

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: P243249

Luminaire Tested: S122RDRP-H675D927-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P243249  
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-H675D927-X4F0-XX-UDD-A-W  
Description: DEFINE 2 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: (184) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

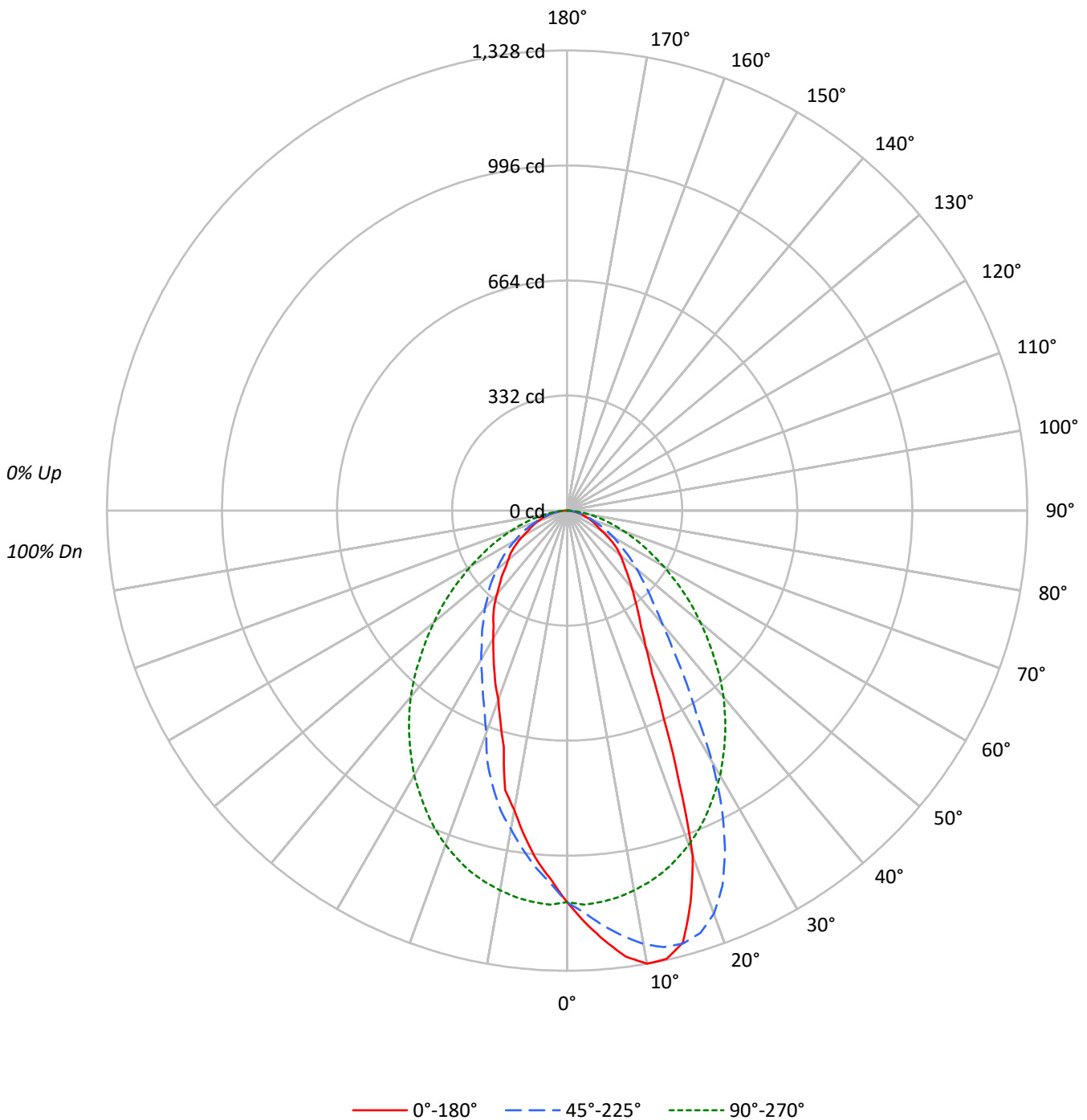
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1904.8 lumens  
Efficiency: N/A  
Efficacy: 80.7 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): 23.6  
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°	21528	21528	21528	21528	21528
5°	23830	22996	21673	19778	19348
10°	25680	24564	21523	18061	16968
15°	25452	25503	21274	16292	13944
20°	21470	25098	20803	13838	11769
25°	13804	22650	20164	12110	10477
30°	9972	18368	19417	10907	9387
35°	8308	13752	18481	9959	8634
40°	7211	10657	17453	9188	7818
45°	6435	8927	16149	8547	7152
50°	5941	7770	14873	7847	6576
55°	5330	6705	13582	7319	6263
60°	4255	5905	12229	6651	5634
65°	3899	5016	10984	6103	5201
70°	3587	4138	9702	5419	4945
75°	3268	3702	8493	5144	4681
80°	2841	3247	7064	4706	4377
85°	2273	2666	5660	4284	4043

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 75°  
 Vertical Angle: 45°  
 Luminance: 21380 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.0	5.6
10°-20°	292.7	15.4
20°-30°	369.0	19.4
30°-40°	354.2	18.6
40°-50°	305.1	16.0
50°-60°	233.3	12.2
60°-70°	148.4	7.8
70°-80°	75.2	3.9
80°-90°	19.9	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°	768.7	40.4
0°-40°	1122.9	59.0
0°-60°	1661.3	87.2
0°-90°	1904.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1904.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1130	1130	1130	1130	1130	
5°	1246	1203	1134	1034	1012	121
15°	1291	1293	1079	826	707	350
25°	657	1078	959	576	498	314
35°	357	591	795	428	371	225
45°	239	331	600	317	266	186
55°	160	202	409	220	189	142
65°	86	111	244	135	115	86
75°	44	50	115	70	64	47
85°	10	12	26	20	18	12
