

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: P832055

Luminaire Tested: S123RDIP-S340D1025U935-4F0-1E-UDD-G4

Issue Date: 05/03/2024

Test Information

Test Method: LM-79-2019
Report Number: P832055
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2301-905-2, G3-1807-864-17)
Test Lab: INNOVATION CENTER
Issue Date: 05/03/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-S340D1025U935-4F0-1E-UDD-G4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, GRAZE OPTIC
UPLIGHT 1025 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: -

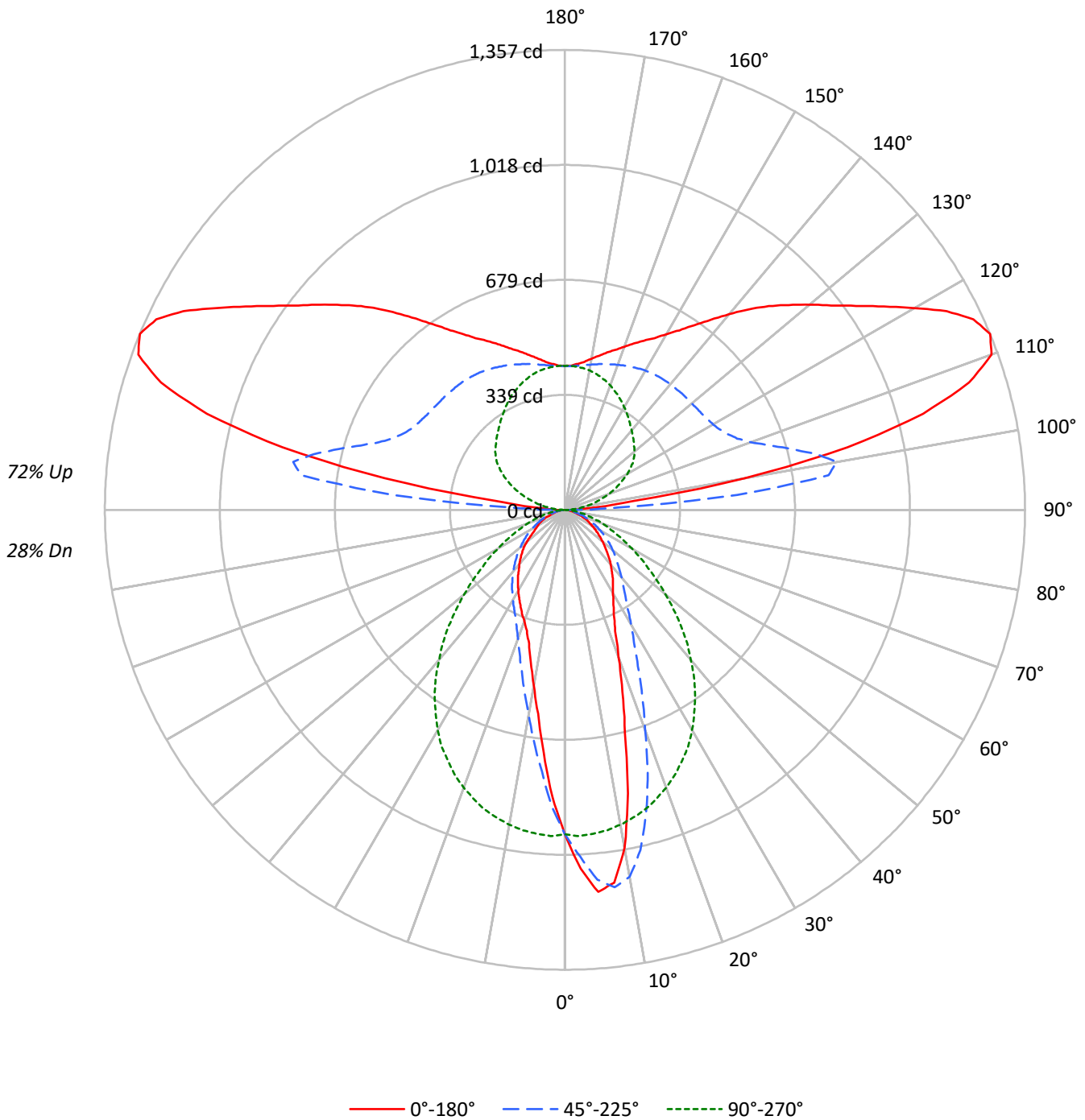
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4464.1 lumens
Efficiency: N/A
Efficacy: 116.6 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): 38.3
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

TEST NUMBER: P832055
CATALOG NUMBER: S123RDIP-S340D1025U935-4F0-1E-UDD-G4

Luminous Intensity Polar Plot





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CATALOG NUMBER: S123RDIP-S340D1025U935-4F0-1E-UDD-G4

