

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: P242910

Luminaire Tested: S125RDRP-S850D830-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242910
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-S850D830-X4F0-XX-UDD-A-W
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

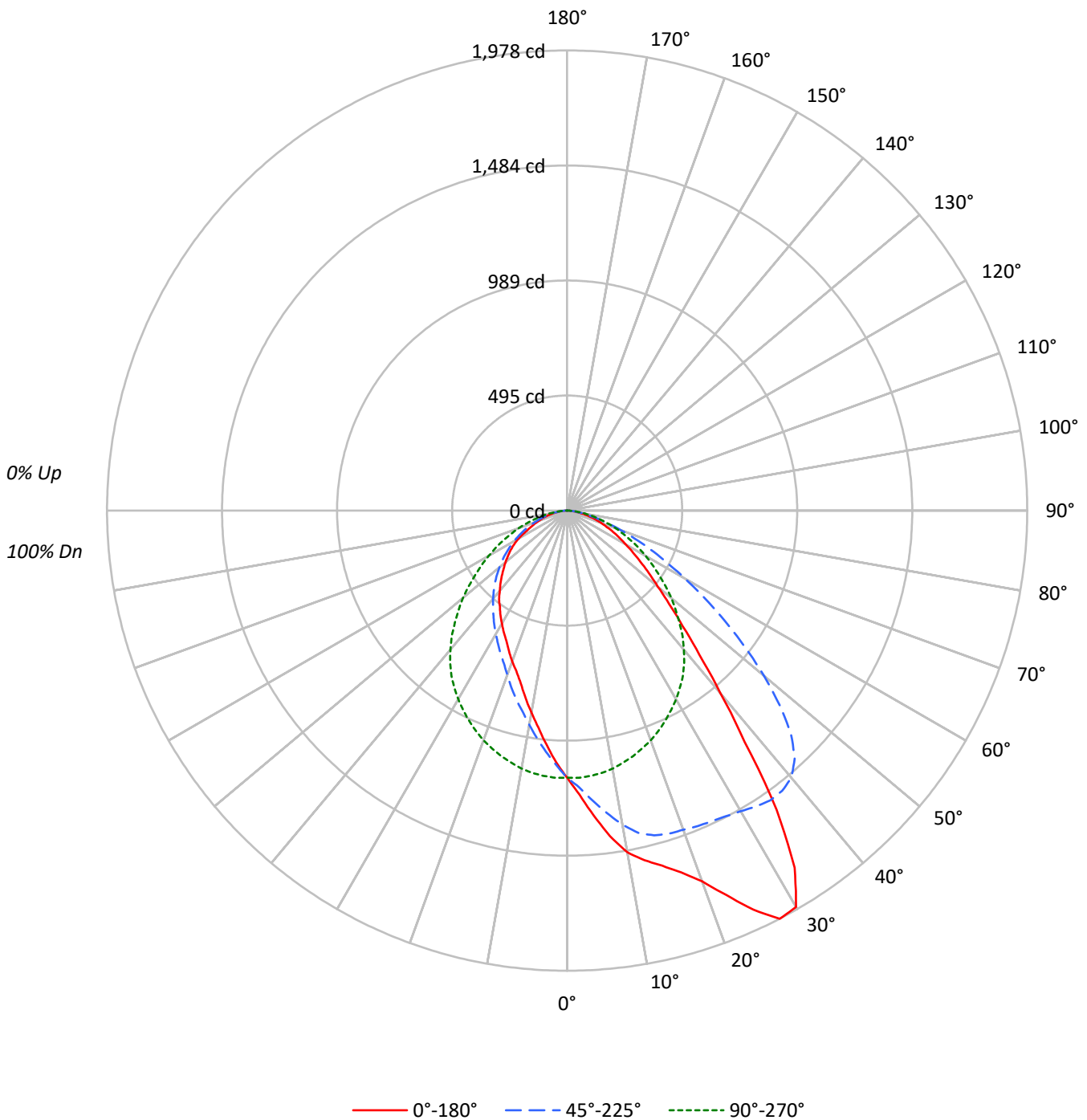
Lumens per Lamp: N/A
Luminaire Lumens: 2974.3 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.21 / 1.48
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (A_{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	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°	8159	8159	8159	8159	8159
5°	9387	8923	8170	7423	7215
10°	10768	9897	8128	6747	6367
15°	11629	10635	8045	6196	5659
20°	12824	11042	7948	5688	5225
25°	14841	11548	7820	5318	4849
30°	16150	12245	7685	5023	4602
35°	13624	13199	7528	4792	4375
40°	9514	13912	7244	4591	4180
45°	7058	13689	6863	4400	3988
50°	5627	12198	6466	4195	3825
55°	4777	10243	5974	3983	3679
60°	4127	8300	5532	3738	3443
65°	3678	6626	5057	3463	2963
70°	3231	5083	4632	3144	2704
75°	2795	3792	4012	2795	2537
80°	2120	2718	3377	2489	2120
85°	1770	1925	2650	2112	1998

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 13689 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.1	3.7
10°-20°	322.7	10.9
20°-30°	511.7	17.2
30°-40°	618.4	20.8
40°-50°	550.6	18.5
50°-60°	422.2	14.2
60°-70°	274.2	9.2
70°-80°	133.1	4.5
80°-90°	31.3	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°	944.5	31.8
0°-40°	1562.9	52.5
0°-60°	2535.8	85.3
0°-90°	2974.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2974.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1148	1148	1148	1148	1148	
5°	1316	1251	1145	1040	1011	131
15°	1580	1445	1093	842	769	452
25°	1892	1473	997	678	618	871
35°	1570	1521	868	552	504	952
45°	702	1362	683	438	397	557
55°	386	827	482	321	297	349
65°	219	394	301	206	176	217
75°	102	138	146	102	92	108
85°	22	24	32	26	24	26
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°	1147.9	1147.9	1147.9	1147.9	1147.9	1147.9	1147.9	1147.9	1147.9	1147.9	1147.9
