

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: P242409

Luminaire Tested: S122RDRP-S675D930-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242409
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDRP-S675D930-X4F0-XX-UDD-A-W
Description: DEFINE 2 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

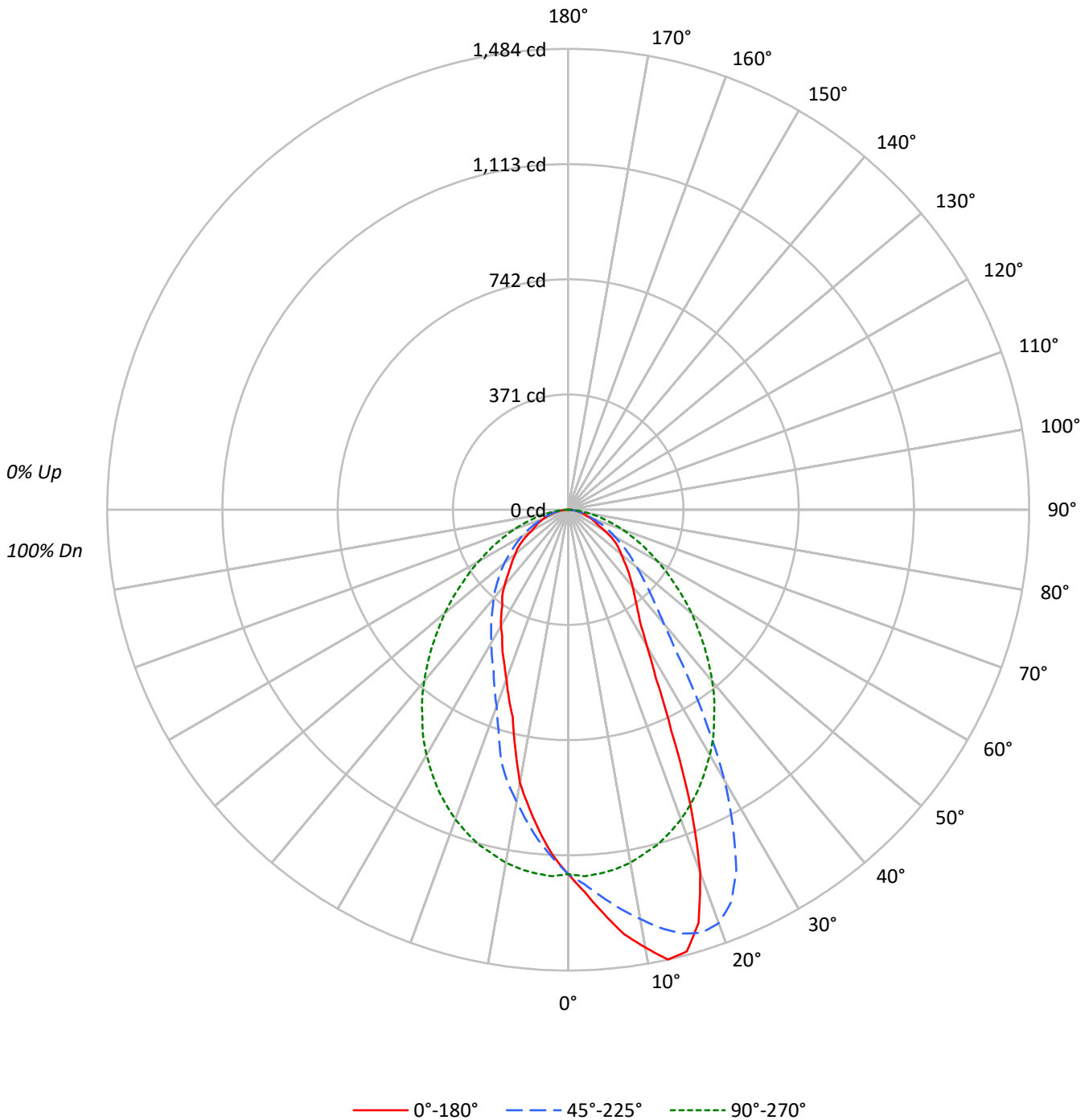
Lumens per Lamp: N/A
Luminaire Lumens: 2027.5 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 1.16 / 1.02
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (A_{in}): 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	111	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	87	83	80	84	81	78					76				
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68					66				
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60					59				
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	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					39				
9	62	50	43	38	61	50	42	37	49	42	37	47	41	37	47	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°	22349	22349	22349	22349	22349
5°	24960	23931	22488	20493	19939
10°	27691	25887	22330	18467	17284
15°	29053	27864	22003	16472	13618
20°	25188	28725	21519	13644	11783
25°	16519	26912	20855	11944	10521
30°	11118	22157	20050	10876	9521
35°	9006	16182	19035	10029	8590
40°	8009	11890	17933	9255	7947
45°	7249	9883	16637	8577	7095
50°	6596	8564	15356	7924	6573
55°	6200	7582	13931	7163	6120
60°	5189	6602	12625	6568	5124
65°	4372	5882	11466	5841	4962
70°	4043	4678	10242	5151	4678
75°	3783	4232	8912	4857	4320
80°	3488	3850	7338	4245	3850
85°	3213	3300	5792	3387	3387

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 70°
 Vertical Angle: 45°
 Luminance: 24236 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.3	5.5
10°-20°	310.6	15.3
20°-30°	399.8	19.7
30°-40°	379.2	18.7
40°-50°	325.0	16.0
50°-60°	247.5	12.2
60°-70°	156.1	7.7
70°-80°	77.9	3.8
80°-90°	20.0	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°	821.7	40.5
0°-40°	1200.9	59.2
0°-60°	1773.4	87.5
0°-90°	2027.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2027.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1173	1173	1173	1173	1173	
