

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P243263

Luminaire Tested: S122RDRP-H485D840-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P243263  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-68)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122RDRP-H485D840-X4F0-XX-UDD-A-W  
Description: DEFINE 2 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: (184) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

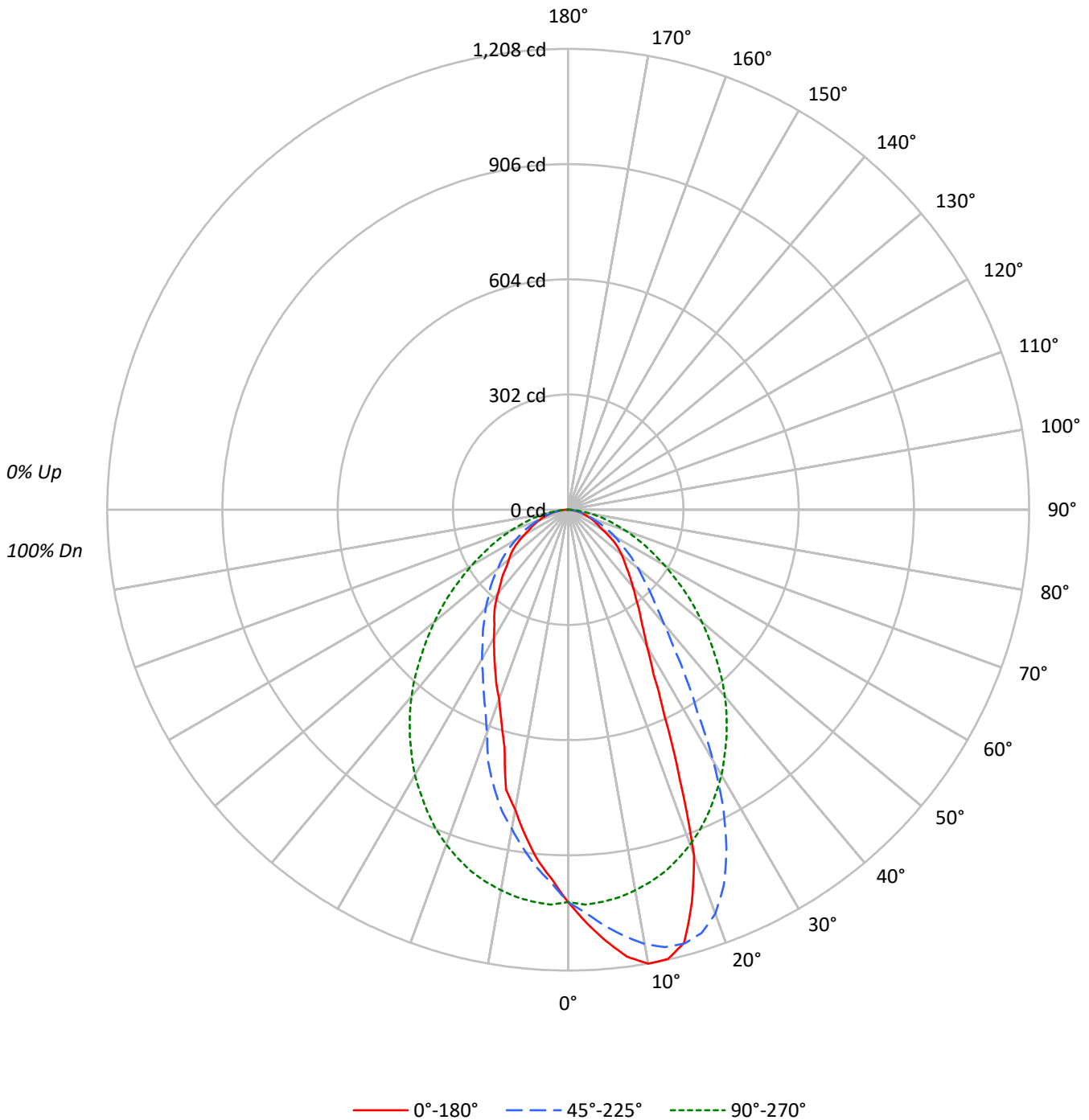
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1733.8 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Spacing Criteria (0/90/45): 0.81 / 1.17 / 0.99  
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 17.2  
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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89					87				
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78					76				
3	94	85	78	72	92	84	77	72	81	75	70	78	73	69	76	72	68					66				
4	87	77	69	63	85	76	68	63	73	67	62	71	65	61	69	64	60					58				
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54					52				
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49					47				
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44					42				
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40					38				
9	62	50	43	38	61	50	42	37	48	42	37	47	41	37	46	41	37					35				
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34					33				

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

	0°	45°	90°	135°	180°
0°	19596	19596	19596	19596	19596
5°	21692	20933	19728	18004	17612
10°	23374	22359	19593	16440	15444
15°	23169	23214	19365	14831	12694
20°	19542	22846	18936	12596	10713
25°	12566	20618	18352	11023	9537
30°	9077	16718	17675	9928	8545
35°	7562	12517	16821	9064	7860
40°	6562	9702	15886	8362	7114
45°	5859	8124	14700	7780	6511
50°	5408	7073	13536	7142	5986
55°	4852	6104	12364	6662	5702
60°	3874	5375	11131	6053	5131
65°	3552	4566	9997	5553	4732
70°	3264	3770	8833	4929	4500
75°	2973	3371	7727	4681	4261
80°	2589	2951	6428	4289	3993
85°	2054	2426	5158	3890	3672

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 75°  
 Vertical Angle: 45°  
