

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: P243770

Luminaire Tested: S125RDRP-H850D830-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243770
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-H850D830-X4F0-XX-UDD-A-W
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

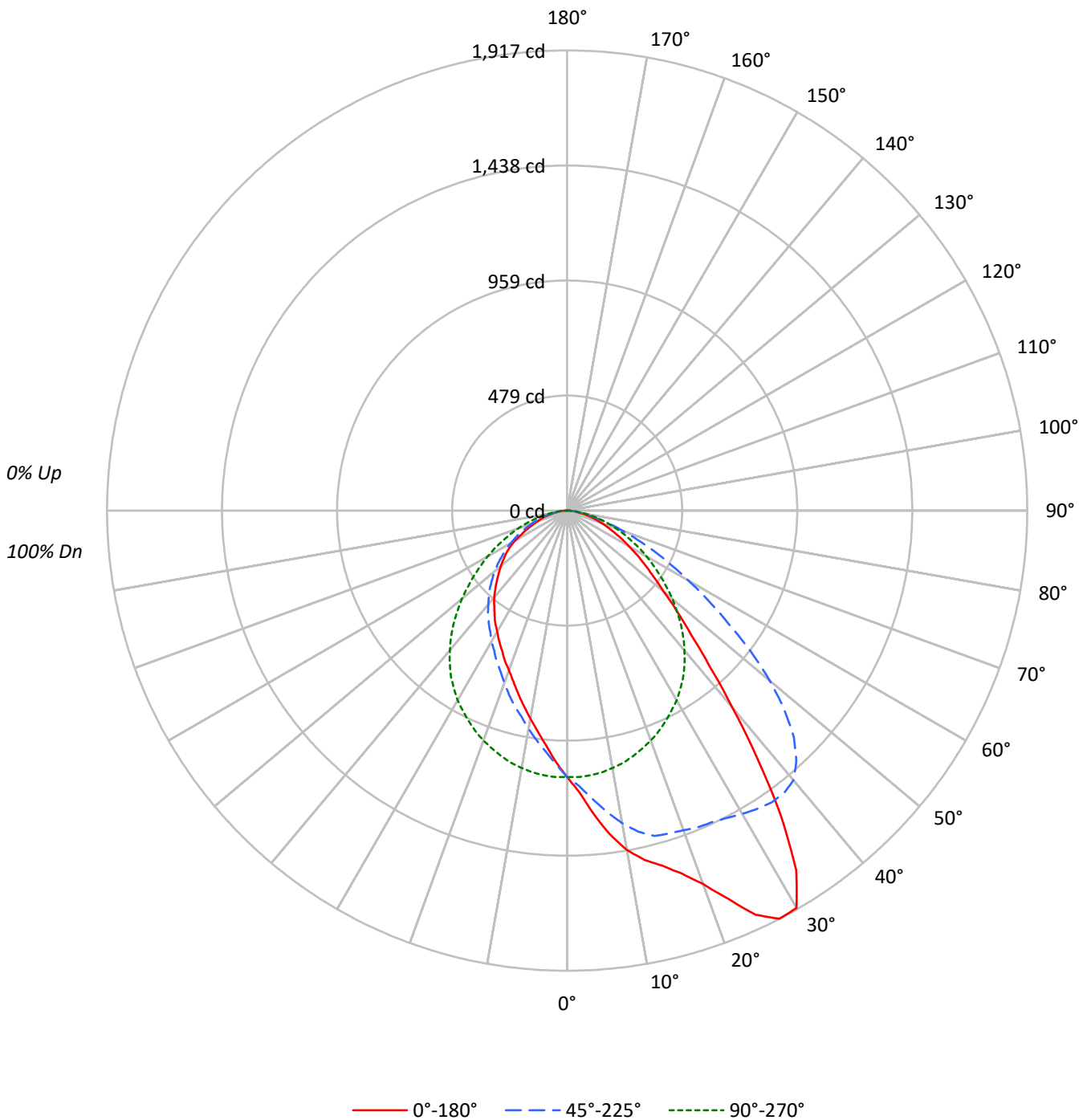
Lumens per Lamp: N/A
Luminaire Lumens: 2953.3 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.42 / 1.22 / 1.5
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

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				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	68	78	72	67	75	70	66	73	69	65	63				63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54				54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	48				48
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42				42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37				37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33				33
9	59	46	38	32	57	45	38	32	44	37	32	43	37	32	42	36	32	30				30
10	55	42	35	29	54	42	34	29	41	34	29	40	34	29	39	33	29	27				27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7887	7887	7887	7887	7887
5°	9054	8601	7898	7202	7025
10°	10359	9542	7859	6666	6351
15°	11267	10325	7796	6207	5808
20°	12520	10719	7707	5777	5351
25°	14568	11228	7598	5445	5038
30°	15687	11971	7485	5164	4781
35°	13476	12877	7319	4940	4573
40°	9928	13606	7054	4739	4385
45°	7332	13423	6726	4564	4157
50°	5809	12183	6325	4374	3989
55°	4907	10168	5861	4105	3839
60°	4227	8306	5429	3852	3552
65°	3670	6703	4943	3537	3093
70°	3219	5093	4526	3200	2706
75°	2730	3710	3963	2828	2562
80°	2124	2685	3315	2484	2124
85°	1867	1973	2658	2120	1941

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 13423 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.8	3.6
10°-20°	316.0	10.7
20°-30°	504.0	17.1
30°-40°	612.0	20.7
40°-50°	551.5	18.7
50°-60°	424.1	14.4
60°-70°	275.2	9.3
70°-80°	132.4	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°	926.8	31.4
0°-40°	1538.8	52.1
0°-60°	2514.3	85.1
0°-90°	2953.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2953.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1110	1110	1110	1110	1110	
5°	1269	1206	1107	1009	985	126
15°	1531	1403	1060	844	789	439
25°	1858	1432	969	694	642	849