5°	1305	1252	1176	1072	1043	129
15°	1473	1413	1116	835	691	401
25°	786	1280	992	568	501	371
35°	387	696	819	431	369	246
45°	269	367	618	318	263	208
55°	187	228	420	216	184	164
65°	97	130	254	130	110	98
75°	51	58	121	66	59	54
85°	15	15	26	16	16	16
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°	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3
2.5°	1232.8	1234.0	1235.2	1232.4	1232.4	1229.9	1224.6	1220.6	1209.2	1207.5	1207.5
5°	1305.4	1304.5	1306.2	1300.9	1293.5	1291.9	1284.2	1274.0	1263.4	1251.6	1249.1
7.5°	1378.7	1373.9	1371.8	1374.3	1366.5	1355.9	1342.9	1330.6	1312.3	1297.2	1287.8
10°	1431.7	1445.2	1437.0	1422.8	1425.6	1406.5	1396.3	1378.7	1364.1	1338.4	1332.7
12.5°	1483.9	1487.2	1486.0	1479.4	1474.1	1462.3	1447.6	1433.0	1402.8	1380.4	1356.7
15°	1473.3	1481.1	1483.1	1480.7	1482.7	1481.9	1474.5	1461.9	1438.3	1413.0	1391.0
17.5°	1395.1	1404.0	1411.4	1417.9	1428.1	1448.0	1454.2	1456.6	1446.8	1428.9	1410.5
20°	1242.6	1233.6	1271.1	1290.3	1306.6	1347.4	1382.4	1395.9	1417.5	1417.1	1413.0
22.5°	1026.5	1031.4	1066.5	1090.1	1145.6	1186.3	1227.5	1287.4	1334.3	1369.0	1390.2
25°	786.0	801.5	836.9	867.9	920.9	996.8	1065.7	1145.6	1221.0	1280.5	1337.2
27.5°	611.5	613.5	645.8	677.1	709.8	775.4	867.5	963.3	1071.0	1148.4	1246.3
30°	505.5	503.1	514.9	532.4	559.3	607.4	672.7	766.4	873.6	1007.4	1126.4
32.5°	430.5	431.3	439.5	451.3	472.5	501.0	540.6	612.3	712.2	843.1	987.8
35°	387.3	386.9	393.4	402.8	412.2	432.9	463.5	503.5	573.2	695.9	838.6
37.5°	351.4	353.5	356.3	362.4	373.8	386.1	405.2	433.4	486.4	562.6	690.6
40°	322.1	322.9	327.4	332.3	338.4	347.3	362.4	384.0	420.3	478.2	565.8
42.5°	295.2	296.0	298.8	303.3	307.8	316.8	328.6	346.5	374.2	416.2	484.7
45°	269.1	269.1	271.9	274.0	279.3	287.4	297.6	313.1	333.5	366.9	415.0
47.5°	243.8	243.8	245.8	249.5	253.2	259.7	270.3	283.3	298.0	325.3	368.1
50°	222.6	223.0	224.2	227.1	229.1	234.8	242.6	253.6	269.1	289.0	323.3
52.5°	205.5	205.1	206.7	207.5	208.7	212.4	217.7	227.1	240.5	257.2	284.1
55°	186.7	185.1	187.5	189.6	190.8	192.4	195.7	201.8	213.6	228.3	249.5
57.5°	164.7	163.9	165.1	167.1	170.8	174.9	176.9	181.0	187.1	198.5	221.0