 Luminance: 19460 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.4	5.6
10°-20°	266.5	15.4
20°-30°	335.9	19.4
30°-40°	322.4	18.6
40°-50°	277.7	16.0
50°-60°	212.3	12.2
60°-70°	135.1	7.8
70°-80°	68.5	3.9
80°-90°	18.1	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	699.7	40.4
0°-40°	1022.1	59.0
0°-60°	1512.2	87.2
0°-90°	1733.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1733.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1029	1029	1029	1029	1029	
5°	1134	1095	1032	942	921	111
15°	1175	1177	982	752	644	319
25°	598	981	873	524	454	286
35°	325	538	723	390	338	205
45°	218	302	546	289	242	169
55°	146	184	372	201	172	129
65°	79	101	222	123	105	78
75°	40	46	105	64	58	43
85°	9	11	24	18	17	11
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8
2.5°	1083.3	1084.7	1085.3	1083.6	1079.9	1080.3	1076.9	1071.2	1064.1	1057.7	1061.4
5°	1134.5	1136.2	1135.8	1132.8	1129.1	1125.7	1120.0	1111.9	1103.5	1094.8	1093.1
7.5°	1181.6	1185.3	1184.3	1178.6	1175.9	1171.2	1161.4	1152.3	1139.5	1127.1	1122.0
10°	1208.5	1211.6	1209.9	1208.5	1205.5	1200.8	1192.0	1183.3	1169.2	1156.0	1148.6
12.5°	1206.5	1209.2	1210.6	1211.9	1210.9	1209.2	1205.5	1198.1	1186.7	1174.5	1165.1
15°	1174.9	1170.5	1167.5	1175.9	1178.9	1190.4	1193.1	1194.1	1186.3	1177.2	1174.9
17.5°	1078.6	1079.9	1103.2	1099.5	1104.5	1132.5	1143.6	1158.7	1165.1	1163.1	1167.1
20°	964.1	948.3	959.8	976.6	992.4	1033.2	1060.1	1084.0	1111.6	1127.1	1141.9
22.5°	764.8	765.2	792.8	820.4	856.1	900.2	941.2	987.0	1036.2	1066.1	1100.8
25°	597.9	614.0	626.2	638.3	690.1	732.5	800.9	856.4	924.1	981.0	1039.2
27.5°	483.4	500.2	502.3	529.5	560.2	594.5	639.3	726.8	796.2	879.6	951.7
30°	412.7	416.1	423.2	430.2	452.8	484.8	532.9	587.8	664.9	760.1	856.8
32.5°	361.6	360.9	367.9	379.1	391.5	413.1	440.3	485.8	555.5	631.2	744.0
35°	325.2	324.2	329.2	333.3	340.7	358.2	382.8	412.7	462.9	538.3	625.8
37.5°	290.9	292.9	295.9	300.3	310.0	321.2	337.7	362.6	402.3	452.1	535.9
40°	263.9	266.3	269.6	272.7	280.1	289.2	300.3	320.1	346.7	390.2	454.5
42.5°	239.7	240.7	243.4	247.8	253.2	261.2	272.0	287.2	309.4	339.7	395.9
45°	217.5	217.5	220.5	224.5	227.9	235.6	244.1	258.5	275.7	301.6	341.7
