

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: P243790

Luminaire Tested: S125RDRP-H850D935-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P243790  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-71)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDRP-H850D935-X4F0-XX-UDD-A-W  
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: (184) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

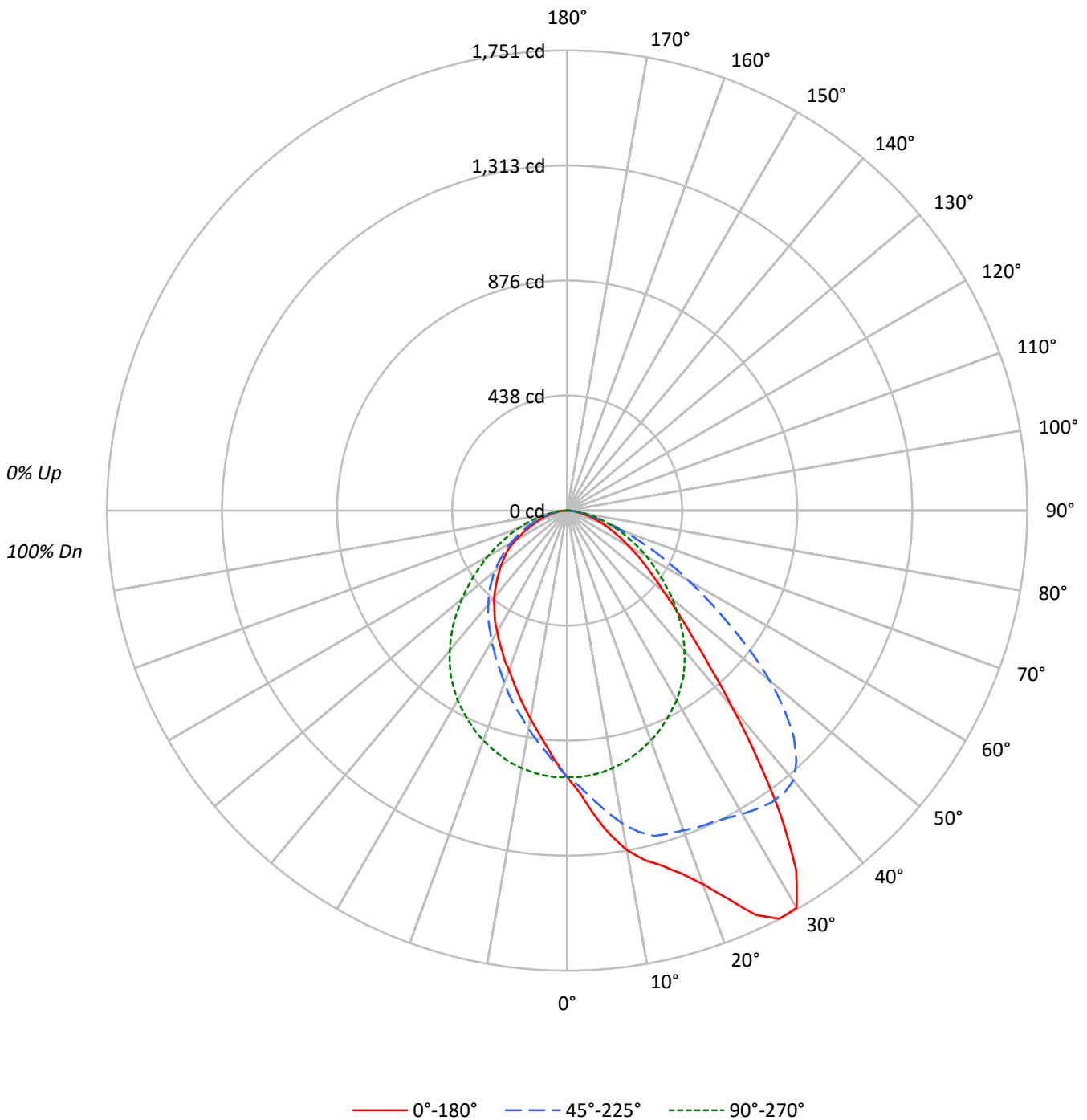
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2697.8 lumens  
Efficiency: N/A  
Efficacy: 114.3 lumens/watt  
Spacing Criteria (0/90/45): 1.42 / 1.22 / 1.5  
Luminous Opening: Rectangular (W 3.88' x L: 0.39' 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	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	
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75				73	
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65				63	
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56				54	
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50				48	
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44				42	
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39				37	
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35				33	
9	59	46	38	32	57	45	38	32	44	37	32	43	37	32	42	36	32				30	
10	55	42	35	29	54	42	34	29	41	34	29	40	34	29	39	33	29				27	

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

	0°	45°	90°	135°	180°
0°	7205	7205	7205	7205	7205
5°	8270	7857	7215	6578	6417
10°	9462	8717	7179	6089	5802
15°	10292	9432	7122	5669	5306
20°	11437	9792	7041	5278	4888
25°	13308	10257	6941	4974	4602
30°	14329	10935	6838	4717	4368
35°	12310	11763	6685	4513	4178
40°	9069	12429	6444	4329	4005
45°	6698	12262	6144	4169	3797
50°	5306	11128	5777	3995	3644
55°	4482	9289	5354	3751	3507
60°	3862	7588	4960	3520	3245
65°	3353	6125	4515	3231	2825
70°	2940	4653	4135	2924	2473
75°	2493	3389	3619	2584	2340
80°	1940	2452	3029	2272	1940
85°	1704	1802	2422	1933	1770

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 12262 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.6	3.6
10°-20°	288.7	10.7
20°-30°	460.4	17.1
30°-40°	559.0	20.7
40°-50°	503.7	18.7
50°-60°	387.4	14.4
60°-70°	251.4	9.3