60°	136.2	136.2	139.8	141.1	145.5	151.2	157.0	160.2	166.3	173.3	188.8
62.5°	110.9	111.3	112.5	113.7	115.8	123.1	131.7	139.8	145.5	152.1	161.0
65°	97.0	97.8	97.8	98.7	100.3	101.9	105.2	110.9	121.1	130.5	138.2
67.5°	84.8	84.8	85.2	86.0	86.4	88.5	89.7	92.5	94.6	105.2	115.8
70°	72.6	73.8	73.4	74.2	74.6	75.4	77.0	78.3	81.9	84.0	89.7
72.5°	61.2	62.0	62.0	62.4	63.6	63.6	64.8	66.0	68.1	69.7	72.2
75°	51.4	51.0	51.4	52.2	52.6	53.0	53.0	54.6	55.9	57.5	59.5
77.5°	41.6	42.0	42.0	42.0	42.0	42.8	42.8	43.6	44.8	45.7	46.9
80°	31.8	32.2	31.8	32.2	32.6	33.0	32.6	33.0	34.2	35.1	35.1
82.5°	22.8	22.8	23.2	23.2	23.2	23.2	24.1	24.1	24.9	24.5	24.9
85°	14.7	14.3	14.3	14.3	14.7	15.1	14.7	14.7	15.1	15.1	15.1
87.5°	6.5	6.9	6.9	6.9	6.9	6.9	6.9	7.3	6.9	7.3	6.9
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°	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3
2.5°	1208.3	1205.1	1202.2	1194.9	1191.2	1183.1	1181.8	1181.4	1170.8	1160.6	1157.8
5°	1242.6	1236.1	1226.3	1214.9	1203.0	1190.8	1182.7	1176.1	1159.8	1144.3	1135.4
7.5°	1276.4	1264.6	1249.1	1229.5	1212.8	1193.3	1179.8	1167.6	1145.1	1124.8	1111.3
10°	1315.1	1292.3	1269.9	1240.1	1216.9	1194.1	1172.9	1154.5	1128.4	1099.1	1078.3
12.5°	1339.2	1313.5	1280.5	1251.6	1219.8	1189.2	1159.0	1134.1	1102.3	1071.8	1046.1
15°	1360.4	1333.5	1296.0	1254.4	1215.7	1177.8	1145.1	1115.8	1075.8	1039.6	1009.4
17.5°	1380.0	1342.9	1304.1	1256.0	1213.2	1167.2	1126.0	1089.3	1045.7	1002.9	968.6
20°	1388.5	1351.8	1305.4	1257.3	1204.3	1147.6	1102.3	1061.6	1013.9	966.2	925.4
22.5°	1383.2	1356.7	1303.7	1243.8	1189.2	1129.3	1076.7	1027.7	973.5	924.6	875.7
25°	1355.5	1345.7	1296.8	1234.0	1172.1	1103.2	1044.0	992.3	931.9	879.8	828.4
27.5°	1304.5	1318.8	1284.2	1216.1	1149.2	1075.0	1010.6	952.3	890.8	832.5	781.1
30°	1223.8	1272.3	1259.3	1197.3	1120.3	1047.7	973.1	911.6	844.7	784.4	733.8
32.5°	1113.4	1201.4	1220.6	1171.2	1090.9	1009.4	930.3	869.2	798.6	734.2	685.3
35°	994.7	1114.6	1169.6	1136.6	1056.7	970.7	889.9	818.6	748.5	685.7	636.8
37.5°	854.1	1013.9	1098.7	1095.0	1018.8	931.1	843.5	772.9	700.8	638.8	587.9
40°	717.9	894.8	1014.3	1040.8	978.8	882.2	793.3	721.2	651.1	590.7	530.0