47.5°	198.6	199.0	200.6	201.3	205.0	212.1	221.2	232.6	246.8	266.6	304.0
50°	182.5	183.8	184.5	185.5	186.8	190.5	196.9	205.7	221.2	238.7	263.6
52.5°	165.6	167.3	168.7	170.7	172.7	173.0	177.7	183.5	194.2	212.4	232.6
55°	146.1	147.4	150.1	151.8	154.5	156.9	160.6	164.6	171.7	183.8	204.7
57.5°	123.9	124.2	126.9	128.6	134.0	139.4	142.7	147.1	152.2	160.6	176.4
60°	101.7	102.7	103.0	104.4	109.1	114.8	121.5	128.3	133.6	141.1	152.2
62.5°	89.5	89.9	90.9	92.2	92.6	95.3	97.3	105.4	114.8	122.2	129.6
65°	78.8	79.1	79.1	80.1	81.5	82.8	83.8	86.9	90.9	101.3	110.4
67.5°	68.7	68.3	69.0	70.0	70.4	71.4	73.1	74.7	77.4	80.5	89.9
70°	58.6	58.6	58.2	59.2	60.3	60.6	61.6	63.3	65.0	67.7	70.7
72.5°	48.5	49.1	49.1	49.8	50.2	51.5	52.2	52.9	55.2	56.6	58.9
75°	40.4	40.1	41.1	40.7	41.4	41.7	42.8	43.8	44.4	45.8	47.8
77.5°	32.3	31.6	32.3	32.0	32.7	33.3	33.3	34.3	35.0	36.4	37.4
80°	23.6	23.6	23.9	24.6	24.6	24.9	25.6	25.2	26.6	26.9	27.9
82.5°	16.2	16.5	16.5	16.8	16.8	16.8	17.5	17.5	17.8	18.5	18.9
85°	9.4	9.1	9.4	9.4	9.4	9.8	10.1	9.8	10.4	11.1	11.1
87.5°	2.7	2.7	3.0	3.4	3.4	3.7	3.7	3.7	4.0	4.0	4.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8
2.5°	1061.4	1059.7	1055.4	1051.3	1043.9	1037.9	1035.8	1036.2	1027.1	1017.7	1015.0
5°	1090.7	1084.7	1075.9	1066.8	1055.7	1044.6	1037.5	1031.8	1017.7	1003.5	995.4
7.5°	1115.0	1105.2	1092.4	1077.9	1063.4	1047.0	1035.5	1024.7	1005.2	986.0	975.6
10°	1137.2	1123.4	1105.9	1087.0	1067.8	1046.3	1029.8	1013.0	988.4	966.8	949.0
12.5°	1158.4	1136.5	1118.7	1091.4	1070.2	1040.9	1018.3	998.8	969.9	942.9	923.1
15°	1160.4	1144.9	1121.0	1092.7	1060.4	1033.2	1004.9	982.0	949.0	919.0	885.0
17.5°	1160.1	1147.9	1123.0	1094.1	1055.4	1019.7	989.1	959.1	921.4	886.4	857.1
20°	1147.9	1139.5	1118.0	1083.6	1044.6	1003.5	969.5	934.2	890.1	854.1	822.1
22.5°	1119.3	1121.4	1104.5	1073.9	1031.8	986.0	946.6	905.9	860.8	819.4	779.0
25°	1070.9	1092.4	1087.4	1058.7	1014.0	963.8	919.0	873.2	824.8	780.7	743.3
27.5°	1010.6	1051.0	1059.7	1037.5	994.8	938.6	887.7	837.9	788.4	740.9	702.6
30°	939.2	999.5	1021.7	1009.6	970.2	911.3	852.4	803.6	749.4	698.9	658.5
32.5°	849.3	933.8	972.9	976.6	944.3	881.0	815.7	763.2	707.6	659.8	616.4