70°-80°	121.0	4.5
80°-90°	28.6	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°	846.7	31.4
0°-40°	1405.7	52.1
0°-60°	2296.8	85.1
0°-90°	2697.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2697.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1014	1014	1014	1014	1014	
5°	1159	1101	1011	922	900	115
15°	1399	1282	968	770	721	401
25°	1697	1308	885	634	587	776
35°	1419	1356	770	520	482	868
45°	666	1220	611	415	378	529
55°	362	750	432	303	283	328
65°	199	364	268	192	168	200
75°	91	123	132	94	85	98
85°	21	22	30	24	22	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°	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7
2.5°	1072.4	1076.4	1073.2	1075.2	1072.0	1070.4	1066.3	1060.3	1054.3	1048.6	1048.2
5°	1159.2	1158.4	1155.2	1150.7	1147.5	1139.5	1135.5	1121.8	1112.6	1101.3	1095.7
7.5°	1242.0	1240.0	1235.1	1229.1	1226.3	1215.9	1204.6	1187.3	1172.8	1155.2	1141.9
10°	1311.1	1310.7	1307.1	1303.1	1292.2	1280.6	1269.7	1251.6	1229.9	1207.8	1189.3
12.5°	1361.8	1359.7	1355.3	1348.5	1339.6	1331.6	1317.1	1300.7	1274.1	1251.6	1226.3
15°	1398.7	1397.9	1391.5	1389.1	1371.8	1360.5	1341.3	1324.8	1304.3	1281.8	1254.4
17.5°	1447.8	1449.4	1443.7	1430.1	1414.4	1397.1	1369.8	1342.9	1314.3	1288.2	1266.1
20°	1512.1	1508.1	1498.4	1481.9	1453.8	1432.5	1405.2	1371.8	1333.2	1294.6	1262.9
22.5°	1598.1	1593.7	1578.4	1558.3	1522.9	1483.9	1442.1	1392.3	1348.1	1303.9	1262.1
25°	1697.0	1688.5	1666.0	1644.3	1594.1	1552.7	1490.4	1430.9	1366.6	1307.9	1260.9
27.5°	1750.8	1750.8	1740.4	1716.7	1676.9	1615.8	1552.3	1473.1	1398.7	1318.3	1251.6
30°	1746.0	1743.2	1747.2	1737.2	1711.4	1665.6	1602.5	1519.3	1424.5	1332.4	1252.4
32.5°	1621.4	1622.6	1646.7	1663.2	1676.1	1664.8	1623.8	1548.7	1454.2	1346.1	1249.2
35°	1418.8	1422.0	1464.6	1492.8	1550.3	1583.2	1592.9	1552.3	1467.5	1355.7	1243.6
37.5°	1187.3	1187.3	1236.8	1279.4	1343.7	1424.9	1485.5	1500.8	1459.4	1355.3	1238.8
40°	977.5	976.3	1015.3	1067.5	1136.3	1225.9	1316.3	1393.9	1404.0	1339.6	1221.9
42.5°	799.8	797.8	840.4	869.4	941.7	1021.7	1141.9	1251.6	1314.3	1291.0	1197.0
45°	666.4	664.8	692.5	725.5	776.5	859.7	960.6	1082.4	1187.7	1219.9	1150.3
47.5°	565.9	566.7	581.6	609.3	652.7	712.2	802.7	915.6	1045.8	1120.2	1091.7