42.5°	595.6	771.7	925.4	976.4	930.3	834.5	745.2	669.0	601.3	545.1	482.7
45°	501.4	655.5	817.4	899.7	872.4	783.5	689.4	617.6	553.6	504.3	444.8
47.5°	434.2	546.3	708.9	816.6	813.3	728.9	635.2	566.3	505.9	460.3	409.7
50°	378.3	472.9	605.4	731.8	742.4	674.3	586.2	518.2	462.7	414.2	375.5
52.5°	328.2	402.0	517.7	637.6	672.7	616.0	531.2	469.6	416.2	372.6	340.8
55°	285.8	346.1	436.6	549.9	595.6	554.0	478.2	419.5	375.9	338.4	309.8
57.5°	248.7	296.0	371.4	466.4	518.2	490.0	425.2	376.7	338.0	302.9	280.1
60°	214.0	251.1	312.7	388.9	447.6	429.3	375.9	331.4	299.6	270.3	249.1
62.5°	181.4	212.0	262.5	320.8	373.4	368.5	327.4	291.9	265.0	238.9	221.8
65°	151.2	174.5	215.7	264.2	307.4	311.1	279.7	254.4	229.5	208.3	192.4
67.5°	125.2	141.1	172.0	214.8	247.9	259.3	238.1	217.7	197.3	180.2	165.9
70°	101.5	113.7	134.9	168.0	197.7	210.0	198.9	183.9	166.7	153.3	141.5
72.5°	77.5	89.3	103.5	125.6	150.0	163.5	161.4	151.7	138.6	128.0	117.0
75°	62.0	65.6	76.2	92.5	112.5	123.9	126.8	121.1	110.1	101.5	95.0
77.5°	48.1	50.6	56.3	66.0	79.9	90.1	94.6	93.8	85.6	79.9	73.8
80°	36.7	37.9	40.4	44.0	53.8	64.0	66.9	66.9	61.6	59.5	53.4
82.5°	25.7	26.5	27.7	29.4	32.6	41.2	44.4	45.3	42.4	39.5	35.1
85°	15.9	15.5	16.3	17.5	18.3	20.8	25.7	26.5	25.7	22.4	21.2
87.5°	6.9	7.3	7.3	6.9	7.3	7.7	9.8	11.8	10.2	9.0	8.2
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°	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3
2.5°	1152.5	1149.6	1144.3	1136.2	1131.3	1122.7	1117.0	1120.3	1121.1	1120.3	1119.5
5°	1125.6	1117.0	1105.2	1093.8	1083.2	1071.8	1065.2	1062.4	1056.7	1053.4	1051.8
7.5°	1095.0	1082.4	1065.7	1047.3	1030.2	1013.9	1006.5	1000.8	990.2	984.5	979.2
10°	1059.9	1036.7	1020.0	993.9	978.0	954.8	938.9	939.3	923.4	914.4	907.9
12.5°	1021.2	995.1	964.6	941.7	918.1	900.5	880.6	870.8	853.7	845.1	824.7
15°	977.6	947.8	918.5	886.7	864.3	835.3	807.6	773.8	746.4	722.8	716.3
17.5°	931.1	894.4	865.5	832.9	797.8	745.2	711.0	690.2	673.9	661.7	651.9
20°	883.0	845.5	814.1	757.9	706.1	673.1	649.4	634.3	617.2	603.8	596.4
22.5°	832.5	792.9	747.3	682.8	645.3	620.5	600.1	582.2	572.0	562.2	555.7
25°	785.2	742.4	671.8	628.6	596.0	568.3	553.6	543.0	530.8	516.5	510.0