35°	1553	1484	844	569	527	950
45°	730	1335	669	454	414	580
55°	396	821	473	331	310	359
65°	218	399	294	210	184	219
75°	99	135	144	103	93	107
85°	23	24	33	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°	1109.7	1109.7	1109.7	1109.7	1109.7	1109.7	1109.7	1109.7	1109.7	1109.7	1109.7
2.5°	1173.9	1178.3	1174.8	1177.0	1173.5	1171.7	1167.3	1160.7	1154.1	1148.0	1147.5
5°	1269.0	1268.1	1264.6	1259.7	1256.2	1247.4	1243.0	1228.0	1217.9	1205.6	1199.4
7.5°	1359.6	1357.4	1352.1	1345.5	1342.4	1331.0	1318.7	1299.8	1283.9	1264.6	1250.0
10°	1435.3	1434.8	1430.9	1426.5	1414.6	1401.8	1390.0	1370.2	1346.4	1322.2	1302.0
12.5°	1490.7	1488.5	1483.7	1476.2	1466.5	1457.7	1441.9	1423.8	1394.8	1370.2	1342.4
15°	1531.2	1530.3	1523.3	1520.6	1501.7	1489.4	1468.3	1450.2	1427.8	1403.2	1373.2
17.5°	1584.9	1586.6	1580.5	1565.5	1548.4	1529.4	1499.5	1470.0	1438.8	1410.2	1386.0
20°	1655.3	1650.9	1640.3	1622.3	1591.5	1568.2	1538.2	1501.7	1459.5	1417.2	1382.5
22.5°	1749.4	1744.6	1727.9	1705.9	1667.2	1624.5	1578.7	1524.2	1475.8	1427.4	1381.6
25°	1857.7	1848.4	1823.8	1800.0	1745.0	1699.7	1631.5	1566.4	1496.0	1431.8	1380.3
27.5°	1916.6	1916.6	1905.2	1879.2	1835.7	1768.8	1699.3	1612.6	1531.2	1443.2	1370.2
30°	1911.4	1908.3	1912.7	1901.7	1873.5	1823.4	1754.3	1663.2	1559.4	1458.6	1371.0
32.5°	1775.0	1776.3	1802.7	1820.7	1834.8	1822.5	1777.6	1695.3	1591.9	1473.6	1367.5
35°	1553.2	1556.7	1603.4	1634.2	1697.1	1733.2	1743.7	1699.3	1606.4	1484.1	1361.4
37.5°	1299.8	1299.8	1353.9	1400.5	1470.9	1559.8	1626.2	1643.0	1597.6	1483.7	1356.1
40°	1070.1	1068.8	1111.4	1168.6	1243.9	1342.0	1441.0	1525.9	1536.9	1466.5	1337.6
42.5°	875.6	873.4	920.0	951.7	1030.9	1118.5	1250.0	1370.2	1438.8	1413.3	1310.3
45°	729.5	727.8	758.1	794.2	850.1	941.2	1051.6	1184.9	1300.2	1335.4	1259.3
47.5°	619.5	620.4	636.7	667.0	714.6	779.7	878.7	1002.3	1144.9	1226.3	1195.0
50°	525.4	528.4	540.8	563.6	598.4	650.8	735.7	847.4	994.0	1101.8	1108.4
52.5°	455.0	459.4	472.6	484.9	513.9	550.9	616.9	713.7	834.7	964.0	1010.2
55°	396.0	398.2	405.7	418.9	440.4	471.2	519.2	593.1	705.3	820.6	902.0
57.5°	346.7	346.7	351.6	360.8	378.0	405.7	437.8	499.0	593.6	697.8	784.5
60°	297.4	299.2	302.7	312.8	324.3	345.4	376.6	415.4	497.2	584.3	677.6
62.5°	256.1	259.2	262.7	267.5	278.1	293.0	315.0	350.7	405.7	486.2	569.4