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°	1130.2	1130.2	1130.2	1130.2	1130.2	1130.2	1130.2	1130.2	1130.2	1130.2	1130.2
2.5°	1190.1	1191.6	1192.4	1190.5	1186.4	1186.8	1183.1	1176.8	1169.1	1162.0	1166.1
5°	1246.3	1248.2	1247.8	1244.5	1240.4	1236.7	1230.4	1221.6	1212.3	1202.7	1200.9
7.5°	1298.1	1302.2	1301.1	1294.8	1291.8	1286.7	1275.9	1265.9	1251.9	1238.2	1232.7
10°	1327.7	1331.0	1329.2	1327.7	1324.4	1319.2	1309.6	1300.0	1284.4	1270.0	1261.9
12.5°	1325.5	1328.5	1329.9	1331.4	1330.3	1328.5	1324.4	1316.2	1303.7	1290.4	1280.0
15°	1290.7	1285.9	1282.6	1291.8	1295.2	1307.7	1310.7	1311.8	1303.3	1293.3	1290.7
17.5°	1185.0	1186.4	1212.0	1207.9	1213.4	1244.1	1256.3	1273.0	1280.0	1277.8	1282.2
20°	1059.2	1041.8	1054.4	1072.9	1090.3	1135.0	1164.6	1190.9	1221.2	1238.2	1254.5
22.5°	840.3	840.6	871.0	901.3	940.5	988.9	1034.1	1084.4	1138.4	1171.3	1209.4
25°	656.8	674.6	687.9	701.2	758.2	804.8	879.8	940.9	1015.2	1077.7	1141.7
27.5°	531.1	549.6	551.8	581.8	615.4	653.1	702.3	798.5	874.7	966.4	1045.5
30°	453.4	457.1	464.9	472.7	497.4	532.6	585.5	645.7	730.4	835.1	941.2
32.5°	397.2	396.5	404.2	416.4	430.1	453.8	483.7	533.7	610.2	693.4	817.3
35°	357.3	356.2	361.7	366.1	374.3	393.5	420.5	453.4	508.5	591.4	687.5
37.5°	319.5	321.8	325.1	329.9	340.6	352.8	370.9	398.3	442.0	496.7	588.8
40°	290.0	292.5	296.2	299.6	307.7	317.7	329.9	351.7	380.9	428.6	499.3
42.5°	263.3	264.4	267.4	272.2	278.1	287.0	298.8	315.5	339.9	373.2	434.9
45°	238.9	238.9	242.2	246.7	250.4	258.9	268.1	284.0	302.9	331.4	375.4
47.5°	218.2	218.6	220.4	221.2	225.2	233.0	243.0	255.6	271.1	292.9	334.0
50°	200.5	201.9	202.7	203.8	205.3	209.3	216.4	226.0	243.0	262.2	289.6
52.5°	182.0	183.8	185.3	187.5	189.7	190.1	195.3	201.6	213.4	233.4	255.6
55°	160.5	162.0	164.9	166.8	169.8	172.3	176.4	180.8	188.6	201.9	224.9
57.5°	136.1	136.5	139.4	141.3	147.2	153.1	156.8	161.6	167.2	176.4	193.8
60°	111.7	112.8	113.2	114.6	119.8	126.1	133.5	140.9	146.8	155.0	167.2
62.5°	98.4	98.7	99.9	101.3	101.7	104.7	106.9	115.8	126.1	134.3	142.4
65°	86.5	86.9	86.9	88.0	89.5	91.0	92.1	95.4	99.9	111.3	121.3
67.5°	75.4	75.1	75.8	76.9	77.3	78.4	80.3	82.1	85.1	88.4	98.7