50°	479.9	482.7	494.0	514.9	546.6	594.5	672.0	774.1	908.0	1006.4	1012.5
52.5°	415.6	419.6	431.7	442.9	469.5	503.2	563.5	651.9	762.5	880.6	922.8
55°	361.7	363.8	370.6	382.6	402.3	430.5	474.3	541.8	644.3	749.6	824.0
57.5°	316.7	316.7	321.1	329.6	345.3	370.6	399.9	455.8	542.2	637.5	716.6
60°	271.7	273.3	276.5	285.8	296.2	315.5	344.1	379.4	454.2	533.8	619.0
62.5°	233.9	236.7	240.0	244.4	254.0	267.7	287.8	320.3	370.6	444.1	520.1
65°	199.4	202.2	202.6	207.8	214.2	225.5	240.8	264.5	306.3	364.2	426.9
67.5°	168.8	170.0	171.2	175.2	181.3	188.5	198.6	216.2	249.2	288.2	349.3
70°	141.5	142.3	142.7	147.1	149.9	156.4	161.6	172.8	193.7	223.9	271.3
72.5°	115.8	114.6	114.1	117.8	119.0	124.2	130.6	138.7	149.9	171.2	206.6
75°	90.8	91.2	91.6	93.7	94.1	96.5	100.5	105.7	110.9	123.4	145.9
77.5°	69.9	68.3	68.3	70.7	71.5	71.9	74.8	77.6	80.4	87.6	96.5
80°	47.4	48.2	48.2	48.2	48.6	49.4	51.0	53.5	55.5	59.9	61.5
82.5°	33.8	33.8	33.4	34.2	34.6	35.0	35.0	35.0	36.2	37.4	39.0
85°	20.9	21.3	20.1	20.9	21.3	21.3	21.3	21.3	22.5	22.1	22.5
87.5°	8.8	9.2	9.2	9.6	9.6	10.0	9.6	10.0	9.6	9.6	10.0
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°	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7
2.5°	1047.0	1042.2	1039.8	1035.0	1028.6	1024.5	1020.5	1014.9	1010.5	1003.6	997.6
5°	1085.6	1076.0	1067.1	1055.1	1043.4	1033.4	1022.9	1011.3	1000.8	989.2	976.7
7.5°	1128.6	1113.4	1094.9	1073.6	1055.5	1039.8	1022.1	1004.8	989.2	970.7	953.8
10°	1170.0	1145.5	1121.0	1092.5	1065.9	1042.6	1018.9	994.8	974.3	951.4	930.5
12.5°	1202.2	1178.9	1142.3	1106.9	1072.4	1042.2	1012.5	983.1	956.2	930.9	906.0
15°	1230.3	1191.7	1160.8	1122.2	1080.0	1039.0	1002.0	967.9	935.3	905.6	880.2
17.5°	1238.4	1203.8	1170.0	1125.0	1079.6	1033.0	990.4	949.8	913.6	880.6	852.1
20°	1237.6	1202.6	1166.0	1123.0	1074.8	1023.7	976.3	930.9	889.9	852.1	821.6
22.5°	1225.5	1191.7	1154.8	1111.3	1062.3	1009.7	959.8	909.6	865.0	825.6	794.2
25°	1212.6	1170.0	1131.4	1087.6	1041.0	992.4	939.3	885.1	838.4	797.4	762.1
27.5°	1201.4	1150.3	1102.9	1059.9	1012.1	968.3	915.6	858.9	811.1	768.1	731.5
30°	1183.3	1129.4	1072.0	1024.9	978.7	932.9	884.7	833.2	781.0	737.1	700.6
32.5°	1167.6	1099.7	1037.4	984.3	938.1	897.9	851.7	802.3	751.2	709.4	670.0