65°	218.2	221.3	221.8	227.5	234.5	246.8	263.6	289.5	335.3	398.6	467.3
67.5°	184.8	186.1	187.4	191.8	198.4	206.4	217.4	236.7	272.8	315.5	382.4
70°	154.9	155.8	156.2	161.0	164.1	171.2	176.9	189.2	212.1	245.1	297.0
72.5°	126.7	125.4	125.0	128.9	130.2	136.0	143.0	151.8	164.1	187.4	226.2
75°	99.4	99.9	100.3	102.5	103.0	105.6	110.0	115.7	121.4	135.1	159.7
77.5°	76.6	74.8	74.8	77.4	78.3	78.8	81.8	84.9	88.0	95.9	105.6
80°	51.9	52.8	52.8	52.8	53.2	54.1	55.9	58.5	60.7	65.6	67.3
82.5°	37.0	37.0	36.5	37.4	37.8	38.3	38.3	38.3	39.6	40.9	42.7
85°	22.9	23.3	22.0	22.9	23.3	23.3	23.3	23.3	24.6	24.2	24.6
87.5°	9.7	10.1	10.1	10.6	10.6	11.0	10.6	11.0	10.6	10.6	11.0
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°	1109.7	1109.7	1109.7	1109.7	1109.7	1109.7	1109.7	1109.7	1109.7	1109.7	1109.7
2.5°	1146.2	1140.9	1138.3	1133.0	1126.0	1121.6	1117.2	1111.0	1106.2	1098.7	1092.1
5°	1188.4	1177.9	1168.2	1155.0	1142.2	1131.2	1119.8	1107.0	1095.6	1082.8	1069.2
7.5°	1235.5	1218.8	1198.6	1175.2	1155.4	1138.3	1118.9	1100.0	1082.8	1062.6	1044.1
10°	1280.8	1254.0	1227.2	1195.9	1166.9	1141.4	1115.4	1089.0	1066.6	1041.5	1018.6
12.5°	1316.0	1290.5	1250.5	1211.8	1173.9	1140.9	1108.4	1076.2	1046.8	1019.0	991.8
15°	1346.8	1304.6	1270.7	1228.5	1182.3	1137.4	1096.9	1059.5	1023.9	991.3	963.6
17.5°	1355.6	1317.8	1280.8	1231.6	1181.8	1130.8	1084.2	1039.7	1000.1	964.0	932.8
20°	1354.8	1316.5	1276.4	1229.4	1176.6	1120.7	1068.8	1019.0	974.2	932.8	899.4
22.5°	1341.6	1304.6	1264.1	1216.6	1162.9	1105.3	1050.7	995.7	946.9	903.8	869.4
25°	1327.5	1280.8	1238.6	1190.6	1139.6	1086.4	1028.3	968.9	917.8	873.0	834.2
27.5°	1315.2	1259.3	1207.4	1160.3	1107.9	1060.0	1002.3	940.3	887.9	840.8	800.8
30°	1295.4	1236.4	1173.5	1122.0	1071.4	1021.2	968.4	912.1	854.9	807.0	766.9
32.5°	1278.2	1203.8	1135.6	1077.6	1027.0	983.0	932.4	878.2	822.4	776.6	733.5
35°	1259.3	1170.4	1099.1	1030.9	980.3	932.4	892.3	843.5	788.0	739.6	700.9
37.5°	1236.8	1136.1	1054.2	984.7	932.4	883.1	847.0	803.4	753.3	705.3	667.0
40°	1211.8	1100.9	1006.7	935.0	878.7	829.4	799.0	760.3	717.6	670.1	634.5
42.5°	1180.1	1063.5	963.6	885.3	822.8	778.4	748.0	715.9	676.7	635.4	596.6
45°	1140.0	1016.8	912.1	829.4	767.8	724.7	693.0	669.2	638.0	599.3	562.8
47.5°	1091.2	968.0	859.3	773.5	714.1	672.8	643.3	619.5	595.8	562.3	527.6
50°	1026.5	912.1	807.8	720.3	657.4	617.3	590.9	572.0	550.4	523.2	491.5
