

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: P242935

Luminaire Tested: S125RDRP-S850D940-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P242935  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-32)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDRP-S850D940-X4F0-XX-UDD-A-W  
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER  
STANDARD LIGHT ENGINE  
Light Source: (92) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

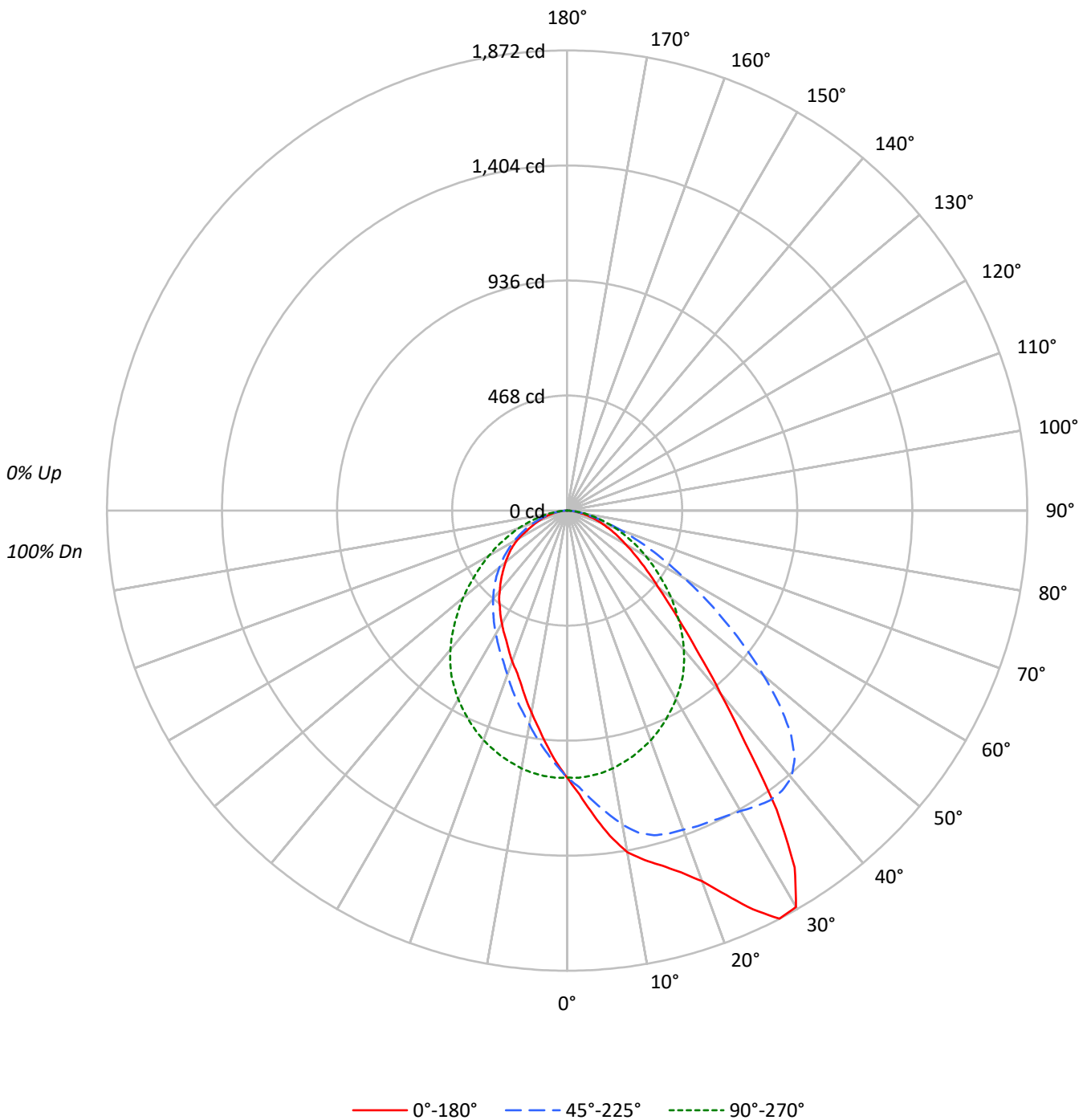
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2813.9 lumens  
Efficiency: N/A  
Efficacy: 106.6 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1.21 / 1.48  
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 26.4  
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	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	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86			86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73			73
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63			63
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55			55
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50	48			48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	42			42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37			37
8	63	50	42	36	61	49	42	36	48	41	36	47	40	36	46	40	35	34			34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30			30
10	55	42	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28			28

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

	0°	45°	90°	135°	180°
0°	7719	7719	7719	7719	7719
5°	8881	8442	7730	7023	6826
10°	10187	9363	7690	6383	6023
15°	11003	10061	7610	5862	5354
20°	12133	10447	7520	5381	4943
25°	14040	10926	7398	5031	4587
30°	15280	11584	7270	4753	4354
35°	12889	12486	7122	4533	4139
40°	9001	13162	6854	4343	3954
45°	6677	12950	6493	4163	3773
50°	5324	11540	6118	3968	3618
55°	4519	9690	5652	3768	3481
60°	3903	7852	5235	3537	3258
65°	3480	6268	4783	3276	2803
70°	3057	4809	4383	2974	2556
75°	2644	3586	3795	2644	2400
80°	2006	2574	3193	2353	2006
85°	1672	1819	2512	1998	1892

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 12950 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.1	3.7
10°-20°	305.3	10.9
20°-30°	484.1	17.2