35°	1150.3	1069.1	1004.0	941.7	895.5	851.7	815.1	770.5	719.9	675.7	640.3
37.5°	1129.8	1037.8	963.0	899.5	851.7	806.7	773.7	733.9	688.1	644.3	609.3
40°	1106.9	1005.6	919.6	854.1	802.7	757.6	729.9	694.5	655.6	612.1	579.6
42.5°	1078.0	971.5	880.2	808.7	751.6	711.0	683.3	653.9	618.2	580.4	545.0
45°	1041.4	928.9	833.2	757.6	701.4	662.0	633.0	611.3	582.8	547.4	514.1
47.5°	996.8	884.3	785.0	706.6	652.3	614.6	587.6	565.9	544.2	513.7	481.9
50°	937.7	833.2	738.0	658.0	600.5	563.9	539.8	522.5	502.8	477.9	449.0
52.5°	872.6	775.7	682.5	607.7	552.3	515.7	490.8	476.3	461.4	440.9	416.0
55°	797.0	718.3	629.4	556.3	502.0	465.8	446.1	432.1	419.6	403.9	383.0
57.5°	717.1	647.9	570.7	503.2	452.2	418.0	400.7	389.1	378.6	367.4	350.1
60°	633.0	584.0	510.9	449.0	404.3	376.2	359.7	348.9	339.2	330.0	317.1
62.5°	545.4	504.8	450.2	397.5	357.7	331.2	319.1	309.9	299.8	291.8	282.6
65°	456.6	433.3	395.5	346.1	309.5	287.8	276.1	268.5	263.7	254.4	247.2
67.5°	375.8	362.9	330.8	297.4	269.3	249.6	238.7	233.1	227.9	223.5	215.4
70°	299.0	289.8	271.3	247.6	225.5	208.6	200.6	199.0	191.7	187.3	183.3
72.5°	227.9	225.5	210.2	199.8	187.3	174.0	168.0	164.8	160.0	156.0	154.3
75°	162.0	165.6	160.8	155.5	149.5	138.7	133.4	131.8	127.4	126.2	124.2
77.5°	110.5	115.8	117.4	115.0	112.1	108.5	104.9	103.3	98.9	98.1	96.9
80°	69.5	77.2	80.0	79.6	78.4	78.8	74.4	74.0	71.9	70.7	71.9
82.5°	42.2	46.2	51.4	52.7	51.0	51.8	50.6	49.0	49.0	49.8	48.2
85°	22.9	23.3	25.7	27.3	29.3	30.9	29.3	29.7	29.3	29.3	28.1
87.5°	10.0	10.5	10.5	10.0	10.9	11.7	13.3	14.1	13.7	12.5	10.9
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7
2.5°	992.8	990.0	985.1	981.1	971.9	965.4	964.6	965.0	964.2	963.4	963.0
5°	968.7	959.4	950.6	942.9	932.5	922.0	917.2	915.2	914.4	910.0	912.4
7.5°	942.9	928.9	918.4	904.0	891.5	882.6	874.2	870.2	869.4	863.4	861.7
10°	915.6	898.7	883.0	868.6	856.1	843.7	833.6	830.0	825.2	820.3	813.1
12.5°	888.7	867.8	850.5	834.4	817.5	803.5	795.4	790.2	784.2	779.8	777.3
15°	856.5	838.8	817.5	800.3	783.0	770.5	759.7	750.0	744.4	740.8	730.7
17.5°	827.6	804.3	784.2	767.7	748.8	734.7	723.5	715.4	705.8	698.6	692.1
20°	796.6	772.5	754.0	734.3	715.0	697.8	683.7	677.3	670.4	663.6	660.0