70°	64.4	64.4	64.0	65.1	66.2	66.6	67.7	69.5	71.4	74.3	77.7
72.5°	53.3	54.0	54.0	54.7	55.1	56.6	57.3	58.1	60.7	62.1	64.7
75°	44.4	44.0	45.1	44.8	45.5	45.9	47.0	48.1	48.8	50.3	52.5
77.5°	35.5	34.8	35.5	35.1	35.9	36.6	36.6	37.7	38.5	39.9	41.1
80°	25.9	25.9	26.3	27.0	27.0	27.4	28.1	27.7	29.2	29.6	30.7
82.5°	17.8	18.1	18.1	18.5	18.5	18.5	19.2	19.2	19.6	20.3	20.7
85°	10.4	10.0	10.4	10.4	10.4	10.7	11.1	10.7	11.5	12.2	12.2
87.5°	3.0	3.0	3.3	3.7	3.7	4.1	4.1	4.1	4.4	4.4	4.8
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1130.2	1130.2	1130.2	1130.2	1130.2	1130.2	1130.2	1130.2	1130.2	1130.2	1130.2
2.5°	1166.1	1164.2	1159.4	1155.0	1146.9	1140.2	1138.0	1138.4	1128.4	1118.0	1115.1
5°	1198.3	1191.6	1182.0	1172.0	1159.8	1147.6	1139.8	1133.5	1118.0	1102.5	1093.6
7.5°	1224.9	1214.2	1200.1	1184.2	1168.3	1150.2	1137.6	1125.8	1104.3	1083.2	1071.8
10°	1249.3	1234.1	1214.9	1194.2	1173.1	1149.4	1131.3	1112.8	1085.8	1062.2	1042.6
12.5°	1272.6	1248.6	1229.0	1199.0	1175.7	1143.5	1118.8	1097.3	1065.5	1035.9	1014.1
15°	1274.8	1257.8	1231.6	1200.5	1165.0	1135.0	1104.0	1078.8	1042.6	1009.7	972.3
17.5°	1274.5	1261.1	1233.8	1202.0	1159.4	1120.2	1086.6	1053.7	1012.2	973.8	941.6
20°	1261.1	1251.9	1228.2	1190.5	1147.6	1102.5	1065.1	1026.3	977.8	938.3	903.1
22.5°	1229.7	1231.9	1213.4	1179.8	1133.5	1083.2	1040.0	995.2	945.7	900.2	855.8
25°	1176.4	1200.1	1194.6	1163.1	1113.9	1058.8	1009.7	959.4	906.1	857.6	816.6
27.5°	1110.2	1154.6	1164.2	1139.8	1092.9	1031.1	975.3	920.5	866.2	814.0	771.8
30°	1031.8	1098.0	1122.5	1109.1	1065.9	1001.1	936.4	882.8	823.3	767.8	723.4
32.5°	933.1	1025.9	1068.8	1072.9	1037.4	967.9	896.1	838.4	777.4	724.9	677.2
35°	822.9	936.8	1006.7	1025.6	1000.0	931.2	855.8	794.8	729.7	676.8	628.7
37.5°	711.9	845.8	937.5	974.1	957.1	890.6	810.7	748.9	684.6	630.6	585.5
40°	609.9	737.1	856.2	913.5	908.3	846.6	765.9	701.9	636.5	586.6	537.0
42.5°	518.5	641.3	772.2	849.1	853.2	799.2	716.7	652.4	589.5	540.0	488.2
45°	446.4	554.4	684.2	775.9	793.7	749.3	665.7	599.5	542.2	495.6	443.8
47.5°	388.7	472.7	593.2	700.8	732.3	693.4	613.6	550.7	496.7	456.7	407.9
