

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: P242930

Luminaire Tested: S125RDRP-S850D935-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P242930  
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-S850D935-X4F0-XX-UDD-A-W  
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER  
STANDARD LIGHT ENGINE  
Light Source: (92) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

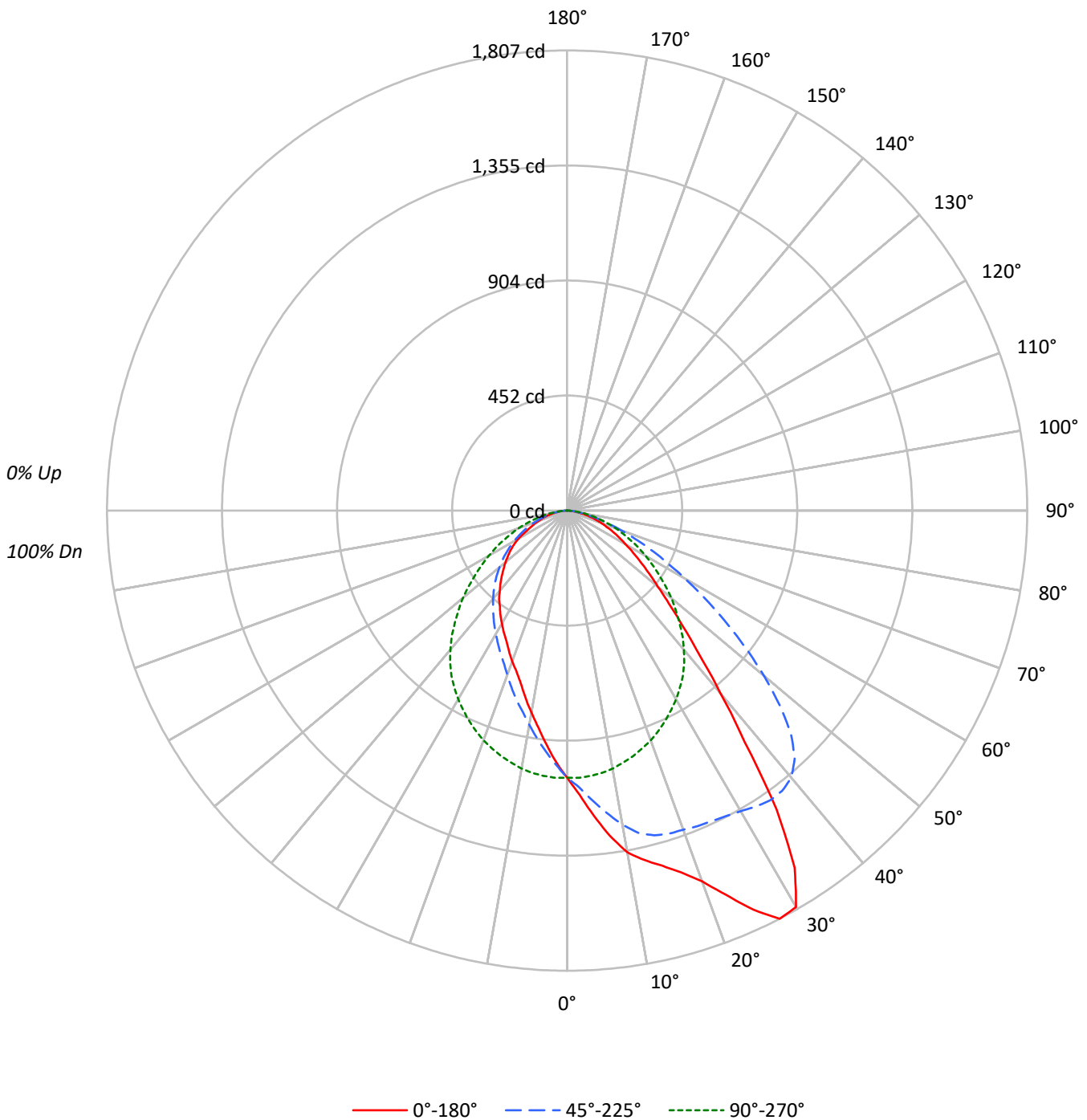
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2717.0 lumens  
Efficiency: N/A  
Efficacy: 102.9 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 (A<sub>in</sub>): 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	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°	7453	7453	7453	7453	7453
5°	8575	8151	7463	6781	6591
10°	9836	9041	7425	6164	5815
15°	10624	9715	7348	5661	5169
20°	11714	10087	7261	5196	4773
25°	13557	10549	7143	4858	4429
30°	14753	11185	7020	4589	4204
35°	12445	12057	6876	4377	3996
40°	8691	12709	6618	4194	3818
45°	6447	12505	6270	4020	3644
50°	5140	11142	5907	3831	3494
55°	4363	9357	5457	3638	3361
60°	3770	7582	5055	3414	3146
65°	3358	6053	4618	3163	2708
70°	2953	4642	4231	2872	2469
75°	2554	3463	3663	2554	2318
80°	1940	2484	3082	2272	1940
85°	1615	1753	2422	1933	1827

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 12505 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.6	3.7
10°-20°	294.8	10.9
20°-30°	467.4	17.2
30°-40°	564.9	20.8
40°-50°	503.0	18.5
50°-60°	385.7	14.2
60°-70°	250.5	9.2
70°-80°	121.5	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°	862.8	31.8
0°-40°	1427.7	52.5
0°-60°	2316.4	85.3
0°-90°	2717.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2717.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1049	1049	1049	1049	1049	
5°	1202	1142	1046	950	924	120
15°	1444	1320	999	769	702	413
25°	1729	1345	911	620	565	796
35°	1434	1390	792	504	461	869
45°	641	1244	624	400	362	509
55°	352	755	440	294	271	319
65°	200	360	275	188	161	198
75°	93	126	133	93	84	99
85°	20	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°	1048.6	1048.6	1048.6	1048.6	1048.6	1048.6	1048.6	1048.6	1048.6	1048.6	1048.6