30°-40°	585.0	20.8
40°-50°	520.9	18.5
50°-60°	399.4	14.2
60°-70°	259.4	9.2
70°-80°	125.9	4.5
80°-90°	29.6	1.1
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°	893.6	31.8
0°-40°	1478.6	52.5
0°-60°	2399.0	85.3
0°-90°	2813.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2813.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1086	1086	1086	1086	1086	
5°	1245	1183	1083	984	957	124
15°	1495	1367	1034	797	728	428
25°	1790	1393	943	642	585	824
35°	1486	1439	821	522	477	900
45°	664	1288	646	414	375	527
55°	365	782	456	304	281	330
65°	207	373	284	195	167	206
75°	96	131	138	96	87	102
85°	20	22	31	24	23	24
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°	1086.0	1086.0	1086.0	1086.0	1086.0	1086.0	1086.0	1086.0	1086.0	1086.0	1086.0
2.5°	1156.5	1155.6	1157.4	1152.5	1152.9	1145.3	1145.3	1139.5	1132.0	1126.2	1123.5
5°	1244.8	1245.6	1243.9	1237.2	1232.7	1226.0	1218.4	1205.1	1193.9	1183.2	1174.8
7.5°	1334.8	1335.7	1329.9	1328.6	1317.0	1309.8	1292.9	1275.5	1260.4	1240.3	1226.0
10°	1411.5	1411.0	1404.8	1399.9	1390.1	1377.6	1361.1	1339.7	1319.7	1297.4	1276.0
12.5°	1456.1	1454.7	1453.8	1447.6	1438.7	1428.0	1414.6	1393.7	1367.8	1342.8	1317.0
15°	1495.3	1492.2	1486.4	1478.8	1465.9	1453.0	1437.4	1418.6	1395.0	1367.4	1344.2
17.5°	1542.6	1543.0	1534.1	1526.1	1509.1	1487.7	1464.5	1436.0	1405.7	1377.6	1354.4
20°	1604.1	1602.8	1593.8	1573.3	1553.3	1524.7	1497.1	1460.1	1420.9	1381.2	1350.4
22.5°	1692.4	1688.4	1679.0	1650.5	1616.6	1577.8	1531.9	1484.6	1435.1	1388.8	1346.0
25°	1790.4	1787.8	1769.5	1738.3	1694.6	1638.0	1582.7	1520.7	1452.5	1393.2	1344.2
27.5°	1871.6	1866.2	1849.7	1820.3	1777.5	1716.4	1640.2	1560.0	1478.8	1400.8	1333.5
30°	1861.8	1868.5	1866.7	1854.6	1824.3	1770.8	1701.7	1608.5	1507.3	1411.5	1327.2
32.5°	1721.8	1727.6	1747.6	1780.2	1790.0	1776.6	1729.4	1645.1	1539.4	1427.1	1322.3
35°	1485.5	1493.5	1523.8	1571.5	1634.0	1686.1	1696.8	1650.5	1556.4	1439.1	1317.4
37.5°	1185.0	1237.2	1257.7	1306.3	1404.4	1499.3	1581.8	1600.5	1549.7	1436.5	1311.6
40°	970.1	980.8	1026.3	1082.9	1162.3	1262.1	1393.7	1488.6	1491.7	1418.6	1292.9
42.5°	795.4	809.6	837.3	879.6	944.7	1044.6	1181.4	1314.3	1386.1	1369.6	1268.4
45°	664.3	674.5	697.3	732.1	784.2	866.7	983.5	1128.4	1243.4	1288.4	1220.7