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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28				
1	93	89	86	83	84	80	77	75	63	61	59	47	46	45	33	32	31	25				
2	85	79	73	68	76	71	66	62	56	53	50	42	40	38	29	28	27	22				
3	78	69	63	57	70	63	57	52	50	46	42	38	35	33	27	25	24	19				
4	72	62	54	49	64	56	49	45	44	40	37	34	31	29	24	22	21	17				
5	66	55	48	42	59	50	43	39	40	35	32	31	28	25	22	20	19	15				
6	61	50	42	37	54	45	38	34	36	31	28	28	25	22	20	18	17	13				
7	56	45	37	32	50	41	34	30	33	28	25	25	22	20	19	17	15	12				
8	52	41	34	29	47	37	31	26	30	25	22	23	20	18	17	15	14	11				
9	49	37	30	26	44	34	28	24	28	23	20	22	18	16	16	14	13	10				
10	46	34	27	23	41	31	25	21	25	21	18	20	17	15	15	13	12	9				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10296	10296	10296	10296	10296
5°	12225	11835	10361	8375	7775
10°	11076	12021	10309	6710	5757
15°	7626	10307	10200	5485	4553
20°	5306	7936	9995	4624	4002
25°	4043	6048	9697	4111	3689
30°	3519	4835	9324	3817	3417
35°	3231	4079	8796	3569	3169
40°	2948	3642	8106	3326	2942
45°	2662	3331	7360	3095	2716
50°	2416	3073	6482	2870	2436
55°	2186	2822	5637	2650	2091
60°	1959	2566	4898	2407	1976
65°	1808	2277	4215	2162	1867
70°	1470	1970	3679	1958	1517
75°	1289	1564	3115	1622	1339
80°	1165	1327	2554	1364	1265
85°	1062	1161	1939	1235	1161

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 80°
 Vertical Angle: 45°
 Luminance: 7767 cd/sqm



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CATALOG NUMBER: S123RDIP-S340D1025U935-4F0-1E-UDD-G4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	2.0
10°-20°	201.7	4.5
20°-30°	231.5	5.2
30°-40°	228.2	5.1
40°-50°	201.2	4.5
50°-60°	154.8	3.5
60°-70°	101.8	2.3
70°-80°	49.4	1.1
80°-90°	14.8	0.3
90°-100°	230.4	5.2
100°-110°	674.5	15.1
110°-120°	658.7	14.8
120°-130°	524.6	11.8
130°-140°	413.9	9.3
140°-150°	308.7	6.9
150°-160°	215.3	4.8
160°-170°	126.5	2.8
170°-180°	41.1	0.9
0°-30°	520.4	11.7
0°-40°	748.5	16.8
0°-60°	1104.5	24.7
0°-90°	1270.5	28.5
90°-120°	1563.5	35.0
90°-150°	2810.7	63.0
90°-180°	3194.0	71.5
0°-180°	4464.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	956	956	956	956	956	
5°	1131	1095	959	775	720	103
15°	684	925	915	492	409	193
25°	340	509	816	346	311	161
35°	246	310	669	272	241	153
45°	175	219	484	203	178	136
55°	116	150	300	141	111	104
65°	71	89	166	85	73	70
75°	31	38	75	39	32	33
85°	9	9	16	10	9	9
90°	25	22	2	22	25	14
95°	100	510	29	510	100	162
105°	1093	691	100	691	1093	1091
115°	1330	528	176	528	1330	1297
125°	1048	493	245	493	1048	949
135°	850	486	287	486	850	659
145°	664	480	327	480	664	422
155°	551	465	372	465	551	257
165°	480	445	406	445	480	137
175°	432	427	424	427	432	42
180°	425	425	425	425	425	