2.5°	1116.7	1115.8	1117.5	1112.8	1113.2	1105.9	1105.9	1100.3	1093.0	1087.4	1084.8
5°	1201.9	1202.7	1201.0	1194.6	1190.3	1183.8	1176.5	1163.6	1152.8	1142.5	1134.3
7.5°	1288.8	1289.7	1284.1	1282.8	1271.6	1264.7	1248.4	1231.6	1217.0	1197.6	1183.8
10°	1362.9	1362.5	1356.4	1351.7	1342.2	1330.2	1314.2	1293.6	1274.2	1252.7	1232.0
12.5°	1405.9	1404.6	1403.8	1397.7	1389.1	1378.8	1365.9	1345.7	1320.7	1296.6	1271.6
15°	1443.8	1440.8	1435.2	1427.9	1415.4	1402.9	1387.8	1369.8	1347.0	1320.3	1297.9
17.5°	1489.4	1489.9	1481.3	1473.5	1457.2	1436.5	1414.1	1386.6	1357.3	1330.2	1307.8
20°	1548.8	1547.6	1538.9	1519.1	1499.8	1472.2	1445.5	1409.8	1371.9	1333.6	1303.9
22.5°	1634.1	1630.2	1621.2	1593.6	1560.9	1523.4	1479.1	1433.5	1385.7	1340.9	1299.6
25°	1728.8	1726.2	1708.6	1678.4	1636.2	1581.6	1528.2	1468.3	1402.5	1345.2	1297.9
27.5°	1807.1	1802.0	1786.0	1757.6	1716.3	1657.3	1583.7	1506.2	1427.9	1352.5	1287.5
30°	1797.7	1804.1	1802.4	1790.8	1761.5	1709.8	1643.1	1553.2	1455.4	1362.9	1281.5
32.5°	1662.5	1668.1	1687.5	1718.9	1728.4	1715.4	1669.8	1588.4	1486.4	1377.9	1276.8
35°	1434.3	1442.1	1471.4	1517.4	1577.7	1628.1	1638.4	1593.6	1502.8	1389.6	1272.1
37.5°	1144.2	1194.6	1214.4	1261.3	1356.0	1447.7	1527.3	1545.4	1496.3	1387.0	1266.5
40°	936.7	947.0	991.0	1045.6	1122.2	1218.7	1345.7	1437.4	1440.4	1369.8	1248.4
42.5°	768.0	781.7	808.4	849.3	912.2	1008.6	1140.8	1269.0	1338.3	1322.4	1224.7
45°	641.4	651.3	673.3	706.8	757.2	836.8	949.6	1089.5	1200.6	1244.1	1178.6
47.5°	542.4	547.6	567.8	594.9	633.7	693.9	785.6	912.2	1044.3	1132.6	1115.4
50°	464.9	470.9	485.6	504.9	536.4	585.4	655.2	756.3	893.7	1007.7	1030.6
52.5°	404.6	409.4	417.1	435.2	459.7	494.6	547.6	636.7	756.8	879.9	940.2
55°	352.1	355.6	362.9	373.2	393.9	421.0	469.6	532.9	632.8	755.1	832.5
57.5°	307.4	309.1	313.4	323.7	338.8	359.0	396.0	453.7	526.0	641.0	726.2
60°	265.2	266.9	272.9	279.4	290.6	308.7	336.2	373.7	442.5	533.4	619.9
62.5°	231.6	232.5	234.2	240.6	250.1	263.0	283.3	312.1	363.3	440.4	520.9
65°	199.7	200.2	201.0	206.2	212.2	222.6	236.8	258.3	299.6	359.9	432.2