2.5°	1222.4	1221.5	1223.3	1218.2	1218.6	1210.6	1210.6	1204.5	1196.5	1190.4	1187.5
5°	1315.7	1316.7	1314.8	1307.7	1303.0	1295.9	1287.9	1273.8	1262.0	1250.7	1241.7
7.5°	1410.9	1411.8	1405.7	1404.3	1392.1	1384.5	1366.6	1348.2	1332.2	1311.0	1295.9
10°	1492.0	1491.5	1484.9	1479.7	1469.3	1456.1	1438.7	1416.1	1394.9	1371.3	1348.7
12.5°	1539.1	1537.7	1536.7	1530.1	1520.7	1509.4	1495.3	1473.1	1445.8	1419.4	1392.1
15°	1580.5	1577.3	1571.1	1563.1	1549.4	1535.8	1519.3	1499.5	1474.5	1445.3	1420.8
17.5°	1630.5	1631.0	1621.5	1613.1	1595.2	1572.5	1548.0	1517.9	1485.8	1456.1	1431.6
20°	1695.5	1694.1	1684.7	1663.0	1641.8	1611.7	1582.4	1543.3	1501.9	1459.9	1427.4
22.5°	1788.8	1784.6	1774.7	1744.5	1708.7	1667.7	1619.2	1569.2	1516.9	1467.9	1422.7
25°	1892.5	1889.7	1870.4	1837.4	1791.2	1731.3	1672.9	1607.4	1535.3	1472.6	1420.8
27.5°	1978.3	1972.6	1955.2	1924.1	1878.8	1814.3	1733.7	1648.9	1563.1	1480.6	1409.5
30°	1967.9	1975.0	1973.1	1960.4	1928.3	1871.8	1798.7	1700.2	1593.3	1492.0	1402.9
32.5°	1819.9	1826.1	1847.3	1881.7	1892.0	1877.9	1828.0	1738.9	1627.2	1508.4	1397.7
35°	1570.2	1578.7	1610.7	1661.1	1727.1	1782.2	1793.6	1744.5	1645.1	1521.2	1392.5
37.5°	1252.6	1307.7	1329.4	1380.7	1484.4	1584.8	1672.0	1691.8	1638.0	1518.3	1386.4
40°	1025.4	1036.7	1084.8	1144.6	1228.5	1334.1	1473.1	1573.5	1576.8	1499.5	1366.6
42.5°	840.7	855.8	885.0	929.8	998.6	1104.1	1248.8	1389.2	1465.1	1447.7	1340.7
45°	702.2	713.0	737.0	773.8	828.9	916.1	1039.6	1192.7	1314.3	1361.9	1290.3
47.5°	593.8	599.4	621.6	651.3	693.7	759.6	860.0	998.6	1143.2	1239.8	1221.0
50°	508.9	515.5	531.6	552.8	587.2	640.9	717.2	828.0	978.3	1103.2	1128.2
52.5°	443.0	448.2	456.6	476.4	503.3	541.5	599.4	697.0	828.4	963.2	1029.2
55°	385.5	389.2	397.3	408.6	431.2	460.9	514.1	583.4	692.7	826.6	911.4
57.5°	336.5	338.4	343.1	354.4	370.9	393.0	433.5	496.7	575.9	701.7	795.0
60°	290.3	292.2	298.8	305.8	318.1	337.9	368.0	409.0	484.4	583.9	678.6
62.5°	253.5	254.5	256.4	263.4	273.8	287.9	310.1	341.7	397.7	482.1	570.2
65°	218.7	219.1	220.1	225.7	232.3	243.6	259.2	282.7	328.0	394.0	473.1
67.5°	183.8	184.7	188.0	189.9	197.9	203.6	213.5	232.3	267.2	314.3	378.4