TEST NUMBER: P832055

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	956.5	956.5	956.5	956.5	956.5	956.5	956.5	956.5	956.5	956.5	956.5
2.5°	1060.0	1056.7	1053.4	1052.4	1051.4	1048.3	1045.1	1038.1	1031.0	1023.8	1016.5
5°	1131.4	1131.8	1132.2	1131.2	1130.2	1126.1	1122.0	1113.4	1104.7	1095.3	1085.9
7.5°	1109.5	1115.7	1122.0	1123.2	1124.4	1127.5	1130.6	1128.7	1126.7	1123.2	1119.6
10°	1013.4	1013.0	1012.6	1019.6	1026.7	1047.7	1068.7	1079.5	1090.2	1099.8	1109.5
12.5°	856.5	857.1	857.7	880.8	904.0	923.8	943.6	971.0	998.5	1028.1	1057.7
15°	684.3	693.9	703.6	724.1	744.7	774.5	804.3	841.2	878.1	924.9	971.8
17.5°	562.0	566.1	570.2	590.0	609.8	638.1	666.3	708.1	749.8	810.2	870.6
20°	463.2	466.9	470.6	484.9	499.2	526.3	553.4	593.2	633.0	692.8	752.6
22.5°	386.7	393.9	401.2	410.8	420.4	440.0	459.6	500.2	540.8	595.3	649.8
25°	340.4	343.7	347.1	355.3	363.5	382.4	401.2	428.1	454.9	509.2	563.6
27.5°	309.0	310.0	311.0	317.1	323.1	335.3	347.5	372.4	397.3	442.0	486.7
30°	283.1	284.9	286.7	291.4	296.1	304.9	313.7	331.4	349.0	389.0	429.0
32.5°	263.1	264.1	265.1	269.0	273.0	279.4	285.9	299.8	313.7	344.3	374.9
35°	245.9	246.1	246.3	249.2	252.2	258.4	264.7	276.3	287.9	310.4	333.0
37.5°	226.3	227.7	229.0	231.2	233.3	238.8	244.3	253.7	263.1	281.8	300.4
40°	209.8	211.0	212.2	214.7	217.3	221.6	225.9	234.5	243.1	259.2	275.3
42.5°	193.3	194.1	194.9	197.5	200.0	205.3	210.6	217.5	224.3	237.7	251.0
45°	174.9	176.9	178.8	181.6	184.3	188.8	193.3	200.4	207.5	218.8	230.2
47.5°	159.6	160.6	161.6	163.9	166.3	171.8	177.3	183.5	189.8	200.4	211.0
50°	144.3	144.7	145.1	147.3	149.4	154.3	159.2	166.5	173.7	183.5	193.3
52.5°	129.8	130.8	131.8	133.9	136.1	139.4	142.8	150.2	157.7	167.3	176.9
55°	116.5	117.1	117.7	119.2	120.8	124.7	128.6	135.1	141.6	150.4	159.2
57.5°	103.9	104.7	105.5	106.7	107.8	111.4	114.9	120.6	126.3	135.1	143.9
60°	91.0	92.0	92.9	94.3	95.7	98.4	101.2	106.3	111.4	119.2	127.1
62.5°	81.6	81.8	82.0	83.1	84.3	86.3	88.2	92.4	96.5	104.3	112.2
65°	71.0	71.6	72.2	72.7	73.3	74.9	76.5	80.0	83.5	89.4	95.3
67.5°	60.0	60.6	61.2	62.2	63.1	64.5	65.9	68.2	70.6	76.1	81.6
70°	46.7	46.7	46.7	48.2	49.8	52.2	54.5	56.3	58.0	62.6	67.1
72.5°	38.0	38.2	38.4	38.6	38.8	40.2	41.6	44.5	47.5	50.2	52.9
75°	31.0	31.2	31.4	31.6	31.8	32.2	32.6	33.5	34.5	37.6	40.8
77.5°	24.7	24.9	25.1	25.3	25.5	25.9	26.3	26.7	27.1	28.2	29.4
80°	18.8	19.0	19.2	19.4	19.6	19.8	20.0	20.4	20.8	21.4	22.0
82.5°	13.7	13.7	13.7	13.7	13.7	14.1	14.5	14.5	14.5	14.9	15.3
85°	8.6	8.6	8.6	8.8	9.0	9.0	9.0	9.2	9.4	9.4	9.4
87.5°	3.9	3.7	3.5	3.7	3.9	3.9	3.9	4.1	4.3	4.3	4.3
90°	24.9	25.8	24.9	24.1	24.9	23.2	22.3	21.5	20.6	21.5	18.9
92.5°	45.5	47.3	46.4	49.8	51.6	57.6	66.2	85.1	119.5	159.9	177.0
95°	99.7	103.1	109.1	116.9	133.2	164.2	209.7	309.4	413.4	509.6	453.8
97.5°	204.5	214.0	234.6	267.3	324.9	422.8	536.3	710.7	810.4	783.8	585.3
100°	538.9	538.0	571.5	634.3	721.1	843.1	943.7	1013.3	983.2	813.9	550.0
102.5°	853.4	878.3	905.0	951.4	1014.1	1080.3	1128.4	1113.8	991.8	758.0	498.5
105°	1093.2	1097.5	1125.0	1157.7	1197.2	1219.5	1203.2	1117.3	937.6	691.0	458.1
107.5°	1249.6	1259.1	1270.2	1285.7	1290.9	1267.7	1200.6	1065.7	860.3	631.7	428.9
110°	1339.0	1340.7	1342.4	1335.6	1311.5	1251.3	1143.0	984.9	788.1	582.7	413.4