22.5°	763.3	742.4	721.5	701.0	680.5	662.0	653.1	643.9	637.9	631.0	626.2
25°	734.3	711.4	690.5	667.6	645.1	634.3	622.2	612.9	608.1	601.3	596.1
27.5°	703.4	681.3	656.4	632.6	619.4	600.9	592.9	585.6	579.2	572.4	568.7
30°	674.4	648.7	623.8	605.3	588.0	574.8	567.1	558.3	549.4	546.2	541.4
32.5°	643.9	616.2	594.5	576.0	561.5	545.4	538.2	531.0	522.5	518.5	514.1
35°	612.1	585.2	563.9	547.0	532.2	520.1	512.1	504.4	499.2	493.2	490.0
37.5°	578.8	555.5	535.0	518.1	504.4	494.8	484.7	478.7	471.5	465.8	463.4
40°	547.0	526.1	506.4	490.8	478.3	466.6	457.8	450.2	445.7	440.9	436.9
42.5°	518.5	496.8	479.9	463.4	452.2	440.9	432.1	426.5	418.8	416.8	411.2
45°	487.9	467.9	451.0	435.7	424.0	414.8	404.3	397.5	392.7	387.9	385.9
47.5°	457.0	438.5	422.8	408.8	396.7	386.3	378.2	371.0	365.8	361.3	358.9
50°	426.9	410.8	395.1	381.4	369.0	361.3	351.7	343.7	339.6	334.8	332.0
52.5°	395.1	381.8	365.0	353.3	341.6	331.6	321.9	316.7	312.7	308.7	306.7
55°	365.4	351.3	336.8	324.4	313.1	302.7	295.0	291.0	285.8	283.4	283.0
57.5°	334.8	320.3	308.3	297.0	284.2	276.1	269.3	264.5	260.1	258.0	258.0
60°	301.5	289.8	278.5	266.1	256.8	247.6	240.4	237.1	232.7	231.9	229.1
62.5°	270.9	260.1	249.2	237.5	229.1	219.9	214.6	210.2	207.8	204.6	201.4
65°	239.2	229.5	219.1	209.0	202.2	192.1	187.3	182.1	179.3	175.6	171.6
67.5°	208.6	199.4	189.7	180.5	174.8	165.2	162.0	155.5	153.5	149.5	145.9
70°	176.4	170.0	162.4	153.1	148.3	140.7	137.5	131.4	128.2	125.8	123.8
72.5°	148.7	142.7	133.8	127.8	121.8	117.0	111.7	108.9	106.1	104.1	103.7
75°	121.4	113.7	108.5	102.9	98.9	94.1	91.6	89.6	88.4	87.2	86.0
77.5°	92.8	89.6	84.4	78.8	75.6	73.6	71.9	71.1	69.9	69.5	68.3
80°	69.1	64.7	61.5	59.5	57.1	55.5	54.3	51.4	49.8	49.0	48.2
82.5°	45.8	44.6	42.2	40.2	38.2	37.8	36.6	35.8	35.4	35.4	35.0
85°	27.7	24.5	24.5	24.1	24.1	23.7	22.9	22.9	22.1	23.3	23.3
87.5°	11.3	11.3	10.5	10.5	10.9	10.0	9.6	9.6	9.6	9.2	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

TEST NUMBER: P243790

CATALOG NUMBER: S125RDRP-H850D935-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1013.7	1013.7	1013.7	1013.7
2.5°	963.0	961.0	961.4	959.0
5°	908.0	906.8	902.7	899.5
7.5°	857.7	852.5	852.1	848.9
10°	810.7	805.9	803.5	803.9
12.5°	769.7	764.5	764.5	761.3
15°	725.9	720.7	721.5	721.1