27.5°	735.8	667.8	614.4	583.0	549.5	532.0	519.4	501.8	490.8	485.5	478.2
30°	679.2	611.1	571.6	536.5	514.5	494.5	479.0	470.0	459.4	448.4	444.0
32.5°	616.0	565.0	527.5	499.8	477.4	461.1	449.7	433.8	426.8	421.1	410.5
35°	565.8	524.7	490.0	466.4	445.2	431.3	417.0	408.5	394.6	388.9	385.2
37.5°	520.2	484.3	458.2	432.1	415.8	399.5	391.4	377.1	371.8	362.8	355.5
40°	482.7	447.6	422.8	402.4	383.6	372.2	361.2	350.2	341.2	337.6	328.2
42.5°	444.4	417.5	392.6	369.8	358.8	346.5	331.8	324.5	315.1	308.6	303.7
45°	409.7	384.4	363.2	344.9	331.0	318.4	309.4	296.0	290.7	278.8	274.0
47.5°	379.1	354.7	334.3	316.4	302.5	295.2	282.1	270.3	262.9	254.8	247.9
50°	346.1	326.5	307.0	291.5	279.3	267.4	254.0	248.7	235.6	232.0	228.3
52.5°	315.9	297.6	280.1	265.0	252.8	241.3	229.9	222.6	214.8	211.2	208.7
55°	288.2	270.3	253.2	239.7	227.5	215.7	208.3	199.8	195.7	192.8	189.6
57.5°	259.7	243.4	229.9	216.1	203.8	194.1	185.1	180.2	176.1	172.9	168.4
60°	232.8	217.3	205.5	192.8	180.2	172.4	165.9	159.8	154.9	149.2	147.6
62.5°	204.2	191.2	180.6	168.4	157.8	150.8	144.7	139.0	132.9	123.9	121.5
65°	178.6	168.0	156.5	146.4	136.6	129.6	120.7	114.1	111.7	110.9	110.5
67.5°	154.9	144.7	134.9	124.3	115.4	107.6	102.3	101.5	99.9	99.5	98.2
70°	131.3	121.9	112.1	102.3	93.8	92.5	90.9	89.3	87.2	86.4	85.6
72.5°	110.1	100.3	90.5	83.2	80.7	79.1	77.5	75.8	74.6	73.8	73.4
75°	87.6	78.7	72.2	69.3	67.3	66.0	63.6	62.4	61.6	60.3	59.9
77.5°	66.9	61.2	57.9	56.3	53.8	52.6	51.0	49.7	48.5	48.5	47.7
80°	48.1	45.7	43.6	41.2	40.4	38.7	38.3	37.1	37.5	36.3	36.3
82.5°	34.7	31.4	29.8	28.9	28.1	26.9	26.5	26.1	26.1	25.3	25.3
85°	19.2	18.3	17.5	16.7	16.7	15.5	15.9	15.5	15.5	14.7	14.3
87.5°	7.7	7.3	6.5	6.5	6.5	6.1	6.1	5.7	5.7	5.7	5.3
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: P242409

CATALOG NUMBER: S122RDRP-S675D930-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1173.3	1173.3	1173.3	1173.3
2.5°	1115.0	1115.8	1114.6	1115.4
5°	1049.8	1044.9	1044.0	1042.8
7.5°	972.7	972.3	969.9	967.0
10°	898.9	896.9	896.5	893.6
12.5°	812.5	796.6	795.0	786.8
15°	706.5	704.0	695.9	690.6
17.5°	647.4	639.2	636.4	635.2
20°	590.7	583.4	582.2	581.3