TEST NUMBER: P832055

CATALOG NUMBER: S123RDIP-S340D1025U935-4F0-1E-UDD-G4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1357.0	1356.2	1347.6	1322.7	1273.7	1192.0	1067.4	905.0	725.4	550.0	404.8
115°	1329.5	1325.2	1308.1	1270.2	1205.8	1112.1	985.8	836.2	677.2	528.5	403.9
117.5°	1269.4	1263.4	1237.6	1195.5	1128.4	1031.3	915.3	782.9	645.4	513.9	404.8
120°	1190.3	1185.2	1164.5	1116.4	1048.5	961.7	858.6	742.5	621.4	504.5	408.2
122.5°	1116.4	1109.5	1086.3	1044.2	985.8	906.7	813.0	710.7	601.6	498.5	414.2
125°	1048.5	1042.5	1021.0	983.2	928.2	859.4	776.9	683.2	585.3	493.3	420.3
127.5°	990.1	984.9	965.1	932.5	882.6	819.0	743.4	658.3	569.8	490.7	427.1
130°	941.9	935.1	917.0	886.1	840.5	782.1	712.5	635.1	557.8	488.2	434.0
132.5°	894.7	890.4	874.9	844.0	801.8	746.8	683.2	613.6	546.6	487.3	439.2
135°	850.0	844.0	828.5	802.7	760.6	711.6	655.7	594.7	537.1	486.4	444.3
137.5°	802.7	797.6	784.7	758.0	721.9	678.1	628.2	576.7	528.5	484.7	447.8
140°	752.9	753.7	740.0	715.9	683.2	646.3	605.0	561.2	520.8	483.9	451.2
142.5°	706.5	707.3	695.3	674.7	648.0	617.1	582.7	546.6	513.9	482.1	453.8
145°	664.3	662.6	655.7	637.7	616.2	591.3	563.8	535.4	507.9	480.4	454.6
147.5°	628.2	627.4	620.5	607.6	590.4	572.4	549.2	526.0	501.9	477.8	454.6
150°	597.3	597.3	592.1	582.7	569.8	553.5	535.4	515.7	495.9	474.4	454.6
152.5°	571.5	571.5	568.9	560.3	550.9	538.0	522.5	506.2	489.0	470.1	452.1
155°	550.9	550.0	548.3	541.4	533.7	523.4	510.5	496.8	482.1	465.0	450.3
157.5°	531.1	531.1	529.4	524.3	517.4	508.8	498.5	486.4	474.4	460.7	447.8
160°	512.2	513.1	513.1	507.9	501.9	495.9	487.3	477.8	466.7	455.5	446.0
162.5°	495.0	495.9	495.9	491.6	488.2	483.0	475.3	467.5	458.9	450.3	442.6
165°	480.4	480.4	481.3	477.8	474.4	470.1	464.1	458.9	452.1	445.2	439.2
167.5°	465.8	465.8	466.7	464.1	462.4	458.9	455.5	451.2	445.2	440.0	435.7
170°	452.9	452.9	453.8	452.1	451.2	449.5	446.0	443.5	439.2	434.9	432.3
172.5°	440.9	441.7	443.5	441.7	441.7	440.9	438.3	436.6	433.2	430.6	429.7
175°	432.3	433.2	434.0	433.2	433.2	433.2	431.4	430.6	428.9	427.1	427.1
177.5°	426.3	426.3	428.0	427.1	428.0	428.0	427.1	426.3	425.4	424.6	425.4
180°	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6



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CATALOG NUMBER: S123RDIP-S340D1025U935-4F0-1E-UDD-G4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	956.5	956.5	956.5	956.5	956.5	956.5	956.5	956.5	956.5	956.5	956.5
2.5°	1015.5	1014.5	1005.1	995.7	986.5	977.3	970.4	963.6	952.0	940.4	933.2
5°	1078.5	1071.0	1056.1	1041.2	1018.9	996.5	977.7	958.9	934.9	911.0	891.0
7.5°	1113.6	1107.5	1089.5	1071.4	1041.8	1012.2	982.8	953.4	918.1	882.8	852.6
10°	1114.6	1119.6	1104.7	1089.8	1056.5	1023.2	983.2	943.2	895.7	848.3	809.2
12.5°	1079.6	1101.6	1098.5	1095.3	1061.4	1027.5	978.9	930.2	872.0	813.8	764.9
15°	1014.4	1056.9	1069.5	1082.0	1054.0	1025.9	970.6	915.3	846.9	778.5	722.4
17.5°	930.2	989.8	1023.0	1056.1	1035.7	1015.3	954.7	894.2	817.1	740.0	679.0
20°	830.6	908.7	960.6	1012.6	1005.1	997.7	935.1	872.6	789.4	706.3	640.2
22.5°	732.2	814.5	886.3	958.1	965.7	973.4	910.2	847.1	756.1	665.1	597.9
25°	647.3	731.0	816.5	902.0	919.3	936.5	876.5	816.5	722.2	627.9	561.0
27.5°	566.3	645.9	740.0	834.1	865.5	896.9	842.0	787.1	688.8	590.6	523.9
30°	500.2	571.4	667.5	763.6	807.3	851.0	800.6	750.2	652.8	555.3	490.0
32.5°	438.6	502.4	598.8	695.3	746.1	796.9	753.4	709.8	616.1	522.4	457.9
35°	390.0	447.1	537.1	627.1	683.9	740.8	705.1	669.4	577.9	486.3	425.3
37.5°	348.2	396.1	480.6	565.1	625.5	685.9	656.1	626.3	540.2	454.1	396.5
40°	313.7	352.2	430.8	509.4	568.6	627.9	602.4	576.9	499.8	422.8	368.8
42.5°	284.1	317.3	387.9	458.4	512.8	567.1	550.2	533.4	463.5	393.7	343.7
45°	258.0	285.9	348.1	410.2	460.2	510.2	496.9	483.5	423.3	363.2	317.3
47.5°	234.9	258.8	314.3	369.8	414.7	459.6	447.3	434.9	385.1	335.3	293.5
50°	213.7	234.1	280.4	326.7	367.1	407.5	397.3	387.1	345.9	304.7	268.6
52.5°	193.7	210.6	252.2	293.7	326.3	358.8	351.0	343.2	311.4	279.6	246.9
55°	174.7	190.2	225.3	260.4	288.2	316.1	308.2	300.4	275.7	251.0	222.2
57.5°	157.5	171.0	199.4	227.9	250.0	272.2	268.4	264.7	244.1	223.5	199.8
60°	139.2	151.4	175.9	200.4	218.2	236.1	231.8	227.5	212.8	198.0	177.7
62.5°	122.9	133.7	153.3	172.9	187.5	202.0	198.8	195.7	184.5	173.3	156.5
65°	105.9	116.5	132.4	148.2	159.6	171.0	168.2	165.5	157.1	148.6	135.1
67.5°	90.4	99.2	112.9	126.7	134.3	142.0	140.4	138.8	132.4	125.9	115.3
70°	74.7	82.4	93.7	105.1	110.4	115.7	116.3	116.9	111.0	105.1	97.3
72.5°	59.0	65.1	75.7	86.3	90.4	94.5	94.3	94.1	90.6	87.1	80.0
75°	45.3	49.8	58.0	66.3	69.8	73.3	74.1	74.9	71.6	68.2	64.3
77.5°	32.6	35.7	42.0	48.2	52.2	56.1	56.5	56.9	55.3	53.7	50.0
80°	22.9	23.9	27.8	31.8	35.9	40.0	40.6	41.2	39.6	38.0	35.7
82.5°	15.9	16.5	17.8	19.2	22.5	25.9	26.7	27.5	26.7	25.9	23.3
85°	9.6	9.8	10.4	11.0	12.5	14.1	14.9	15.7	15.3	14.9	13.5
87.5°	4.3	4.3	4.5	4.7	5.1	5.5	6.5	7.5	6.9	6.3	5.7
90°	16.3	13.8	11.2	9.5	7.7	5.2	3.4	1.7	3.4	5.2	7.7
92.5°	132.4	86.8	59.3	43.8	35.2	27.5	18.9	12.9	18.9	27.5	35.2
95°	312.8	184.8	111.7	78.2	55.9	41.3	31.8	29.2	31.8	41.3	55.9
97.5°	348.1	199.4	127.2	90.2	67.9	55.0	47.3	46.4	47.3	55.0	67.9
100°	324.0	196.8	136.6	103.1	82.5	70.5	64.5	63.6	64.5	70.5	82.5
102.5°	303.4	200.2	147.8	117.7	99.7	88.5	83.4	81.6	83.4	88.5	99.7
105°	295.6	207.1	160.7	134.1	117.7	107.4	102.3	99.7	102.3	107.4	117.7
107.5°	293.9	218.3	177.0	152.1	136.6	126.3	121.2	118.6	121.2	126.3	136.6
110°	298.2	232.9	194.2	170.2	155.6	146.1	141.8	139.2	141.8	146.1	155.6