52.5°	955.2	849.2	747.1	665.3	604.6	564.5	537.2	521.4	505.1	482.7	455.4
55°	872.5	786.3	689.0	609.0	549.6	510.0	488.4	473.0	459.4	442.2	419.3
57.5°	785.0	709.3	624.8	550.9	495.0	457.6	438.7	425.9	414.5	402.2	383.2
60°	693.0	639.3	559.2	491.5	442.6	411.8	393.8	381.9	371.4	361.2	347.2
62.5°	597.1	552.6	492.8	435.2	391.6	362.6	349.4	339.2	328.2	319.4	309.3
65°	499.8	474.3	433.0	378.8	338.8	315.0	302.3	293.9	288.6	278.5	270.6
67.5°	411.4	397.3	362.1	325.6	294.8	273.2	261.4	255.2	249.5	244.6	235.8
70°	327.4	317.2	297.0	271.0	246.8	228.4	219.6	217.8	209.9	205.0	200.6
72.5°	249.5	246.8	230.1	218.7	205.0	190.5	183.9	180.4	175.1	170.7	169.0
75°	177.3	181.3	176.0	170.3	163.7	151.8	146.1	144.3	139.5	138.2	136.0
77.5°	121.0	126.7	128.5	125.8	122.8	118.8	114.8	113.1	108.2	107.4	106.0
80°	76.1	84.5	87.6	87.1	85.8	86.2	81.4	81.0	78.8	77.4	78.8
82.5°	46.2	50.6	56.3	57.6	55.9	56.8	55.4	53.7	53.7	54.6	52.8
85°	25.1	25.5	28.2	29.9	32.1	33.9	32.1	32.6	32.1	32.1	30.8
87.5°	11.0	11.4	11.4	11.0	11.9	12.8	14.5	15.4	15.0	13.6	11.9
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°	1109.7	1109.7	1109.7	1109.7	1109.7	1109.7	1109.7	1109.7	1109.7	1109.7	1109.7
2.5°	1086.8	1083.7	1078.4	1074.0	1063.9	1056.9	1056.0	1056.4	1055.6	1054.7	1054.2
5°	1060.4	1050.3	1040.6	1032.2	1020.8	1009.4	1004.1	1001.9	1001.0	996.2	998.8
7.5°	1032.2	1016.8	1005.4	989.6	975.9	966.2	957.0	952.6	951.7	945.1	943.4
10°	1002.3	983.8	966.7	950.8	937.2	923.6	912.6	908.6	903.3	898.0	890.1
12.5°	972.8	950.0	931.0	913.4	895.0	879.6	870.8	865.0	858.4	853.6	851.0
15°	937.6	918.3	895.0	876.0	857.1	843.5	831.6	821.0	814.9	810.9	799.9
17.5°	906.0	880.4	858.4	840.4	819.7	804.3	792.0	783.2	772.6	764.7	757.7
20°	872.1	845.7	825.4	803.9	782.8	763.8	748.4	741.4	733.9	726.4	722.5
22.5°	835.6	812.7	789.8	767.4	744.9	724.7	715.0	704.9	698.3	690.8	685.5
25°	803.9	778.8	755.9	730.8	706.2	694.3	681.1	671.0	665.7	658.2	652.5
27.5°	770.0	745.8	718.5	692.6	678.0	657.8	649.0	641.1	634.0	626.6	622.6
30°	738.3	710.2	682.9	662.6	643.7	629.2	620.8	611.2	601.5	598.0	592.7
32.5°	704.9	674.5	650.8	630.5	614.7	597.1	589.2	581.2	572.0	567.6	562.8
35°	670.1	640.6	617.3	598.8	582.6	569.4	560.6	552.2	546.5	539.9	536.4
37.5°	633.6	608.1	585.6	567.2	552.2	541.6	530.6	524.0	516.1	510.0	507.3