50°	338.8	417.5	520.0	619.5	665.7	636.5	561.8	501.9	453.0	414.6	371.7
52.5°	294.4	355.4	444.2	539.6	601.7	575.1	511.5	456.4	410.5	374.6	338.8
55°	257.8	308.8	387.2	472.3	529.6	514.8	458.2	409.0	368.7	334.7	305.5
57.5°	220.1	263.0	326.2	402.0	458.2	456.0	409.4	362.1	330.3	298.1	277.0
60°	187.1	221.9	273.3	337.7	394.2	394.6	358.4	321.0	293.6	265.9	245.9
62.5°	157.9	185.7	230.4	282.2	327.3	338.8	311.8	279.2	257.0	235.6	218.6
65°	132.8	153.5	187.1	234.1	269.6	285.1	267.4	243.7	225.2	206.0	190.8
67.5°	109.5	124.6	149.4	186.4	221.9	233.4	226.0	207.8	194.5	178.6	167.2
70°	86.2	99.1	116.5	144.2	173.5	189.4	187.1	174.2	163.1	151.6	140.9
72.5°	68.4	75.8	89.1	109.1	132.4	150.2	150.9	144.2	135.0	125.4	118.3
75°	55.1	58.4	64.7	80.3	98.7	113.5	118.7	115.4	108.0	102.1	97.3
77.5°	42.5	45.5	49.6	57.0	71.4	82.8	89.1	89.5	85.1	79.9	76.2
80°	31.8	32.9	35.9	39.6	47.0	57.0	64.4	64.4	61.8	59.2	57.0
82.5°	21.8	22.9	24.4	26.3	30.0	35.9	42.5	43.6	42.2	41.4	38.5
85°	12.2	13.3	14.1	15.2	16.6	19.6	24.4	25.9	26.3	24.0	22.6
87.5°	4.8	4.8	5.2	5.5	5.9	7.0	8.9	11.1	11.1	10.0	9.6
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°	1130.2	1130.2	1130.2	1130.2	1130.2	1130.2	1130.2	1130.2	1130.2	1130.2	1130.2
2.5°	1111.4	1106.2	1099.5	1093.6	1085.5	1077.3	1075.9	1078.8	1079.6	1075.9	1077.0
5°	1085.1	1075.5	1067.3	1054.0	1045.5	1034.4	1027.0	1027.0	1027.0	1021.5	1016.3
7.5°	1057.7	1044.8	1029.3	1016.7	999.3	984.9	977.8	974.5	967.9	962.3	956.0
10°	1025.9	1007.8	988.6	969.0	953.8	933.8	922.0	914.6	903.1	898.3	889.1
12.5°	988.6	970.4	947.1	915.3	910.9	886.5	869.9	856.2	842.1	830.7	826.6
15°	958.6	927.2	896.1	873.6	840.6	826.2	801.8	799.6	788.1	754.5	728.2
17.5°	910.2	882.1	847.7	822.5	796.3	764.1	738.2	712.7	688.3	664.6	663.9
20°	867.3	834.3	801.8	774.4	728.6	682.7	666.8	643.5	629.1	610.2	604.7
22.5°	820.3	785.9	745.2	705.3	651.7	622.8	605.4	586.9	572.5	564.0	555.5
25°	773.0	738.6	684.6	635.4	598.8	576.2	561.4	541.4	531.1	523.7	512.6
27.5°	726.7	683.1	626.1	586.9	557.3	531.8	518.5	502.2	490.8	481.2	474.1
30°	680.9	621.0	572.5	542.2	511.9	495.9	478.6	466.4	457.9	449.0	437.5