TEST NUMBER: P832055

CATALOG NUMBER: S123RDIP-S340D1025U935-4F0-1E-UDD-G4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	306.8	247.5	212.3	189.1	174.5	165.0	160.7	158.1	160.7	165.0	174.5
115°	316.3	263.8	231.2	208.0	193.4	184.8	179.6	176.2	179.6	184.8	193.4
117.5°	328.3	281.0	248.4	226.9	210.6	202.8	198.5	194.2	198.5	202.8	210.6
120°	342.1	297.4	266.4	244.9	228.6	220.0	215.7	213.1	215.7	220.0	228.6
122.5°	354.9	314.6	284.5	261.3	245.8	236.3	232.0	229.5	232.0	236.3	245.8
125°	368.7	330.9	300.8	277.6	261.3	251.8	246.7	244.9	246.7	251.8	261.3
127.5°	379.9	345.5	316.3	293.1	275.0	265.6	259.5	257.0	259.5	265.6	275.0
130°	391.0	358.4	330.0	306.8	288.8	278.5	270.7	268.1	270.7	278.5	288.8
132.5°	401.4	369.6	342.1	319.7	301.7	288.8	280.2	276.7	280.2	288.8	301.7
135°	409.9	380.7	354.1	330.9	312.8	299.9	290.5	287.0	290.5	299.9	312.8
137.5°	416.8	388.5	362.7	341.2	323.1	309.4	299.9	296.5	299.9	309.4	323.1
140°	422.0	396.2	371.3	349.8	332.6	318.8	310.3	306.0	310.3	318.8	332.6
142.5°	427.1	402.2	378.1	358.4	341.2	329.2	319.7	316.3	319.7	329.2	341.2
145°	430.6	407.4	385.0	365.3	350.6	337.8	330.0	327.4	330.0	337.8	350.6
147.5°	433.2	411.7	391.0	373.9	359.2	348.1	340.3	338.6	340.3	348.1	359.2
150°	434.0	416.0	396.2	380.7	368.7	357.5	350.6	349.8	350.6	357.5	368.7
152.5°	435.7	418.5	402.2	387.6	377.3	367.8	361.0	361.0	361.0	367.8	377.3
155°	435.7	422.0	407.4	395.3	385.9	377.3	372.1	372.1	372.1	377.3	385.9
157.5°	436.6	423.7	411.7	402.2	393.6	385.9	381.6	380.7	381.6	385.9	393.6
160°	436.6	426.3	416.0	407.4	401.4	394.5	391.0	391.0	391.0	394.5	401.4
162.5°	435.7	427.1	418.5	411.7	406.5	401.4	398.8	398.8	398.8	401.4	406.5
165°	434.0	428.0	421.1	415.1	411.7	407.4	405.7	406.5	405.7	407.4	411.7
167.5°	433.2	428.0	422.8	418.5	416.0	412.5	411.7	412.5	411.7	412.5	416.0
170°	430.6	427.1	422.8	421.1	419.4	416.8	416.0	417.7	416.0	416.8	419.4
172.5°	429.7	427.1	423.7	422.8	422.0	420.3	420.3	421.1	420.3	420.3	422.0
175°	428.0	426.3	424.6	423.7	423.7	422.0	422.8	423.7	422.8	422.0	423.7
177.5°	427.1	425.4	424.6	424.6	424.6	423.7	424.6	425.4	424.6	423.7	424.6
180°	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6