35°	749.0	852.7	916.3	933.5	910.3	847.7	779.0	723.4	664.2	616.1	572.3
37.5°	648.0	769.9	853.4	886.7	871.2	810.6	737.9	681.7	623.1	574.0	532.9
40°	555.1	670.9	779.3	831.5	826.8	770.6	697.2	638.9	579.4	533.9	488.8
42.5°	472.0	583.7	702.9	772.9	776.6	727.5	652.4	593.8	536.6	491.5	444.4
45°	406.3	504.6	622.8	706.3	722.4	682.0	606.0	545.7	493.5	451.1	404.0
47.5°	353.8	430.2	540.0	637.9	666.5	631.2	558.5	501.3	452.1	415.8	371.3
50°	308.4	380.1	473.3	563.9	606.0	579.4	511.4	456.8	412.4	377.4	338.3
52.5°	268.0	323.5	404.3	491.2	547.7	523.5	465.6	415.4	373.7	341.0	308.4
55°	234.6	281.1	352.5	429.9	482.1	468.6	417.1	372.3	335.6	304.7	278.1
57.5°	200.3	239.4	296.9	365.9	417.1	415.1	372.7	329.6	300.6	271.3	252.1
60°	170.3	202.0	248.8	307.4	358.9	359.2	326.2	292.2	267.3	242.0	223.9
62.5°	143.7	169.0	209.7	256.9	297.9	308.4	283.8	254.2	234.0	214.4	199.0
65°	120.9	139.7	170.3	213.1	245.4	259.6	243.4	221.8	205.0	187.5	173.7
67.5°	99.6	113.4	136.0	169.7	202.0	212.4	205.7	189.2	177.1	162.6	152.2
70°	78.4	90.2	106.0	131.3	157.9	172.4	170.3	158.6	148.5	138.0	128.3
72.5°	62.3	69.0	81.1	99.3	120.5	136.7	137.3	131.3	122.9	114.1	107.7
75°	50.2	53.2	58.9	73.1	89.9	103.3	108.1	105.0	98.3	92.9	88.5
77.5°	38.7	41.4	45.1	51.8	65.0	75.4	81.1	81.5	77.4	72.7	69.3
80°	29.0	30.0	32.7	36.0	42.8	51.8	58.6	58.6	56.2	53.9	51.8
82.5°	19.9	20.9	22.2	23.9	27.3	32.7	38.7	39.7	38.4	37.7	35.0
85°	11.1	12.1	12.8	13.8	15.1	17.8	22.2	23.6	23.9	21.9	20.5
87.5°	4.4	4.4	4.7	5.0	5.4	6.4	8.1	10.1	10.1	9.1	8.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8
2.5°	1011.6	1006.9	1000.8	995.4	988.0	980.6	979.3	982.0	982.7	979.3	980.3
5°	987.7	979.0	971.5	959.4	951.7	941.6	934.9	934.9	934.9	929.8	925.1
7.5°	962.8	951.0	936.9	925.4	909.6	896.5	890.1	887.0	881.0	875.9	870.2
10°	933.8	917.3	899.8	882.0	868.2	850.0	839.2	832.5	822.1	817.7	809.3
12.5°	899.8	883.3	862.1	833.2	829.1	806.9	791.8	779.3	766.5	756.1	752.4
15°	872.6	844.0	815.7	795.1	765.2	752.1	729.8	727.8	717.4	686.7	662.8
17.5°	828.5	802.9	771.6	748.7	724.8	695.5	671.9	648.7	626.5	604.9	604.3
20°	789.4	759.5	729.8	704.9	663.2	621.4	607.0	585.8	572.6	555.5	550.4
22.5°	746.7	715.4	678.3	642.0	593.2	566.9	551.1	534.2	521.1	513.4	505.6