67.5°	167.9	168.7	171.8	173.5	180.8	186.0	195.0	212.2	244.1	287.1	345.7
70°	142.1	141.6	144.6	146.8	148.9	155.4	161.0	174.3	192.4	223.4	270.3
72.5°	117.9	116.7	117.5	117.9	121.0	124.8	130.4	137.3	150.2	169.2	202.3
75°	93.0	93.4	93.4	94.3	96.4	98.1	99.9	104.2	111.9	126.1	145.5
77.5°	69.7	68.9	71.0	71.0	72.8	74.9	76.2	77.9	80.9	87.4	99.0
80°	47.4	47.4	47.8	49.1	48.6	49.5	51.7	53.4	57.3	60.7	64.1
82.5°	33.6	33.1	33.6	33.6	33.6	34.4	34.9	34.9	35.7	37.0	39.2
85°	19.8	19.8	20.2	20.2	20.7	20.7	21.1	21.1	21.1	21.5	22.0
87.5°	9.5	9.0	8.6	8.6	9.0	9.9	9.5	9.0	9.0	9.0	9.5
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°	1048.6	1048.6	1048.6	1048.6	1048.6	1048.6	1048.6	1048.6	1048.6	1048.6	1048.6
2.5°	1084.8	1081.8	1076.2	1071.0	1064.6	1059.0	1055.1	1050.4	1044.3	1037.0	1031.0
5°	1125.3	1115.8	1103.3	1092.5	1078.8	1068.0	1056.8	1046.1	1035.3	1021.5	1009.5
7.5°	1170.0	1151.5	1134.3	1111.9	1091.7	1074.0	1056.8	1039.2	1022.4	1003.4	985.8
10°	1210.5	1186.8	1160.6	1130.4	1102.9	1076.6	1052.5	1028.8	1003.9	981.9	958.2
12.5°	1248.4	1216.1	1185.1	1145.1	1110.6	1077.0	1044.8	1013.8	986.6	956.5	930.7
15°	1268.2	1238.0	1204.5	1158.0	1111.9	1073.2	1037.0	998.7	965.6	933.7	905.3
17.5°	1279.8	1247.9	1209.2	1164.0	1114.5	1066.3	1020.7	979.8	941.9	905.3	873.9
20°	1274.6	1244.1	1204.0	1161.4	1107.6	1056.8	1006.4	960.0	916.5	877.3	843.3
22.5°	1262.2	1230.3	1192.0	1146.4	1096.0	1041.3	986.6	936.3	890.2	849.3	811.4
25°	1249.7	1206.6	1167.0	1123.1	1074.5	1021.1	965.6	910.9	862.2	820.9	780.4
27.5°	1237.6	1185.5	1136.5	1094.3	1042.2	994.0	939.7	883.3	832.5	790.8	749.5
30°	1220.0	1159.7	1104.2	1054.7	1006.0	960.8	910.0	855.4	802.8	759.4	717.2
32.5°	1198.0	1133.0	1070.6	1011.6	965.1	920.4	875.6	823.9	773.1	727.9	684.9
35°	1180.4	1098.6	1032.3	971.6	919.5	876.0	834.7	792.5	741.3	694.8	653.0
37.5°	1155.8	1065.9	991.0	924.7	870.4	827.4	794.2	754.2	706.4	661.2	622.5
40°	1133.9	1029.7	945.8	880.3	822.6	776.6	746.0	713.3	670.7	628.9	590.2
42.5°	1104.6	996.5	900.1	831.2	773.1	729.2	698.2	670.7	636.7	597.9	555.7
45°	1064.6	951.8	853.2	780.0	721.5	678.0	649.2	623.8	596.6	560.5	524.3