47.5°	561.7	567.1	588.0	616.1	656.3	718.7	813.6	944.7	1081.6	1173.0	1155.1
50°	481.5	487.7	502.9	523.0	555.5	606.3	678.6	783.3	925.5	1043.7	1067.3
52.5°	419.1	424.0	432.0	450.7	476.1	512.3	567.1	659.4	783.8	911.3	973.7
55°	364.7	368.3	375.8	386.5	407.9	436.0	486.4	551.9	655.4	782.0	862.2
57.5°	318.3	320.1	324.6	335.3	350.9	371.8	410.2	469.9	544.8	663.8	752.1
60°	274.6	276.4	282.7	289.3	300.9	319.7	348.2	387.0	458.3	552.4	642.0
62.5°	239.9	240.7	242.5	249.2	259.0	272.4	293.4	323.2	376.3	456.1	539.5
65°	206.9	207.3	208.2	213.6	219.8	230.5	245.2	267.5	310.3	372.7	447.6
67.5°	173.9	174.8	177.9	179.7	187.2	192.6	202.0	219.8	252.8	297.4	358.0
70°	147.1	146.7	149.8	152.0	154.3	160.9	166.7	180.6	199.3	231.4	280.0
72.5°	122.2	120.8	121.7	122.2	125.3	129.3	135.1	142.2	155.6	175.2	209.5
75°	96.3	96.7	96.7	97.6	99.9	101.6	103.4	107.9	115.9	130.6	150.7
77.5°	72.2	71.3	73.6	73.6	75.3	77.6	78.9	80.7	83.8	90.5	102.5
80°	49.0	49.0	49.5	50.8	50.4	51.3	53.5	55.3	59.3	62.9	66.4
82.5°	34.8	34.3	34.8	34.8	34.8	35.7	36.1	36.1	37.0	38.3	40.6
85°	20.5	20.5	21.0	21.0	21.4	21.4	21.8	21.8	21.8	22.3	22.7
87.5°	9.8	9.4	8.9	8.9	9.4	10.3	9.8	9.4	9.4	9.4	9.8
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°	1086.0	1086.0	1086.0	1086.0	1086.0	1086.0	1086.0	1086.0	1086.0	1086.0	1086.0
2.5°	1123.5	1120.4	1114.6	1109.2	1102.5	1096.7	1092.7	1087.8	1081.6	1074.0	1067.8
5°	1165.4	1155.6	1142.7	1131.5	1117.2	1106.1	1094.5	1083.4	1072.2	1058.0	1045.5
7.5°	1211.8	1192.6	1174.8	1151.6	1130.6	1112.3	1094.5	1076.2	1058.8	1039.2	1020.9
10°	1253.7	1229.1	1202.0	1170.7	1142.2	1115.0	1090.1	1065.5	1039.7	1016.9	992.4
12.5°	1292.9	1259.5	1227.4	1185.9	1150.2	1115.5	1082.0	1049.9	1021.8	990.6	963.9
15°	1313.4	1282.2	1247.4	1199.3	1151.6	1111.5	1074.0	1034.3	1000.0	967.0	937.6
17.5°	1325.4	1292.5	1252.3	1205.5	1154.3	1104.3	1057.1	1014.7	975.5	937.6	905.0
20°	1320.1	1288.4	1247.0	1202.8	1147.1	1094.5	1042.3	994.2	949.2	908.6	873.4
22.5°	1307.2	1274.2	1234.5	1187.2	1135.1	1078.5	1021.8	969.7	922.0	879.6	840.4
25°	1294.2	1249.7	1208.6	1163.2	1112.8	1057.5	1000.0	943.4	893.0	850.2	808.3
27.5°	1281.8	1227.8	1177.0	1133.3	1079.4	1029.4	973.2	914.8	862.2	819.0	776.2
30°	1263.5	1201.1	1143.6	1092.3	1041.9	995.1	942.5	885.9	831.5	786.4	742.8