25°	703.6	672.3	623.1	578.3	545.0	524.5	511.0	492.8	483.4	476.7	466.6
27.5°	661.5	621.8	569.9	534.2	507.3	484.1	472.0	457.2	446.7	438.0	431.6
30°	619.8	565.2	521.1	493.5	465.9	451.4	435.6	424.5	416.8	408.7	398.2
32.5°	574.0	516.7	488.1	454.1	438.0	417.1	405.7	394.2	384.1	378.4	374.7
35°	520.8	474.7	449.1	424.2	403.6	389.8	373.7	366.6	361.2	350.1	345.4
37.5°	475.7	442.3	415.4	393.2	374.3	359.5	352.1	340.0	332.3	328.6	323.5
40°	438.3	408.7	385.5	362.9	347.1	336.3	323.2	316.8	306.7	303.0	298.9
42.5°	406.0	378.7	354.5	337.3	323.5	308.7	302.0	291.2	286.8	277.7	274.4
45°	373.3	349.1	327.9	311.1	297.9	288.8	276.7	270.0	262.2	257.5	248.4
47.5°	340.7	319.1	301.6	287.5	276.0	264.9	254.8	249.1	239.4	234.3	229.6
50°	315.4	294.6	278.1	263.9	252.1	241.0	234.6	225.2	216.5	210.7	209.1
52.5°	285.5	267.3	252.1	241.4	229.6	221.5	212.8	202.3	197.9	192.2	190.9
55°	258.9	244.1	231.3	219.8	209.7	200.6	190.5	183.1	179.8	177.1	175.1
57.5°	234.0	219.8	208.0	197.6	188.9	179.4	171.0	166.6	163.6	160.6	158.6
60°	209.4	196.6	185.8	177.1	168.0	158.9	152.8	149.1	146.8	142.4	141.1
62.5°	187.5	175.7	164.6	156.5	148.1	141.1	136.0	131.0	127.3	123.9	116.8
65°	163.6	153.2	144.8	136.7	128.6	123.2	117.5	111.8	107.1	107.1	107.1
67.5°	142.4	133.3	124.6	117.5	110.4	104.0	98.3	98.0	96.3	95.6	94.6
70°	120.9	114.5	106.4	98.6	91.6	88.5	87.5	85.8	83.8	83.5	82.1
72.5°	101.3	93.9	86.5	79.8	78.4	77.1	75.1	73.4	72.0	71.0	70.4
75°	82.8	75.4	69.3	67.7	66.0	63.6	61.9	60.6	59.9	59.9	59.6
77.5°	63.3	58.9	56.2	53.5	52.2	50.8	49.8	49.1	48.1	48.5	47.8
80°	46.5	45.1	42.8	41.1	40.4	39.1	38.4	38.0	37.4	37.4	37.0
82.5°	33.3	31.0	30.0	29.0	28.3	27.6	27.9	27.6	27.3	26.9	27.3
85°	19.2	18.9	18.2	18.2	18.2	17.8	17.8	17.8	17.5	17.2	17.2
87.5°	8.4	8.8	8.8	8.1	9.1	9.1	8.8	8.8	8.4	9.1	8.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P243263

CATALOG NUMBER: S122RDRP-H485D840-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1028.8	1028.8	1028.8	1028.8
2.5°	975.9	975.6	973.6	970.2
5°	923.1	921.7	918.4	921.1
7.5°	866.5	862.8	859.4	861.1
10°	805.9	804.6	802.6	798.5
12.5°	738.9	744.3	738.6	751.4
15°	639.6	663.5	633.6	643.7
17.5°	590.1	590.5	586.4	581.7
20°	543.7	531.9	536.3	528.5