TEST NUMBER: P832055

CATALOG NUMBER: S123RDIP-S340D1025U935-4F0-1E-UDD-G4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	956.5	956.5	956.5	956.5	956.5	956.5	956.5	956.5	956.5	956.5	956.5
2.5°	925.9	914.7	903.6	895.5	887.5	877.5	867.5	867.1	866.7	859.2	851.8
5°	871.0	851.6	832.2	813.2	794.1	775.1	756.1	751.8	747.5	741.0	734.5
7.5°	822.4	791.4	760.4	736.1	711.8	692.8	673.8	660.8	647.9	637.9	627.9
10°	770.2	731.8	693.4	663.9	634.5	613.9	593.4	578.5	563.6	556.5	549.4
12.5°	716.1	674.3	632.6	603.7	574.9	550.2	525.5	512.0	498.5	488.6	478.8
15°	666.3	621.4	576.5	545.9	515.3	492.2	469.0	455.5	442.0	432.2	422.4
17.5°	618.1	572.8	527.5	496.5	465.5	444.5	423.5	410.4	397.3	391.2	385.1
20°	574.1	528.5	482.8	453.5	424.3	403.7	383.2	376.1	369.0	363.3	357.7
22.5°	530.6	486.7	442.8	414.7	386.7	371.8	356.9	351.2	345.5	341.2	336.9
25°	494.1	450.4	406.7	382.2	357.7	346.1	334.5	330.8	327.1	322.8	318.4
27.5°	457.3	415.7	374.1	354.5	334.9	325.5	316.1	311.4	306.7	303.1	299.6
30°	424.7	386.3	347.9	331.6	315.3	307.1	298.8	293.7	288.6	285.3	282.0
32.5°	393.3	359.2	325.1	311.2	297.3	289.2	281.2	276.3	271.4	267.5	263.5
35°	364.3	334.7	305.1	292.4	279.6	271.6	263.5	258.6	253.7	249.8	245.9
37.5°	338.8	312.0	285.1	273.1	261.2	254.1	247.1	242.0	236.9	232.8	228.6
40°	314.9	291.2	267.5	255.9	244.3	236.7	229.0	224.5	220.0	216.3	212.6
42.5°	293.7	272.0	250.2	238.8	227.5	220.2	212.9	207.7	202.4	200.2	198.0
45°	271.4	252.2	232.9	222.0	211.0	203.3	195.7	191.2	186.7	184.7	182.8
47.5°	251.8	233.9	216.1	205.3	194.5	187.7	180.8	177.3	173.7	171.0	168.2
50°	232.6	215.3	198.0	187.7	177.3	171.4	165.5	161.2	156.9	154.9	152.9
52.5°	214.1	198.4	182.8	172.2	161.6	155.9	150.2	146.5	142.8	138.6	134.5
55°	193.3	179.6	165.9	156.5	147.1	141.2	135.3	131.0	126.7	122.4	118.0
57.5°	176.1	162.6	149.0	140.6	132.2	126.5	120.8	116.1	111.4	107.8	104.3
60°	157.3	145.5	133.7	125.5	117.3	111.8	106.3	101.8	97.3	95.5	93.7
62.5°	139.6	128.6	117.7	110.4	103.1	97.8	92.6	89.6	86.7	85.5	84.3
65°	121.6	112.2	102.7	96.1	89.4	84.9	80.4	79.0	77.6	76.7	75.7
67.5°	104.7	96.7	88.6	82.7	76.9	73.7	70.6	69.0	67.5	66.3	65.1
70°	89.4	82.4	75.3	70.2	65.1	62.2	59.2	57.8	56.5	54.3	52.2
72.5°	72.9	67.5	62.0	58.0	54.1	51.6	49.0	46.3	43.5	41.6	39.6
75°	60.4	54.9	49.4	45.7	42.0	39.0	36.1	35.1	34.1	33.5	32.9
77.5°	46.3	41.6	36.9	33.9	31.0	29.6	28.2	27.6	27.1	26.9	26.7
80°	33.3	29.4	25.5	23.9	22.4	22.0	21.6	21.2	20.8	20.6	20.4
82.5°	20.8	18.8	16.9	16.5	16.1	15.9	15.7	15.5	15.3	15.1	14.9
85°	12.2	11.4	10.6	10.4	10.2	10.0	9.8	9.8	9.8	9.8	9.8
87.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	4.9	4.7
90°	9.5	11.2	13.8	16.3	18.9	21.5	20.6	21.5	22.3	23.2	24.9
92.5°	43.8	59.3	86.8	132.4	177.0	159.9	119.5	85.1	66.2	57.6	51.6
95°	78.2	111.7	184.8	312.8	453.8	509.6	413.4	309.4	209.7	164.2	133.2
97.5°	90.2	127.2	199.4	348.1	585.3	783.8	810.4	710.7	536.3	422.8	324.9
100°	103.1	136.6	196.8	324.0	550.0	813.9	983.2	1013.3	943.7	843.1	721.1
102.5°	117.7	147.8	200.2	303.4	498.5	758.0	991.8	1113.8	1128.4	1080.3	1014.1
105°	134.1	160.7	207.1	295.6	458.1	691.0	937.6	1117.3	1203.2	1219.5	1197.2
107.5°	152.1	177.0	218.3	293.9	428.9	631.7	860.3	1065.7	1200.6	1267.7	1290.9
110°	170.2	194.2	232.9	298.2	413.4	582.7	788.1	984.9	1143.0	1251.3	1311.5