47.5°	1016.8	909.2	805.4	724.9	668.5	627.6	599.2	578.1	558.3	526.9	490.3
50°	956.9	854.1	753.3	675.8	614.7	576.4	550.1	534.2	516.6	488.6	459.3
52.5°	886.3	797.2	699.1	619.5	562.6	527.3	502.4	486.4	472.7	451.1	423.6
55°	811.4	730.9	640.5	568.7	515.7	479.5	455.4	440.4	431.8	412.4	390.4
57.5°	726.6	664.7	582.9	512.7	464.9	428.8	410.7	397.3	387.4	373.2	356.9
60°	637.1	596.6	525.2	459.3	416.3	382.3	366.3	355.6	346.5	334.9	322.9
62.5°	546.3	519.6	459.7	405.5	366.8	339.6	325.0	315.5	304.8	297.9	286.3
65°	467.1	440.8	397.8	353.4	316.8	294.0	283.3	274.6	268.2	259.6	251.4
67.5°	379.2	367.2	335.3	302.2	275.5	253.5	244.1	237.2	229.9	224.7	218.7
70°	299.6	294.4	273.4	253.1	228.6	214.8	206.2	203.6	194.1	189.0	185.1
72.5°	229.0	227.3	217.4	204.9	189.4	177.8	170.0	167.0	161.9	158.0	155.8
75°	166.6	167.5	165.3	156.3	149.8	142.1	135.2	133.4	129.1	125.7	123.5
77.5°	113.6	117.9	117.1	116.7	113.6	108.0	105.0	103.7	99.0	97.7	97.3
80°	72.3	77.1	81.4	80.9	80.1	78.8	76.6	75.3	73.2	71.9	71.0
82.5°	42.2	46.5	49.9	52.9	52.9	51.7	50.4	49.9	49.9	49.1	49.1
85°	22.8	23.7	25.0	28.0	30.1	30.6	30.1	29.7	28.4	28.8	29.3
87.5°	9.9	9.9	10.3	10.3	9.9	12.1	13.3	13.8	12.9	12.1	11.2
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°	1048.6	1048.6	1048.6	1048.6	1048.6	1048.6	1048.6	1048.6	1048.6	1048.6	1048.6
2.5°	1026.7	1020.7	1016.3	1007.7	1001.7	999.1	994.4	993.1	997.8	994.4	994.0
5°	1000.4	987.9	978.0	968.1	957.4	950.5	940.2	938.4	935.9	932.0	931.1
7.5°	969.9	954.4	942.7	926.4	913.0	902.3	889.4	884.2	881.6	876.9	869.1
10°	938.9	919.5	902.3	885.9	868.3	854.1	841.1	831.2	824.8	818.8	816.2
12.5°	908.3	888.5	865.3	844.6	824.4	808.0	793.4	787.8	780.4	773.1	766.2
15°	876.4	850.2	826.1	803.3	786.5	769.3	755.5	746.0	735.2	732.2	720.6
17.5°	842.4	817.9	789.5	765.0	746.0	727.9	712.9	701.7	693.5	681.9	676.3
20°	811.0	780.4	752.9	730.9	709.4	687.0	671.5	662.5	654.8	645.7	641.4
22.5°	777.4	747.7	719.3	692.6	670.7	648.7	638.8	629.4	620.3	612.1	606.1
25°	744.7	714.6	684.9	658.2	635.4	619.5	606.5	595.8	591.0	582.9	576.8
27.5°	712.0	680.1	650.0	622.0	604.4	588.5	578.1	569.5	560.5	553.2	547.6