32.5°	630.6	567.7	536.3	498.9	481.2	458.2	445.7	433.1	422.0	415.7	411.6
35°	572.1	521.5	493.4	466.0	443.4	428.3	410.5	402.8	396.8	384.6	379.5
37.5°	522.6	486.0	456.4	432.0	411.3	395.0	386.8	373.5	365.0	361.0	355.4
40°	481.5	449.0	423.5	398.7	381.3	369.5	355.0	348.0	336.9	332.9	328.4
42.5°	446.0	416.1	389.4	370.6	355.4	339.1	331.7	319.9	315.1	305.1	301.4
45°	410.1	383.5	360.2	341.7	327.3	317.3	304.0	296.6	288.1	282.9	272.9
47.5°	374.3	350.6	331.4	315.8	303.3	291.1	280.0	273.7	263.0	257.4	252.2
50°	346.5	323.6	305.5	290.0	277.0	264.8	257.8	247.4	237.8	231.5	229.7
52.5°	313.6	293.6	277.0	265.2	252.2	243.4	233.7	222.3	217.5	211.2	209.7
55°	284.4	268.1	254.1	241.5	230.4	220.4	209.3	201.2	197.5	194.5	192.3
57.5°	257.0	241.5	228.6	217.1	207.5	197.1	187.9	183.1	179.7	176.4	174.2
60°	230.0	216.0	204.1	194.5	184.5	174.6	167.9	163.8	161.2	156.4	155.0
62.5°	206.0	193.1	180.8	172.0	162.7	155.0	149.4	143.9	139.8	136.1	128.3
65°	179.7	168.3	159.0	150.2	141.3	135.4	129.1	122.8	117.6	117.6	117.6
67.5°	156.4	146.5	136.8	129.1	121.3	114.3	108.0	107.6	105.8	105.0	103.9
70°	132.8	125.7	116.9	108.4	100.6	97.3	96.2	94.3	92.1	91.7	90.2
72.5°	111.3	103.2	95.0	87.7	86.2	84.7	82.5	80.6	79.1	78.0	77.3
75°	91.0	82.8	76.2	74.3	72.5	69.9	68.0	66.6	65.8	65.8	65.5
77.5°	69.5	64.7	61.8	58.8	57.3	55.8	54.7	54.0	52.9	53.3	52.5
80°	51.0	49.6	47.0	45.1	44.4	42.9	42.2	41.8	41.1	41.1	40.7
82.5°	36.6	34.0	32.9	31.8	31.1	30.3	30.7	30.3	30.0	29.6	30.0
85°	21.1	20.7	20.0	20.0	20.0	19.6	19.6	19.6	19.2	18.9	18.9
87.5°	9.2	9.6	9.6	8.9	10.0	10.0	9.6	9.6	9.2	10.0	9.2
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: P243249

CATALOG NUMBER: S122RDRP-H675D927-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1130.2	1130.2	1130.2	1130.2
2.5°	1072.2	1071.8	1069.6	1065.9
5°	1014.1	1012.6	1008.9	1011.9
7.5°	952.0	947.9	944.2	946.0
10°	885.4	883.9	881.7	877.3
12.5°	811.8	817.7	811.4	825.5
15°	702.7	728.9	696.0	707.1
17.5°	648.3	648.7	644.3	639.1
20°	597.3	584.3	589.1	580.6
22.5°	548.1	545.1	543.7	540.7
25°	504.1	498.5	496.7	498.5