32.5°	1240.7	1173.4	1108.8	1047.7	999.5	953.2	906.8	853.3	800.7	753.9	709.3
35°	1222.5	1137.8	1069.1	1006.2	952.3	907.3	864.5	820.8	767.7	719.6	676.3
37.5°	1197.1	1103.9	1026.3	957.6	901.5	856.9	822.6	781.1	731.6	684.8	644.7
40°	1174.3	1066.4	979.5	911.7	852.0	804.3	772.6	738.7	694.6	651.4	611.2
42.5°	1144.0	1032.1	932.2	860.9	800.7	755.2	723.1	694.6	659.4	619.3	575.6
45°	1102.5	985.7	883.6	807.8	747.2	702.2	672.3	646.0	617.9	580.5	543.0
47.5°	1053.0	941.6	834.1	750.8	692.4	650.0	620.6	598.7	578.2	545.7	507.8
50°	991.1	884.5	780.2	700.0	636.6	597.0	569.8	553.3	535.0	506.0	475.7
52.5°	918.0	825.7	724.0	641.5	582.7	546.1	520.3	503.8	489.5	467.2	438.7
55°	840.4	757.0	663.4	588.9	534.1	496.7	471.7	456.1	447.2	427.1	404.4
57.5°	752.6	688.4	603.7	531.0	481.5	444.0	425.3	411.5	401.2	386.5	369.6
60°	659.8	617.9	543.9	475.7	431.1	395.9	379.4	368.3	358.9	346.9	334.4
62.5°	565.8	538.1	476.1	420.0	379.8	351.8	336.6	326.8	315.6	308.5	296.5
65°	483.7	456.5	411.9	366.0	328.1	304.5	293.4	284.4	277.8	268.8	260.4
67.5°	392.8	380.3	347.3	313.0	285.3	262.6	252.8	245.7	238.1	232.7	226.5
70°	310.3	304.9	283.1	262.1	236.7	222.5	213.6	210.9	201.1	195.7	191.7
72.5°	237.2	235.4	225.1	212.2	196.2	184.1	176.1	173.0	167.6	163.6	161.4
75°	172.5	173.4	171.2	161.8	155.1	147.1	140.0	138.2	133.7	130.2	128.0
77.5°	117.7	122.2	121.3	120.8	117.7	111.9	108.8	107.4	102.5	101.2	100.8
80°	74.9	79.8	84.3	83.8	82.9	81.6	79.4	78.0	75.8	74.5	73.6
82.5°	43.7	48.1	51.7	54.8	54.8	53.5	52.2	51.7	51.7	50.8	50.8
85°	23.6	24.5	25.9	29.0	31.2	31.7	31.2	30.8	29.4	29.9	30.3
87.5°	10.3	10.3	10.7	10.7	10.3	12.5	13.8	14.3	13.4	12.5	11.6
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°	1086.0	1086.0	1086.0	1086.0	1086.0	1086.0	1086.0	1086.0	1086.0	1086.0	1086.0
2.5°	1063.3	1057.1	1052.6	1043.7	1037.4	1034.8	1029.9	1028.5	1033.4	1029.9	1029.4
5°	1036.1	1023.2	1012.9	1002.7	991.5	984.4	973.7	971.9	969.2	965.2	964.3
7.5°	1004.5	988.4	976.4	959.4	945.6	934.5	921.1	915.7	913.1	908.2	900.1
10°	972.4	952.3	934.5	917.5	899.2	884.5	871.1	860.9	854.2	848.0	845.3
12.5°	940.7	920.2	896.1	874.7	853.8	836.8	821.7	815.9	808.3	800.7	793.6
15°	907.7	880.5	855.5	831.9	814.5	796.7	782.4	772.6	761.5	758.4	746.3
17.5°	872.5	847.1	817.6	792.2	772.6	753.9	738.3	726.7	718.2	706.2	700.4