70°	155.5	155.0	158.3	160.7	163.1	170.1	176.2	190.9	210.6	244.6	295.9
72.5°	129.1	127.7	128.6	129.1	132.4	136.7	142.8	150.3	164.5	185.2	221.5
75°	101.8	102.3	102.3	103.2	105.6	107.4	109.3	114.0	122.5	138.1	159.3
77.5°	76.3	75.4	77.8	77.8	79.6	82.0	83.4	85.3	88.6	95.7	108.4
80°	51.8	51.8	52.3	53.7	53.3	54.2	56.5	58.4	62.7	66.4	70.2
82.5°	36.8	36.3	36.8	36.8	36.8	37.7	38.2	38.2	39.1	40.5	42.9
85°	21.7	21.7	22.1	22.1	22.6	22.6	23.1	23.1	23.1	23.6	24.0
87.5°	10.4	9.9	9.4	9.4	9.9	10.8	10.4	9.9	9.9	9.9	10.4
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°	1147.9	1147.9	1147.9	1147.9	1147.9	1147.9	1147.9	1147.9	1147.9	1147.9	1147.9
2.5°	1187.5	1184.2	1178.1	1172.5	1165.4	1159.3	1155.0	1149.8	1143.2	1135.2	1128.6
5°	1231.8	1221.5	1207.8	1196.0	1180.9	1169.2	1156.9	1145.1	1133.3	1118.3	1105.1
7.5°	1280.8	1260.6	1241.7	1217.2	1195.1	1175.8	1156.9	1137.6	1119.2	1098.5	1079.1
10°	1325.1	1299.2	1270.5	1237.5	1207.3	1178.6	1152.2	1126.3	1098.9	1074.9	1049.0
12.5°	1366.6	1331.3	1297.3	1253.5	1215.8	1179.1	1143.7	1109.8	1080.1	1047.1	1018.8
15°	1388.3	1355.3	1318.5	1267.6	1217.2	1174.8	1135.2	1093.3	1057.0	1022.1	991.0
17.5°	1401.0	1366.1	1323.7	1274.2	1220.0	1167.3	1117.3	1072.5	1031.1	991.0	956.6
20°	1395.4	1361.9	1318.1	1271.4	1212.5	1156.9	1101.8	1050.9	1003.3	960.4	923.2
22.5°	1381.7	1346.8	1304.9	1254.9	1199.8	1139.9	1080.1	1025.0	974.5	929.8	888.3
25°	1368.0	1320.9	1277.5	1229.5	1176.2	1117.8	1057.0	997.2	943.9	898.7	854.4
27.5°	1354.8	1297.8	1244.1	1197.9	1140.9	1088.1	1028.7	967.0	911.4	865.7	820.4
30°	1335.5	1269.5	1208.7	1154.5	1101.3	1051.8	996.2	936.4	878.9	831.3	785.1
32.5°	1311.5	1240.3	1172.0	1107.4	1056.5	1007.5	958.5	902.0	846.4	796.9	749.7
35°	1292.1	1202.6	1130.0	1063.6	1006.6	959.0	913.7	867.6	811.5	760.6	714.9
37.5°	1265.3	1166.8	1084.8	1012.2	952.9	905.7	869.4	825.6	773.3	723.8	681.4
40°	1241.3	1127.2	1035.3	963.7	900.5	850.1	816.7	780.8	734.2	688.5	646.1
42.5°	1209.2	1090.9	985.4	910.0	846.4	798.3	764.4	734.2	697.0	654.6	608.4
45°	1165.4	1041.9	934.0	853.9	789.8	742.2	710.6	682.8	653.1	613.6	574.0
47.5°	1113.1	995.3	881.7	793.6	731.8	687.1	656.0	632.9	611.2	576.8	536.7