30°	680.6	647.9	614.3	593.2	574.3	559.2	547.6	539.4	532.9	526.5	522.6
32.5°	649.2	615.1	586.3	563.1	545.4	532.9	520.9	513.1	506.2	498.9	494.2
35°	615.1	580.7	556.6	534.2	516.6	504.5	496.3	485.1	479.5	474.4	469.6
37.5°	584.6	551.9	525.2	505.8	489.4	477.8	467.1	461.5	454.2	449.8	446.0
40°	550.1	520.9	497.2	476.5	465.3	452.0	442.1	434.3	429.2	423.2	418.9
42.5°	519.2	492.5	469.6	451.6	436.9	426.2	416.7	409.0	402.1	398.2	394.7
45°	490.3	463.2	440.8	423.6	410.7	399.9	390.0	386.1	377.5	372.4	370.6
47.5°	460.2	435.6	413.7	397.8	384.4	374.5	365.0	356.4	352.1	347.0	344.4
50°	429.6	406.4	386.1	370.6	357.7	346.5	337.9	332.8	326.3	321.6	318.1
52.5°	399.0	378.0	357.7	343.1	332.3	321.1	311.2	306.1	300.0	297.5	295.3
55°	370.2	347.4	330.2	315.5	303.9	293.6	284.5	279.4	275.5	272.5	271.6
57.5°	337.1	318.6	302.2	289.3	276.8	266.9	258.7	254.0	250.5	250.1	247.1
60°	304.8	288.4	273.8	259.6	249.2	240.2	233.3	227.7	224.3	223.8	223.0
62.5°	272.5	257.0	243.6	231.6	222.6	213.9	207.5	201.0	199.3	196.7	194.6
65°	240.6	226.4	215.2	205.3	195.4	188.1	181.7	177.8	173.1	170.5	165.7
67.5°	209.2	197.6	186.8	178.6	170.5	163.1	157.6	152.0	148.5	146.4	142.5
70°	178.2	169.6	158.8	149.8	143.8	138.2	133.9	127.4	125.3	123.5	121.8
72.5°	148.9	141.6	133.0	126.1	120.1	114.9	109.8	107.6	105.5	103.7	102.9
75°	121.8	114.5	106.8	101.6	97.3	93.0	90.4	88.2	87.4	87.0	85.2
77.5°	94.7	90.4	83.9	79.2	76.2	74.5	71.9	71.0	71.5	69.3	68.9
80°	68.4	66.3	61.1	59.4	57.3	55.5	54.2	52.1	49.9	49.1	47.8
82.5°	46.5	44.3	43.0	40.0	38.3	37.5	36.2	35.7	36.6	35.3	34.9
85°	27.1	25.0	24.1	23.7	22.8	23.7	23.2	22.8	22.4	22.0	22.4
87.5°	10.8	10.8	10.3	11.2	9.9	10.3	10.3	9.9	9.9	9.9	9.5
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: P242930

CATALOG NUMBER: S125RDRP-S850D935-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1048.6	1048.6	1048.6	1048.6
2.5°	993.5	988.8	987.5	989.2
5°	926.8	922.5	924.7	923.8
7.5°	870.4	864.8	858.4	860.1
10°	810.6	806.3	803.7	805.8
12.5°	760.2	758.1	755.9	754.2
15°	715.4	710.3	708.1	702.5
17.5°	672.4	670.7	665.1	661.2
20°	634.9	633.2	627.6	631.1
22.5°	604.0	599.7	598.8	596.6
25°	575.1	569.5	567.4	564.8