22.5°	498.9	496.2	494.9	492.2
25°	458.8	453.8	452.1	453.8
27.5°	429.2	426.9	420.5	419.5
30°	392.2	391.2	389.2	388.5
32.5°	369.0	364.6	363.6	359.5
35°	343.0	340.7	339.0	338.0
37.5°	317.1	315.8	312.7	314.4
40°	295.9	289.2	286.5	286.1
42.5°	272.7	269.0	263.6	261.9
45°	245.7	244.1	242.4	241.7
47.5°	222.2	221.2	219.2	218.1
50°	205.4	202.7	202.3	202.0
52.5°	189.2	188.2	187.2	188.5
55°	174.0	172.7	171.7	171.7
57.5°	157.5	155.2	153.2	153.5
60°	138.4	137.0	135.3	134.7
62.5°	116.1	116.1	115.8	115.8
65°	105.7	105.0	104.7	105.0
67.5°	94.3	93.6	92.6	92.9
70°	81.1	80.8	81.1	80.8
72.5°	69.3	69.0	69.3	70.0
75°	58.6	58.2	57.9	57.9
77.5°	47.5	47.1	46.5	47.1
80°	37.0	36.7	36.4	36.4
82.5°	26.3	26.6	26.3	26.3
85°	17.2	17.5	17.2	16.8
87.5°	8.8	9.1	8.4	8.1
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243263  
 CATALOG NUMBER: S122RDRP-H485D840-X4F0-XX-UDD-A-W

**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	15.18	16.64	15.54	16.95	17.26	21.51	22.97	21.87	23.28	23.59
	3H	16.35	17.65	16.73	17.98	18.34	22.76	24.06	23.14	24.39	24.76
	4H	16.81	18.03	17.21	18.38	18.76	23.19	24.41	23.59	24.76	25.14
	6H	17.14	18.26	17.55	18.63	19.02	23.49	24.61	23.90	24.98	25.37
	8H	17.24	18.31	17.66	18.70	19.10	23.57	24.64	24.00	25.03	25.44
	12H	17.29	18.31	17.72	18.70	19.13	23.62	24.65	24.05	25.03	25.46
4H	2H	15.90	17.12	16.30	17.47	17.85	21.49	22.71	21.89	23.06	23.44
	3H	17.23	18.24	17.64	18.64	19.04	22.88	23.89	23.29	24.29	24.69
	4H	17.78	18.69	18.21	19.11	19.55	23.41	24.31	23.84	24.73	25.17
	6H	18.21	19.00	18.67	19.44	19.91	23.82	24.61	24.28	25.05	25.52
	8H	18.34	19.08	18.81	19.52	19.99	23.95	24.69	24.42	25.14	25.60
	12H	18.42	19.08	18.91	19.56	20.03	24.05	24.70	24.53	25.18	25.65
8H	4H	18.13	18.86	18.59	19.31	19.78	23.40	24.14	23.87	24.58	25.05
	6H	18.65	19.26	19.15	19.75	20.23	23.87	24.47	24.37	24.97	25.45
	8H	18.84	19.38	19.35	19.89	20.38	24.04	24.58	24.56	25.09	25.58
	12H	18.97	19.45	19.48	19.94	20.51	24.18	24.66	24.69	25.15	25.72
12H	4H	18.17	18.82	18.65	19.30	19.78	23.38	24.04	23.87	24.52	24.99
	6H	18.71	19.26	19.23	19.77	20.26	23.85	24.39	24.36	24.90	25.39
	8H	18.95	19.43	19.46	19.92	20.49	24.05	24.53	24.56	25.02	25.59