20°	839.9	808.3	779.8	757.0	734.7	711.5	695.5	686.1	678.1	668.7	664.3
22.5°	805.2	774.4	745.0	717.3	694.6	671.9	661.6	651.8	642.4	634.0	627.7
25°	771.3	740.1	709.3	681.7	658.0	641.5	628.2	617.0	612.1	603.7	597.4
27.5°	737.4	704.4	673.2	644.2	625.9	609.4	598.7	589.8	580.5	572.9	567.1
30°	704.9	671.0	636.2	614.4	594.7	579.1	567.1	558.6	551.9	545.2	541.2
32.5°	672.3	637.1	607.2	583.1	564.9	551.9	539.5	531.4	524.3	516.7	511.8
35°	637.1	601.4	576.5	553.3	535.0	522.5	514.0	502.4	496.7	491.3	486.4
37.5°	605.4	571.6	543.9	523.8	506.9	494.9	483.7	477.9	470.3	465.9	461.9
40°	569.8	539.5	514.9	493.5	481.9	468.1	457.9	449.8	444.5	438.2	433.8
42.5°	537.7	510.0	486.4	467.7	452.5	441.4	431.6	423.5	416.4	412.4	408.8
45°	507.8	479.7	456.5	438.7	425.3	414.2	403.9	399.9	391.0	385.6	383.9
47.5°	476.6	451.2	428.4	411.9	398.1	387.9	378.1	369.1	364.7	359.3	356.7
50°	444.9	420.9	399.9	383.9	370.5	358.9	350.0	344.6	337.9	333.0	329.5
52.5°	413.3	391.4	370.5	355.3	344.2	332.6	322.3	317.0	310.7	308.1	305.8
55°	383.4	359.8	342.0	326.8	314.8	304.1	294.7	289.3	285.3	282.2	281.3
57.5°	349.1	329.9	313.0	299.6	286.7	276.4	267.9	263.0	259.5	259.0	255.9
60°	315.6	298.7	283.5	268.8	258.1	248.8	241.6	235.8	232.3	231.8	230.9
62.5°	282.2	266.2	252.3	239.9	230.5	221.6	214.9	208.2	206.4	203.7	201.5
65°	249.2	234.5	222.9	212.7	202.4	194.8	188.1	184.1	179.2	176.5	171.6
67.5°	216.7	204.6	193.5	185.0	176.5	169.0	163.2	157.4	153.8	151.6	147.6
70°	184.6	175.7	164.5	155.1	148.9	143.1	138.7	132.0	129.7	128.0	126.2
72.5°	154.3	146.7	137.8	130.6	124.4	119.0	113.7	111.5	109.2	107.4	106.6
75°	126.2	118.6	110.6	105.2	100.8	96.3	93.6	91.4	90.5	90.1	88.3
77.5°	98.1	93.6	86.9	82.0	78.9	77.1	74.5	73.6	74.0	71.8	71.3
80°	70.9	68.7	63.3	61.5	59.3	57.5	56.2	53.9	51.7	50.8	49.5
82.5°	48.1	45.9	44.6	41.5	39.7	38.8	37.4	37.0	37.9	36.6	36.1
85°	28.1	25.9	25.0	24.5	23.6	24.5	24.1	23.6	23.2	22.7	23.2
87.5°	11.1	11.1	10.7	11.6	10.3	10.7	10.7	10.3	10.3	10.3	9.8
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: P242935

CATALOG NUMBER: S125RDRP-S850D940-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1086.0	1086.0	1086.0	1086.0
2.5°	1029.0	1024.1	1022.7	1024.5
5°	959.9	955.4	957.6	956.7
7.5°	901.5	895.7	889.0	890.8
10°	839.5	835.0	832.4	834.6