27.5°	545.8	542.8	539.8	539.0
30°	517.4	514.4	512.3	512.3
32.5°	492.0	489.9	487.7	487.3
35°	467.5	464.1	463.2	460.6
37.5°	441.7	438.7	438.7	439.1
40°	417.1	415.0	414.5	411.5
42.5°	390.9	390.0	388.3	387.4
45°	367.6	364.6	364.6	362.5
47.5°	343.1	340.5	340.9	338.4
50°	318.6	317.3	316.8	316.0
52.5°	294.0	293.6	295.7	293.6
55°	272.5	271.2	273.8	271.2
57.5°	247.1	246.2	248.8	247.1
60°	222.1	219.5	220.8	221.3
62.5°	192.4	191.1	192.0	189.4
65°	164.9	163.6	161.9	161.0
67.5°	143.3	139.5	139.5	140.3
70°	119.2	119.2	118.8	118.8
72.5°	102.5	102.0	101.2	100.7
75°	85.2	85.7	84.8	84.4
77.5°	66.7	64.6	65.4	64.6
80°	47.8	47.4	48.6	47.4
82.5°	35.3	34.9	35.3	34.4
85°	22.8	22.4	22.0	22.4
87.5°	9.9	9.5	9.5	9.5
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242930  
 CATALOG NUMBER: S125RDRP-S850D935-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	16.60	18.14	16.97	18.45	18.77	17.58	19.12	17.95	19.43	19.74
	3H	17.73	19.11	18.11	19.43	19.80	19.06	20.44	19.44	20.76	21.13
	4H	18.12	19.41	18.52	19.76	20.13	19.57	20.86	19.97	21.21	21.59
	6H	18.35	19.54	18.76	19.91	20.30	19.92	21.11	20.33	21.48	21.87
	8H	18.40	19.54	18.83	19.93	20.33	20.02	21.15	20.44	21.54	21.94
	12H	18.44	19.52	18.87	19.90	20.33	20.07	21.16	20.50	21.54	21.97
4H	2H	18.19	19.48	18.59	19.83	20.21	18.43	19.72	18.83	20.07	20.45
	3H	19.26	20.33	19.67	20.73	21.13	20.09	21.16	20.50	21.56	21.96
	4H	19.64	20.61	20.08	21.02	21.46	20.68	21.64	21.11	22.06	22.49
	6H	19.90	20.73	20.36	21.18	21.64	21.11	21.94	21.56	22.38	22.84
	8H	19.96	20.74	20.42	21.19	21.65	21.23	22.01	21.69	22.45	22.92
	12H	20.00	20.70	20.49	21.18	21.65	21.31	22.01	21.79	22.49	22.96
8H	4H	20.02	20.80	20.48	21.24	21.71	20.83	21.61	21.29	22.05	22.52
	6H	20.32	20.97	20.82	21.46	21.94	21.34	21.99	21.84	22.48	22.96
	8H	20.41	20.99	20.93	21.50	21.99	21.52	22.10	22.03	22.61	23.09
	12H	20.49	21.01	21.00	21.50	22.06	21.65	22.17	22.16	22.66	23.22
12H	4H	20.04	20.74	20.52	21.22	21.69	20.82	21.51	21.30	21.99	22.46
	6H	20.35	20.93	20.87	21.44	21.93	21.33	21.91	21.85	22.42	22.91
	8H	20.49	21.00	21.00	21.49	22.06	21.55	22.06	22.06	22.55	23.12