TEST NUMBER: P832055

CATALOG NUMBER: S123RDIP-S340D1025U935-4F0-1E-UDD-G4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	189.1	212.3	247.5	306.8	404.8	550.0	725.4	905.0	1067.4	1192.0	1273.7
115°	208.0	231.2	263.8	316.3	403.9	528.5	677.2	836.2	985.8	1112.1	1205.8
117.5°	226.9	248.4	281.0	328.3	404.8	513.9	645.4	782.9	915.3	1031.3	1128.4
120°	244.9	266.4	297.4	342.1	408.2	504.5	621.4	742.5	858.6	961.7	1048.5
122.5°	261.3	284.5	314.6	354.9	414.2	498.5	601.6	710.7	813.0	906.7	985.8
125°	277.6	300.8	330.9	368.7	420.3	493.3	585.3	683.2	776.9	859.4	928.2
127.5°	293.1	316.3	345.5	379.9	427.1	490.7	569.8	658.3	743.4	819.0	882.6
130°	306.8	330.0	358.4	391.0	434.0	488.2	557.8	635.1	712.5	782.1	840.5
132.5°	319.7	342.1	369.6	401.4	439.2	487.3	546.6	613.6	683.2	746.8	801.8
135°	330.9	354.1	380.7	409.9	444.3	486.4	537.1	594.7	655.7	711.6	760.6
137.5°	341.2	362.7	388.5	416.8	447.8	484.7	528.5	576.7	628.2	678.1	721.9
140°	349.8	371.3	396.2	422.0	451.2	483.9	520.8	561.2	605.0	646.3	683.2
142.5°	358.4	378.1	402.2	427.1	453.8	482.1	513.9	546.6	582.7	617.1	648.0
145°	365.3	385.0	407.4	430.6	454.6	480.4	507.9	535.4	563.8	591.3	616.2
147.5°	373.9	391.0	411.7	433.2	454.6	477.8	501.9	526.0	549.2	572.4	590.4
150°	380.7	396.2	416.0	434.0	454.6	474.4	495.9	515.7	535.4	553.5	569.8
152.5°	387.6	402.2	418.5	435.7	452.1	470.1	489.0	506.2	522.5	538.0	550.9
155°	395.3	407.4	422.0	435.7	450.3	465.0	482.1	496.8	510.5	523.4	533.7
157.5°	402.2	411.7	423.7	436.6	447.8	460.7	474.4	486.4	498.5	508.8	517.4
160°	407.4	416.0	426.3	436.6	446.0	455.5	466.7	477.8	487.3	495.9	501.9
162.5°	411.7	418.5	427.1	435.7	442.6	450.3	458.9	467.5	475.3	483.0	488.2
165°	415.1	421.1	428.0	434.0	439.2	445.2	452.1	458.9	464.1	470.1	474.4
167.5°	418.5	422.8	428.0	433.2	435.7	440.0	445.2	451.2	455.5	458.9	462.4
170°	421.1	422.8	427.1	430.6	432.3	434.9	439.2	443.5	446.0	449.5	451.2
172.5°	422.8	423.7	427.1	429.7	429.7	430.6	433.2	436.6	438.3	440.9	441.7
175°	423.7	424.6	426.3	428.0	427.1	427.1	428.9	430.6	431.4	433.2	433.2
177.5°	424.6	424.6	425.4	427.1	425.4	424.6	425.4	426.3	427.1	428.0	428.0
180°	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6



