4	391.5	378.9	366.2	362.1	358.0	353.3	348.6
27.5°	500.6	455.1	409.6	388.1	366.6	356.3	346.0	340.9	335.7	331.9	328.0
30°	464.9	422.9	380.8	363.0	345.2	336.2	327.1	321.6	316.0	312.3	308.7
32.5°	430.6	393.3	355.9	340.7	325.4	316.6	307.8	302.5	297.1	292.8	288.5
35°	398.8	366.4	334.0	320.1	306.1	297.3	288.5	283.1	277.8	273.5	269.2
37.5°	370.9	341.5	312.1	299.0	285.9	278.2	270.5	264.9	259.3	254.8	250.3
40°	344.7	318.8	292.8	280.1	267.5	259.1	250.7	245.8	240.8	236.8	232.7
42.5°	321.6	297.7	273.9	261.5	249.0	241.1	233.1	227.3	221.5	219.2	216.8
45°	297.1	276.0	255.0	243.0	231.0	222.6	214.2	209.3	204.4	202.2	200.1
47.5°	275.6	256.1	236.6	224.7	212.9	205.4	197.9	194.0	190.2	187.2	184.2
50°	254.6	235.7	216.8	205.4	194.0	187.6	181.2	176.4	171.7	169.6	167.4
52.5°	234.4	217.2	200.1	188.5	176.9	170.7	164.4	160.3	156.3	151.8	147.3
55°	211.7	196.6	181.6	171.3	161.0	154.6	148.1	143.4	138.7	133.9	129.2
57.5°	192.8	178.0	163.1	153.9	144.7	138.5	132.2	127.1	121.9	118.1	114.2
60°	172.2	159.3	146.4	137.4	128.4	122.4	116.3	111.4	106.5	104.5	102.6
62.5°	152.8	140.8	128.8	120.9	112.9	107.1	101.3	98.1	94.9	93.6	92.3
65°	133.1	122.8	112.5	105.2	97.9	92.9	88.0	86.5	85.0	83.9	82.9
67.5°	114.6	105.8	97.0	90.6	84.1	80.7	77.3	75.6	73.8	72.6	71.3
70°	97.9	90.2	82.4	76.8	71.3	68.0	64.8	63.3	61.8	59.5	57.1
72.5°	79.9	73.8	67.8	63.5	59.2	56.5	53.7	50.7	47.7	45.5	43.4
75°	66.1	60.1	54.1	50.0	45.9	42.7	39.5	38.4	37.4	36.7	36.1
77.5°	50.7	45.5	40.4	37.1	33.9	32.4	30.9	30.3	29.6	29.4	29.2
80°	36.5	32.2	27.9	26.2	24.5	24.0	23.6	23.2	22.8	22.5	22.3
82.5°	22.8	20.6	18.5	18.0	17.6	17.4	17.2	17.0	16.7	16.5	16.3
85°	13.3	12.5	11.6	11.4	11.2	10.9	10.7	10.7	10.7	10.7	10.7
87.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.4	5.2
90°	7.3	9.2	11.3	13.4	15.6	17.7	18.3	19.0	19.6	20.3	20.8
92.5°	13.0	13.3	14.7	16.2	17.7	19.2	20.3	21.5	22.6	23.7	24.4
95°	18.1	15.6	17.4	19.2	21.0	22.8	24.0	25.1	26.3	27.4	28.0
97.5°	63.5	57.0	48.6	40.3	31.9	23.6	24.9	26.2	27.5	28.8	29.6
100°	137.6	126.5	101.0	75.4	49.9	24.3	25.6	26.9	28.2	29.6	30.3
102.5°	181.7	168.5	140.0	111.5	83.0	54.5	49.1	43.7	38.3	32.9	30.4
105°	226.8	220.3	205.6	190.9	176.1	161.4	132.4	103.4	74.4	45.4	31.1
107.5°	274.9	276.8	279.3	281.7	284.2	286.6	261.4	236.2	211.0	185.8	162.4
110°	323.6	325.1	326.9	328.7	330.5	332.3	326.9	321.5	316.1	310.7	296.3