50°	1047.6	934.9	824.7	739.9	672.9	631.0	602.2	584.8	565.5	534.9	502.8
52.5°	970.3	872.7	765.3	678.1	615.9	577.3	549.9	532.5	517.4	493.9	463.7
55°	888.3	800.2	701.2	622.5	564.5	525.0	498.6	482.1	472.7	451.5	427.4
57.5°	795.5	727.6	638.1	561.3	508.9	469.4	449.6	435.0	424.1	408.6	390.7
60°	697.4	653.1	574.9	502.8	455.7	418.5	401.0	389.2	379.4	366.6	353.4
62.5°	598.0	568.8	503.3	443.9	401.5	371.8	355.8	345.4	333.6	326.1	313.4
65°	511.3	482.6	435.4	386.9	346.8	321.9	310.1	300.7	293.6	284.2	275.2
67.5°	415.2	402.0	367.1	330.8	301.6	277.6	267.2	259.7	251.6	246.0	239.4
70°	328.0	322.3	299.2	277.1	250.2	235.2	225.7	222.9	212.5	206.9	202.6
72.5°	250.7	248.8	238.0	224.3	207.3	194.6	186.1	182.8	177.2	172.9	170.6
75°	182.4	183.3	181.0	171.1	164.0	155.5	148.0	146.1	141.4	137.6	135.2
77.5°	124.4	129.1	128.2	127.7	124.4	118.3	115.0	113.6	108.4	107.0	106.5
80°	79.2	84.4	89.1	88.6	87.7	86.2	83.9	82.5	80.1	78.7	77.8
82.5°	46.2	50.9	54.7	58.0	58.0	56.5	55.1	54.7	54.7	53.7	53.7
85°	25.0	25.9	27.3	30.6	33.0	33.5	33.0	32.5	31.1	31.6	32.0
87.5°	10.8	10.8	11.3	11.3	10.8	13.2	14.6	15.1	14.1	13.2	12.3
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°	1147.9	1147.9	1147.9	1147.9	1147.9	1147.9	1147.9	1147.9	1147.9	1147.9	1147.9
2.5°	1123.9	1117.3	1112.6	1103.2	1096.6	1093.8	1088.6	1087.2	1092.3	1088.6	1088.1
5°	1095.2	1081.5	1070.7	1059.8	1048.0	1040.5	1029.2	1027.3	1024.5	1020.2	1019.3
7.5°	1061.7	1044.7	1032.0	1014.1	999.5	987.7	973.6	967.9	965.1	959.9	951.4
10°	1027.8	1006.6	987.7	969.8	950.5	934.9	920.8	910.0	902.9	896.3	893.5
12.5°	994.3	972.6	947.2	924.6	902.4	884.5	868.5	862.4	854.4	846.4	838.8
15°	959.5	930.7	904.3	879.3	861.0	842.1	827.0	816.7	804.9	801.6	788.9
17.5°	922.2	895.4	864.3	837.4	816.7	796.9	780.4	768.1	759.2	746.4	740.3
20°	887.8	854.4	824.2	800.2	776.6	752.1	735.1	725.2	716.8	706.9	702.2
22.5°	851.1	818.5	787.4	758.2	734.2	710.2	699.3	689.0	679.1	670.1	663.5
25°	815.3	782.3	749.7	720.5	695.6	678.1	664.0	652.2	647.0	638.1	631.5
27.5°	779.4	744.6	711.6	680.9	661.6	644.2	632.9	623.5	613.6	605.5	599.4