12.5°	787.3	785.1	782.9	781.1
15°	741.0	735.6	733.4	727.6
17.5°	696.4	694.6	688.8	684.8
20°	657.6	655.8	650.0	653.6
22.5°	625.5	621.0	620.1	617.9
25°	595.6	589.8	587.6	584.9
27.5°	565.3	562.2	559.1	558.2
30°	535.9	532.8	530.5	530.5
32.5°	509.6	507.4	505.1	504.7
35°	484.2	480.6	479.7	477.0
37.5°	457.4	454.3	454.3	454.7
40°	432.0	429.8	429.3	426.2
42.5°	404.8	403.9	402.1	401.2
45°	380.7	377.6	377.6	375.4
47.5°	355.3	352.7	353.1	350.4
50°	329.9	328.6	328.1	327.2
52.5°	304.5	304.1	306.3	304.1
55°	282.2	280.9	283.5	280.9
57.5°	255.9	255.0	257.7	255.9
60°	230.0	227.4	228.7	229.2
62.5°	199.3	197.9	198.8	196.2
65°	170.8	169.4	167.6	166.7
67.5°	148.5	144.4	144.4	145.3
70°	123.5	123.5	123.0	123.0
72.5°	106.1	105.7	104.8	104.3
75°	88.3	88.7	87.8	87.4
77.5°	69.1	66.9	67.8	66.9
80°	49.5	49.0	50.4	49.0
82.5°	36.6	36.1	36.6	35.7
85°	23.6	23.2	22.7	23.2
87.5°	10.3	9.8	9.8	9.8
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242935  
 CATALOG NUMBER: S125RDRP-S850D940-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	16.72	18.26	17.09	18.57	18.89	17.70	19.24	18.07	19.55	19.87
	3H	17.85	19.23	18.23	19.56	19.92	19.18	20.56	19.56	20.89	21.25
	4H	18.24	19.53	18.64	19.88	20.25	19.69	20.99	20.09	21.33	21.71
	6H	18.47	19.66	18.88	20.03	20.42	20.04	21.24	20.46	21.60	21.99
	8H	18.52	19.66	18.95	20.05	20.45	20.14	21.28	20.57	21.67	22.07
	12H	18.56	19.64	18.99	20.03	20.46	20.20	21.28	20.63	21.66	22.09
4H	2H	18.31	19.60	18.71	19.95	20.33	18.55	19.84	18.95	20.19	20.57
	3H	19.38	20.45	19.79	20.85	21.25	20.21	21.28	20.62	21.68	22.08
	4H	19.76	20.73	20.20	21.14	21.58	20.80	21.76	21.23	22.18	22.62
	6H	20.02	20.86	20.48	21.30	21.76	21.23	22.06	21.68	22.51	22.97
	8H	20.08	20.86	20.54	21.31	21.77	21.35	22.13	21.81	22.57	23.04
	12H	20.13	20.82	20.61	21.30	21.77	21.43	22.13	21.91	22.61	23.08
8H	4H	20.14	20.92	20.60	21.36	21.83	20.95	21.73	21.41	22.17	22.64
	6H	20.44	21.09	20.94	21.58	22.06	21.46	22.11	21.96	22.60	23.08
	8H	20.54	21.12	21.05	21.62	22.11	21.64	22.22	22.15	22.73	23.22
	12H	20.62	21.13	21.13	21.62	22.18	21.77	22.29	22.28	22.78	23.34
12H	4H	20.16	20.86	20.65	21.34	21.81	20.94	21.64	21.42	22.11	22.58
	6H	20.48	21.06	20.99	21.57	22.05	21.45	22.04	21.97	22.54	23.03
	8H	20.61	21.12	21.12	21.61	22.18	21.67	22.18	22.18	22.68	23.24