TEST NUMBER: P832143

CATALOG NUMBER: S123RDIP-S340D805U830-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	370.1	371.5	373.3	375.2	377.0	378.8	380.2	381.7	383.2	384.6	385.2
115°	415.8	417.1	418.5	420.0	421.5	423.0	424.6	426.2	427.9	429.5	430.7
117.5°	462.2	463.2	464.0	464.8	465.6	466.4	467.8	469.1	470.4	471.7	472.4
120°	505.5	506.5	507.0	507.5	508.0	508.4	509.8	511.1	512.4	513.7	514.3
122.5°	546.9	547.8	548.5	549.1	549.8	550.4	551.3	552.1	552.9	553.7	554.2
125°	585.9	586.9	587.5	588.2	588.8	589.5	589.8	590.2	590.5	590.8	591.1
127.5°	624.2	625.3	626.1	626.9	627.7	628.6	629.0	629.5	630.0	630.5	630.6
130°	659.6	660.6	661.2	661.9	662.5	663.2	663.8	664.5	665.2	665.8	666.0
132.5°	693.5	694.4	694.9	695.4	695.9	696.3	697.0	697.7	698.3	699.0	699.0
135°	726.8	727.6	728.3	728.9	729.6	730.2	730.7	731.2	731.7	732.2	732.2
137.5°	757.6	758.4	758.7	759.1	759.4	759.7	760.5	761.4	762.2	763.0	763.2
140°	785.8	786.5	787.0	787.5	788.0	788.5	789.1	789.8	790.4	791.1	791.2
142.5°	813.0	813.8	814.2	814.7	815.2	815.7	816.2	816.7	817.2	817.7	817.7
145°	838.7	839.5	839.8	840.1	840.4	840.8	841.1	841.4	841.8	842.1	842.2
147.5°	861.7	862.3	862.6	863.0	863.3	863.6	863.9	864.3	864.6	864.9	864.7
150°	882.5	882.9	883.3	883.6	883.9	884.2	884.6	884.9	885.2	885.6	885.5
152.5°	901.1	901.3	901.4	901.6	901.8	901.9	902.6	903.2	903.9	904.6	904.5
155°	917.6	917.5	917.7	917.8	918.0	918.1	919.0	919.8	920.6	921.4	921.3
157.5°	933.6	933.5	933.4	933.2	933.0	932.9	933.9	934.8	935.8	936.8	936.6
160°	946.2	946.1	945.9	945.7	945.6	945.4	946.4	947.4	948.4	949.3	949.3
162.5°	957.4	957.1	957.0	956.8	956.6	956.5	957.6	958.8	959.9	961.0	961.1
165°	967.0	966.7	966.5	966.4	966.2	966.0	967.4	968.7	970.0	971.3	971.4
167.5°	974.5	974.1	974.1	974.1	974.1	974.1	975.5	976.8	978.1	979.4	979.4
170°	981.1	980.8	980.8	980.8	980.8	980.8	982.1	983.4	984.7	986.0	986.0
172.5°	984.9	984.5	984.7	984.9	985.0	985.2	986.5	987.8	989.1	990.4	990.4
175°	988.6	988.2	988.4	988.6	988.7	988.9	990.0	991.2	992.3	993.5	993.4
177.5°	990.0	989.7	989.9	990.0	990.2	990.4	991.7	993.0	994.3	995.6	995.4
180°	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8

TEST NUMBER: P832143

CATALOG NUMBER: S123RDIP-S340D805U830-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1047.1	1047.1	1047.1	1047.1
2.5°	930.3	928.2	927.3	926.5
5°	797.5	790.8	789.3	787.8
7.5°	684.5	681.8	672.5	663.3
10°	592.9	584.3	580.4	576.6
12.5°	516.2	508.3	507.0	505.7
15°	456.8	451.2	449.3	447.3
17.5°	417.7	413.9	411.5	409.1
20°	388.7	386.0	384.2	382.5
22.5°	366.6	364.5	363.2	361.9
25°	345.4	342.2	341.1	340.0
27.5°	325.2	322.4	321.3	320.3
30°	306.3	304.0	302.5	300.9
32.5°	285.7	282.9	282.1	281.2
35°	267.5	265.7	264.9	264.0
37.5°	248.1	246.0	244.7	243.4
40°	231.6	230.5	229.9	229.3
42.5°	214.9	212.9	212.7	212.5
45°	198.1	196.2	195.8	195.3
47.5°	182.5	180.7	180.5	180.3
50°	165.1	162.7	161.0	159.3
52.5°	145.1	143.0	141.5	140.0
55°	126.9	124.5	123.2	121.9
57.5°	113.1	112.1	111.4	110.8
60°	102.0	101.3	100.9	100.5
62.5°	91.7	91.0	91.0	91.0
65°	82.2	81.6	80.9	80.3
67.5°	70.0	68.7	68.5	68.3
70°	55.2	53.2	53.0	52.8
72.5°	43.1	42.9	42.5	42.1
75°	35.6	35.2	35.2	35.2
77.5°	28.8	28.3	28.3	28.3
80°	22.1	21.9	22.1	22.3
82.5°	16.3	16.3	16.1	15.9
85°	10.5	10.3	10.3	10.3
87.5°	5.2	5.2	5.2	5.2
90°	21.1	21.5	21.8	22.1
92.5°	24.6	24.7	24.9	25.1
95°	28.0	28.0	28.0	28.0
97.5°	29.7	29.9	30.0	30.2
100°	30.5	30.6	30.8	30.9
102.5°	30.7	31.0	31.4	31.7
105°	31.4	31.8	32.1	32.4
107.5°	141.0	119.5	98.1	76.6
110°	272.9	249.5	226.1	202.6