30°	745.0	709.2	672.5	649.4	628.6	612.1	599.4	590.5	583.4	576.3	572.1
32.5°	710.6	673.4	641.8	616.4	597.1	583.4	570.2	561.7	554.2	546.2	541.0
35°	673.4	635.7	609.3	584.8	565.5	552.3	543.3	531.1	525.0	519.3	514.1
37.5°	639.9	604.1	574.9	553.7	535.8	523.1	511.3	505.2	497.2	492.4	488.2
40°	602.2	570.2	544.3	521.7	509.4	494.8	484.0	475.5	469.8	463.2	458.5
42.5°	568.3	539.1	514.1	494.3	478.3	466.5	456.2	447.7	440.1	435.9	432.1
45°	536.7	507.1	482.6	463.7	449.6	437.8	426.9	422.7	413.3	407.6	405.7
47.5°	503.8	476.9	452.9	435.4	420.8	410.0	399.6	390.2	385.5	379.8	377.0
50°	470.3	444.9	422.7	405.7	391.6	379.4	369.9	364.3	357.2	352.0	348.2
52.5°	436.8	413.8	391.6	375.6	363.8	351.5	340.7	335.1	328.5	325.6	323.3
55°	405.3	380.3	361.4	345.4	332.7	321.4	311.5	305.8	301.6	298.3	297.4
57.5°	369.0	348.7	330.8	316.7	303.0	292.2	283.2	278.0	274.3	273.8	270.5
60°	333.6	315.7	299.7	284.2	272.8	263.0	255.4	249.3	245.5	245.0	244.1
62.5°	298.3	281.3	266.7	253.5	243.6	234.2	227.1	220.1	218.2	215.4	213.0
65°	263.4	247.9	235.6	224.8	213.9	205.9	198.9	194.6	189.4	186.6	181.4
67.5°	229.0	216.3	204.5	195.6	186.6	178.6	172.5	166.3	162.6	160.2	156.0
70°	195.1	185.7	173.9	164.0	157.4	151.3	146.6	139.5	137.1	135.2	133.4
72.5°	163.1	155.0	145.6	138.1	131.5	125.8	120.2	117.8	115.5	113.6	112.6
75°	133.4	125.4	116.9	111.2	106.5	101.8	99.0	96.6	95.7	95.2	93.3
77.5°	103.7	99.0	91.9	86.7	83.4	81.5	78.7	77.8	78.2	75.9	75.4
80°	74.9	72.6	66.9	65.0	62.7	60.8	59.4	57.0	54.7	53.7	52.3
82.5°	50.9	48.5	47.1	43.8	41.9	41.0	39.6	39.1	40.1	38.6	38.2
85°	29.7	27.3	26.4	25.9	25.0	25.9	25.4	25.0	24.5	24.0	24.5
87.5°	11.8	11.8	11.3	12.3	10.8	11.3	11.3	10.8	10.8	10.8	10.4
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: P242910

CATALOG NUMBER: S125RDRP-S850D830-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1147.9	1147.9	1147.9	1147.9
2.5°	1087.6	1082.4	1081.0	1082.9
5°	1014.6	1009.9	1012.2	1011.3
7.5°	952.9	946.7	939.7	941.5
10°	887.4	882.6	879.8	882.2
12.5°	832.2	829.9	827.5	825.6
15°	783.2	777.6	775.2	769.1
17.5°	736.1	734.2	728.1	723.8
20°	695.1	693.2	687.1	690.8
22.5°	661.2	656.4	655.5	653.1
25°	629.6	623.5	621.1	618.3