22.5°	551.6	543.8	540.2	537.3
25°	505.9	503.1	501.4	500.6
27.5°	470.0	462.7	461.9	459.9
30°	440.3	438.2	435.4	432.9
32.5°	405.2	403.6	401.1	400.3
35°	381.2	375.5	373.0	369.4
37.5°	354.7	351.4	347.3	349.0
40°	322.9	320.8	320.0	319.6
42.5°	297.6	291.1	288.6	288.6
45°	271.9	266.6	262.9	263.4
47.5°	244.2	244.6	242.2	243.0
50°	225.4	223.0	221.4	221.8
52.5°	207.5	205.5	204.2	206.3
55°	187.5	185.1	184.7	184.3
57.5°	165.9	164.7	162.7	161.4
60°	142.3	139.0	134.9	134.5
62.5°	120.7	120.7	120.7	120.7
65°	109.7	109.3	109.7	110.1
67.5°	98.2	97.4	96.6	97.0
70°	84.8	84.4	84.0	84.0
72.5°	71.8	71.8	71.3	70.9
75°	59.5	58.7	58.7	58.7
77.5°	47.7	47.3	46.9	46.5
80°	35.9	35.5	35.1	35.1
82.5°	25.3	24.9	24.9	24.5
85°	14.7	15.1	14.7	15.5
87.5°	5.3	4.9	5.3	4.9
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242409
 CATALOG NUMBER: S122RDRP-S675D930-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	16.33	17.78	16.69	18.09	18.41	22.23	23.68	22.59	23.99	24.31
	3H	17.44	18.74	17.82	19.07	19.43	23.39	24.68	23.76	25.01	25.38
	4H	17.90	19.11	18.30	19.46	19.84	23.78	25.00	24.18	25.35	25.73
	6H	18.26	19.38	18.68	19.75	20.15	24.05	25.17	24.46	25.54	25.93
	8H	18.39	19.45	18.81	19.84	20.24	24.12	25.18	24.55	25.57	25.98
	12H	18.47	19.49	18.90	19.87	20.30	24.15	25.18	24.59	25.56	25.99
4H	2H	17.04	18.26	17.44	18.60	18.98	22.19	23.41	22.59	23.76	24.14
	3H	18.31	19.31	18.72	19.72	20.12	23.49	24.49	23.90	24.90	25.30
	4H	18.86	19.76	19.29	20.18	20.62	23.98	24.89	24.42	25.30	25.74
	6H	19.33	20.11	19.79	20.56	21.02	24.37	25.15	24.83	25.60	26.06
	8H	19.49	20.22	19.96	20.67	21.14	24.48	25.21	24.95	25.66	26.13
	12H	19.61	20.26	20.09	20.74	21.21	24.56	25.21	25.04	25.69	26.16
8H	4H	19.20	19.94	19.67	20.38	20.85	23.97	24.70	24.43	25.14	25.61
	6H	19.77	20.37	20.27	20.87	21.35	24.39	25.00	24.89	25.49	25.97
	8H	20.00	20.54	20.51	21.05	21.54	24.54	25.08	25.06	25.60	26.09
	12H	20.18	20.66	20.69	21.15	21.72	24.67	25.14	25.18	25.64	26.20
12H	4H	19.24	19.90	19.73	20.38	20.85	23.94	24.60	24.43	25.08	25.55
	6H	19.84	20.38	20.35	20.89	21.38	24.37	24.91	24.88	25.42	25.91
	8H	20.11	20.59	20.63	21.08	21.65	24.55	25.03	25.06	25.52	26.09