27.5°	471.5	469.0	461.9	460.8
30°	430.9	429.7	427.5	426.8
32.5°	405.3	400.5	399.4	395.0
35°	376.9	374.3	372.4	371.3
37.5°	348.4	346.9	343.6	345.4
40°	325.1	317.7	314.7	314.4
42.5°	299.6	295.5	289.6	287.7
45°	270.0	268.1	266.3	265.5
47.5°	244.1	243.0	240.8	239.7
50°	225.6	222.6	222.3	221.9
52.5°	207.8	206.7	205.6	207.1
55°	191.2	189.7	188.6	188.6
57.5°	173.1	170.5	168.3	168.6
60°	152.0	150.5	148.7	147.9
62.5°	127.6	127.6	127.2	127.2
65°	116.1	115.4	115.0	115.4
67.5°	103.6	102.8	101.7	102.1
70°	89.1	88.8	89.1	88.8
72.5°	76.2	75.8	76.2	76.9
75°	64.4	64.0	63.6	63.6
77.5°	52.1	51.8	51.0	51.8
80°	40.7	40.3	39.9	39.9
82.5°	28.8	29.2	28.8	28.8
85°	18.9	19.2	18.9	18.5
87.5°	9.6	10.0	9.2	8.9
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243249  
 CATALOG NUMBER: S122RDRP-H675D927-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	15.50	16.96	15.87	17.27	17.59	21.84	23.29	22.20	23.61	23.92
	3H	16.68	17.98	17.06	18.31	18.67	23.09	24.39	23.47	24.72	25.08
	4H	17.13	18.35	17.53	18.70	19.08	23.52	24.74	23.92	25.09	25.47
	6H	17.47	18.59	17.88	18.96	19.35	23.81	24.94	24.23	25.31	25.70
	8H	17.56	18.63	17.99	19.02	19.43	23.90	24.97	24.33	25.36	25.76
	12H	17.62	18.64	18.05	19.02	19.45	23.95	24.97	24.38	25.35	25.78
4H	2H	16.23	17.45	16.63	17.80	18.18	21.82	23.04	22.22	23.39	23.77
	3H	17.56	18.57	17.97	18.97	19.37	23.20	24.21	23.62	24.62	25.02
	4H	18.11	19.02	18.54	19.43	19.87	23.73	24.64	24.17	25.06	25.50
	6H	18.54	19.33	19.00	19.77	20.23	24.15	24.94	24.61	25.38	25.84
	8H	18.67	19.41	19.14	19.85	20.32	24.28	25.02	24.75	25.46	25.93
	12H	18.75	19.41	19.23	19.89	20.36	24.37	25.03	24.86	25.51	25.98
8H	4H	18.45	19.19	18.92	19.63	20.10	23.73	24.47	24.20	24.91	25.38
	6H	18.98	19.58	19.48	20.08	20.56	24.20	24.80	24.69	25.29	25.77
	8H	19.16	19.71	19.68	20.22	20.71	24.37	24.91	24.88	25.42	25.91
	12H	19.30	19.78	19.81	20.27	20.84	24.51	24.99	25.02	25.48	26.05
12H	4H	18.50	19.15	18.98	19.63	20.10	23.71	24.37	24.19	24.84	25.32
	6H	19.04	19.58	19.56	20.10	20.58	24.17	24.72	24.69	25.23	25.72
	8H	19.27	19.75	19.79	20.25	20.81	24.38	24.86	24.89	25.35	25.92