27.5°	597.5	594.2	590.9	590.0
30°	566.4	563.1	560.8	560.8
32.5°	538.6	536.3	533.9	533.4
35°	511.8	508.0	507.1	504.2
37.5°	483.5	480.2	480.2	480.7
40°	456.6	454.3	453.8	450.5
42.5°	427.9	426.9	425.1	424.1
45°	402.4	399.1	399.1	396.8
47.5°	375.6	372.8	373.2	370.4
50°	348.7	347.3	346.8	345.9
52.5°	321.9	321.4	323.7	321.4
55°	298.3	296.9	299.7	296.9
57.5°	270.5	269.6	272.4	270.5
60°	243.2	240.3	241.7	242.2
62.5°	210.6	209.2	210.2	207.3
65°	180.5	179.1	177.2	176.2
67.5°	156.9	152.7	152.7	153.6
70°	130.5	130.5	130.1	130.1
72.5°	112.2	111.7	110.7	110.3
75°	93.3	93.8	92.8	92.4
77.5°	73.0	70.7	71.6	70.7
80°	52.3	51.8	53.3	51.8
82.5°	38.6	38.2	38.6	37.7
85°	25.0	24.5	24.0	24.5
87.5°	10.8	10.4	10.4	10.4
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242910
 CATALOG NUMBER: S125RDRP-S850D830-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	16.92	18.45	17.28	18.77	19.08	17.90	19.43	18.26	19.74	20.06
	3H	18.04	19.42	18.42	19.75	20.11	19.37	20.75	19.75	21.08	21.44
	4H	18.43	19.72	18.83	20.07	20.45	19.89	21.18	20.29	21.53	21.90
	6H	18.66	19.85	19.07	20.22	20.61	20.24	21.43	20.65	21.79	22.19
	8H	18.72	19.85	19.14	20.24	20.64	20.33	21.47	20.76	21.86	22.26
	12H	18.75	19.84	19.18	20.22	20.65	20.39	21.48	20.82	21.86	22.29
4H	2H	18.51	19.80	18.91	20.15	20.52	18.74	20.03	19.14	20.38	20.76
	3H	19.57	20.64	19.98	21.04	21.44	20.41	21.48	20.82	21.88	22.28
	4H	19.96	20.92	20.39	21.34	21.77	20.99	21.95	21.42	22.37	22.81
	6H	20.21	21.05	20.67	21.49	21.95	21.42	22.26	21.88	22.70	23.16
	8H	20.27	21.06	20.74	21.50	21.97	21.54	22.32	22.01	22.77	23.23
	12H	20.32	21.02	20.80	21.50	21.97	21.62	22.32	22.11	22.80	23.27
8H	4H	20.33	21.11	20.79	21.56	22.02	21.14	21.92	21.60	22.37	22.83
	6H	20.64	21.28	21.13	21.77	22.25	21.66	22.30	22.15	22.79	23.27
	8H	20.73	21.31	21.24	21.82	22.31	21.83	22.41	22.34	22.92	23.41
	12H	20.81	21.32	21.32	21.81	22.38	21.97	22.48	22.48	22.97	23.54
12H	4H	20.36	21.05	20.84	21.53	22.00	21.13	21.83	21.61	22.31	22.78
	6H	20.67	21.25	21.18	21.76	22.25	21.65	22.23	22.16	22.74	23.23
	8H	20.80	21.31	21.31	21.81	22.37	21.86	22.38	22.37	22.87	23.43