17.5°	689.7	686.1	683.3	680.9
20°	654.3	649.9	648.3	646.3
22.5°	621.8	618.6	619.0	619.0
25°	590.8	591.2	587.6	586.8
27.5°	563.5	562.7	561.9	560.3
30°	537.8	534.6	533.8	532.2
32.5°	511.3	510.9	507.6	508.8
35°	484.3	483.1	482.3	481.5
37.5°	459.4	457.0	456.6	455.8
40°	434.1	433.3	429.7	431.7
42.5°	406.8	405.1	405.1	405.1
45°	383.8	379.4	379.4	377.8
47.5°	358.1	356.5	355.7	352.9
50°	332.8	330.4	329.6	329.6
52.5°	306.7	306.3	307.1	305.5
55°	283.8	284.2	283.8	283.0
57.5°	258.8	256.8	256.8	257.2
60°	229.1	229.1	229.9	228.3
62.5°	200.6	199.8	196.9	196.1
65°	171.2	168.0	167.6	168.0
67.5°	145.1	143.9	141.9	142.3
70°	122.6	122.2	120.2	119.0
72.5°	102.5	102.5	101.3	101.3
75°	85.6	84.8	84.4	85.2
77.5°	65.9	63.9	64.7	63.5
80°	47.8	48.6	47.8	47.4
82.5°	35.4	34.6	35.0	34.6
85°	22.5	21.7	22.1	21.7
87.5°	9.2	9.6	9.6	8.8
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243790  
 CATALOG NUMBER: S125RDRP-H850D935-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	16.78	18.32	17.15	18.64	18.95	17.48	19.02	17.85	19.33	19.65
	3H	17.87	19.25	18.24	19.57	19.94	18.96	20.34	19.33	20.67	21.03
	4H	18.22	19.52	18.62	19.87	20.25	19.48	20.78	19.88	21.12	21.50
	6H	18.44	19.64	18.85	20.00	20.40	19.84	21.03	20.25	21.40	21.79
	8H	18.50	19.64	18.92	20.03	20.43	19.94	21.08	20.36	21.47	21.87
	12H	18.53	19.62	18.96	20.01	20.43	20.00	21.09	20.43	21.47	21.90
4H	2H	18.30	19.60	18.70	19.95	20.33	18.35	19.65	18.75	20.00	20.37
	3H	19.35	20.42	19.76	20.82	21.22	20.01	21.09	20.42	21.49	21.89
	4H	19.71	20.68	20.14	21.09	21.53	20.61	21.58	21.04	21.99	22.43
	6H	19.95	20.79	20.41	21.24	21.70	21.05	21.89	21.50	22.33	22.79
	8H	20.02	20.80	20.48	21.25	21.71	21.17	21.95	21.63	22.40	22.87
	12H	20.06	20.77	20.55	21.24	21.71	21.25	21.95	21.74	22.43	22.90
8H	4H	20.07	20.86	20.53	21.30	21.77	20.76	21.55	21.23	21.99	22.46
	6H	20.36	21.01	20.86	21.50	21.98	21.29	21.94	21.78	22.43	22.90
	8H	20.46	21.04	20.97	21.55	22.04	21.46	22.05	21.98	22.56	23.04
	12H	20.54	21.06	21.05	21.55	22.11	21.60	22.12	22.11	22.61	23.17
12H	4H	20.10	20.80	20.58	21.27	21.75	20.75	21.46	21.24	21.93	22.41
	6H	20.40	20.98	20.91	21.49	21.98	21.28	21.86	21.79	22.37	22.86
	8H	20.53	21.04	21.04	21.54	22.10	21.50	22.01	22.01	22.50	23.07