TEST NUMBER: P832055

CATALOG NUMBER: S123RDIP-S340D1025U935-4F0-1E-UDD-G4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	956.5	956.5	956.5	956.5
2.5°	849.8	847.9	847.1	846.3
5°	728.5	722.4	721.0	719.6
7.5°	625.3	622.8	614.3	605.9
10°	541.6	533.7	530.2	526.7
12.5°	471.6	464.3	463.2	462.0
15°	417.3	412.2	410.4	408.6
17.5°	381.6	378.1	375.9	373.7
20°	355.1	352.6	351.0	349.4
22.5°	334.9	333.0	331.8	330.6
25°	315.5	312.6	311.6	310.6
27.5°	297.1	294.5	293.5	292.6
30°	279.8	277.7	276.3	274.9
32.5°	261.0	258.4	257.7	256.9
35°	244.3	242.8	242.0	241.2
37.5°	226.7	224.7	223.5	222.4
40°	211.6	210.6	210.0	209.4
42.5°	196.3	194.5	194.3	194.1
45°	181.0	179.2	178.8	178.4
47.5°	166.7	165.1	164.9	164.7
50°	150.8	148.6	147.1	145.5
52.5°	132.6	130.6	129.2	127.8
55°	115.9	113.7	112.6	111.4
57.5°	103.3	102.4	101.8	101.2
60°	93.1	92.6	92.2	91.8
62.5°	83.7	83.1	83.1	83.1
65°	75.1	74.5	73.9	73.3
67.5°	63.9	62.7	62.6	62.4
70°	50.4	48.6	48.4	48.2
72.5°	39.4	39.2	38.8	38.4
75°	32.6	32.2	32.2	32.2
77.5°	26.3	25.9	25.9	25.9
80°	20.2	20.0	20.2	20.4
82.5°	14.9	14.9	14.7	14.5
85°	9.6	9.4	9.4	9.4
87.5°	4.7	4.7	4.7	4.7
90°	24.1	24.9	25.8	24.9
92.5°	49.8	46.4	47.3	45.5
95°	116.9	109.1	103.1	99.7
97.5°	267.3	234.6	214.0	204.5
100°	634.3	571.5	538.0	538.9
102.5°	951.4	905.0	878.3	853.4
105°	1157.7	1125.0	1097.5	1093.2
107.5°	1285.7	1270.2	1259.1	1249.6
110°	1335.6	1342.4	1340.7	1339.0



TEST NUMBER: P832055

CATALOG NUMBER: S123RDIP-S340D1025U935-4F0-1E-UDD-G4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
112.5°	<i>1322.7</i>	<i>1347.6</i>	<i>1356.2</i>	<i>1357.0</i>
115°	1270.2	1308.1	1325.2	1329.5
117.5°	1195.5	1237.6	1263.4	1269.4
120°	1116.4	1164.5	1185.2	1190.3
122.5°	1044.2	1086.3	1109.5	1116.4
125°	983.2	1021.0	1042.5	1048.5
127.5°	932.5	965.1	984.9	990.1
130°	886.1	917.0	935.1	941.9
132.5°	844.0	874.9	890.4	894.7
135°	802.7	828.5	844.0	850.0
137.5°	758.0	784.7	797.6	802.7
140°	715.9	740.0	753.7	752.9
142.5°	674.7	695.3	707.3	706.5
145°	637.7	655.7	662.6	664.3
147.5°	607.6	620.5	627.4	628.2
150°	582.7	592.1	597.3	597.3
152.5°	560.3	568.9	571.5	571.5
155°	541.4	548.3	550.0	550.9
157.5°	524.3	529.4	531.1	531.1
160°	507.9	513.1	513.1	512.2
162.5°	491.6	495.9	495.9	495.0
165°	477.8	481.3	480.4	480.4
167.5°	464.1	466.7	465.8	465.8
170°	452.1	453.8	452.9	452.9
172.5°	441.7	443.5	441.7	440.9
175°	433.2	434.0	433.2	432.3
177.5°	427.1	428.0	426.3	426.3
180°	424.6	424.6	424.6	424.6



TEST NUMBER: P832055

CATALOG NUMBER: S123RDIP-S340D1025U935-4F0-1E-UDD-G4

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	6.38	7.05	7.51	8.17	9.72	11.05	11.72	12.18	12.83	14.39
	3H	7.59	8.19	8.73	9.32	10.88	12.54	13.13	13.67	14.26	15.83
	4H	7.97	8.54	9.11	9.66	11.23	13.02	13.59	14.17	14.71	16.28
	6H	8.24	8.76	9.40	9.89	11.47	13.32	13.84	14.48	14.97	16.56
	8H	8.32	8.82	9.48	9.96	11.54	13.40	13.89	14.55	15.04	16.61
	12H	8.37	8.84	9.53	9.98	11.58	13.42	13.89	14.58	15.03	16.63
4H	2H	7.09	7.65	8.24	8.78	10.35	11.02	11.59	12.18	12.72	14.29
	3H	8.44	8.91	9.60	10.07	11.65	12.67	13.14	13.83	14.29	15.88
	4H	8.89	9.33	10.05	10.47	12.07	13.27	13.70	14.43	14.84	16.45
	6H	9.25	9.62	10.42	10.79	12.38	13.70	14.07	14.87	15.23	16.83
	8H	9.37	9.72	10.54	10.87	12.49	13.83	14.17	14.99	15.33	16.94
	12H	9.44	9.76	10.62	10.92	12.54	13.88	14.20	15.06	15.36	16.98
8H	4H	9.20	9.54	10.36	10.70	12.31	13.23	13.57	14.39	14.73	16.34
	6H	9.65	9.94	10.84	11.14	12.74	13.72	14.00	14.90	15.20	16.81
	8H	9.85	10.09	11.04	11.27	12.90	13.90	14.15	15.09	15.33	16.95
	12H	9.98	10.20	11.18	11.37	13.03	14.01	14.23	15.20	15.40	17.06
12H	4H	9.20	9.51	10.38	10.68	12.29	13.17	13.48	14.35	14.65	16.26
	6H	9.71	9.96	10.90	11.14	12.76	13.69	13.94	14.88	15.11	16.74
	8H	9.92	10.14	11.12	11.31	12.97	13.88	14.09	15.07	15.27	16.93