TEST NUMBER: P832143

CATALOG NUMBER: S123RDIP-S340D805U830-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
112.5°	384.9	384.6	384.2	383.9
115°	431.3	432.0	432.6	433.3
117.5°	472.6	472.7	472.9	473.1
120°	514.3	514.3	514.3	514.3
122.5°	554.4	554.5	554.7	554.9
125°	591.5	591.8	592.1	592.4
127.5°	630.3	629.9	629.6	629.3
130°	665.6	665.3	665.0	664.7
132.5°	698.6	698.1	697.6	697.1
135°	731.7	731.2	730.7	730.2
137.5°	762.9	762.6	762.3	761.9
140°	790.9	790.6	790.3	789.9
142.5°	817.2	816.7	816.2	815.7
145°	842.2	842.2	842.2	842.2
147.5°	863.9	863.0	862.2	861.4
150°	885.0	884.5	884.0	883.5
152.5°	903.7	902.8	902.0	901.2
155°	920.4	919.4	918.4	917.4
157.5°	935.3	934.0	932.7	931.4
160°	948.1	947.0	945.8	944.7
162.5°	960.1	959.2	958.2	957.2
165°	970.2	969.1	967.9	966.8
167.5°	978.1	976.8	975.5	974.1
170°	984.7	983.4	982.1	980.8
172.5°	988.9	987.4	985.9	984.5
175°	992.1	990.8	989.5	988.1
177.5°	993.8	992.2	990.5	988.9
180°	991.8	991.8	991.8	991.8

TEST NUMBER: P832143

CATALOG NUMBER: S123RDIP-S340D805U830-4F0-1E-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	7.12	7.80	8.23	8.90	10.42	11.78	12.47	12.89	13.57	15.08
	3H	8.33	8.94	9.45	10.05	11.58	13.27	13.88	14.39	14.99	16.53
	4H	8.70	9.29	9.83	10.39	11.93	13.75	14.34	14.88	15.45	16.98
	6H	8.98	9.51	10.11	10.63	12.18	14.06	14.59	15.20	15.71	17.26
	8H	9.06	9.57	10.20	10.70	12.24	14.13	14.64	15.27	15.77	17.31
	12H	9.11	9.59	10.25	10.71	12.28	14.16	14.64	15.30	15.76	17.33
4H	2H	7.82	8.41	8.96	9.51	11.05	11.76	12.34	12.90	13.45	14.99
	3H	9.18	9.66	10.32	10.80	12.35	13.41	13.89	14.55	15.03	16.58
	4H	9.63	10.08	10.77	11.20	12.77	14.01	14.45	15.15	15.58	17.15
	6H	9.99	10.37	11.14	11.52	13.08	14.44	14.82	15.59	15.97	17.53
	8H	10.12	10.47	11.26	11.61	13.19	14.57	14.92	15.72	16.06	17.64
	12H	10.19	10.51	11.35	11.66	13.24	14.62	14.94	15.79	16.09	17.68
8H	4H	9.94	10.29	11.08	11.43	13.01	13.96	14.32	15.11	15.46	17.04
	6H	10.40	10.69	11.56	11.87	13.44	14.46	14.75	15.63	15.93	17.50
	8H	10.59	10.84	11.76	12.00	13.60	14.64	14.90	15.82	16.06	17.65
	12H	10.73	10.95	11.90	12.11	13.73	14.75	14.98	15.93	16.13	17.76
12H	4H	9.94	10.26	11.10	11.41	12.99	13.91	14.23	15.07	15.38	16.96
	6H	10.45	10.71	11.63	11.87	13.46	14.43	14.69	15.61	15.85	17.44
	8H	10.67	10.89	11.84	12.05	13.68	14.62	14.84	15.80	16.00	17.63

END OF REPORT