40°	598.8	576.0	554.4	537.2	523.6	510.8	501.2	492.8	488.0	482.7	478.3
42.5°	567.6	543.8	525.4	507.3	495.0	482.7	473.0	466.8	458.5	456.3	450.1
45°	534.2	512.2	493.7	477.0	464.2	454.1	442.6	435.2	429.9	424.6	422.4
47.5°	500.3	480.0	462.9	447.5	434.3	422.8	414.0	406.1	400.4	395.6	392.9
50°	467.3	449.7	432.5	417.6	403.9	395.6	385.0	376.2	371.8	366.5	363.4
52.5°	432.5	418.0	399.5	386.8	374.0	363.0	352.4	346.7	342.3	337.9	335.7
55°	400.0	384.6	368.7	355.1	342.8	331.3	323.0	318.6	312.8	310.2	309.8
57.5°	366.5	350.7	337.5	325.2	311.1	302.3	294.8	289.5	284.7	282.5	282.5
60°	330.0	317.2	304.9	291.3	281.2	271.0	263.1	259.6	254.8	253.9	250.8
62.5°	296.6	284.7	272.8	260.0	250.8	240.7	235.0	230.1	227.5	224.0	220.4
65°	261.8	251.2	239.8	228.8	221.3	210.3	205.0	199.3	196.2	192.3	187.9
67.5°	228.4	218.2	207.7	197.6	191.4	180.8	177.3	170.3	168.1	163.7	159.7
70°	193.2	186.1	177.8	167.6	162.4	154.0	150.5	143.9	140.4	137.7	135.5
72.5°	162.8	156.2	146.5	139.9	133.3	128.0	122.3	119.2	116.2	114.0	113.5
75°	132.9	124.5	118.8	112.6	108.2	103.0	100.3	98.1	96.8	95.5	94.2
77.5°	101.6	98.1	92.4	86.2	82.7	80.5	78.8	77.9	76.6	76.1	74.8
80°	75.7	70.8	67.3	65.1	62.5	60.7	59.4	56.3	54.6	53.7	52.8
82.5°	50.2	48.8	46.2	44.0	41.8	41.4	40.0	39.2	38.7	38.7	38.3
85°	30.4	26.8	26.8	26.4	26.4	26.0	25.1	25.1	24.2	25.5	25.5
87.5°	12.3	12.3	11.4	11.4	11.9	11.0	10.6	10.6	10.6	10.1	10.6
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: P243770

CATALOG NUMBER: S125RDRP-H850D830-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1109.7	1109.7	1109.7	1109.7
2.5°	1054.2	1052.0	1052.5	1049.8
5°	994.0	992.6	988.2	984.7
7.5°	939.0	933.2	932.8	929.3
10°	887.5	882.2	879.6	880.0
12.5°	842.6	836.9	836.9	833.4
15°	794.6	788.9	789.8	789.4
17.5°	755.0	751.1	748.0	745.4
20°	716.3	711.5	709.7	707.5
22.5°	680.7	677.2	677.6	677.6
25°	646.8	647.2	643.3	642.4
27.5°	616.9	616.0	615.1	613.4
30°	588.7	585.2	584.3	582.6
32.5°	559.7	559.2	555.7	557.0
35°	530.2	528.9	528.0	527.1
37.5°	502.9	500.3	499.8	499.0
40°	475.2	474.3	470.4	472.6
42.5°	445.3	443.5	443.5	443.5
45°	420.2	415.4	415.4	413.6
47.5°	392.0	390.3	389.4	386.3
50°	364.3	361.7	360.8	360.8
52.5°	335.7	335.3	336.2	334.4
55°	310.6	311.1	310.6	309.8
57.5°	283.4	281.2	281.2	281.6
60°	250.8	250.8	251.7	249.9
62.5°	219.6	218.7	215.6	214.7
65°	187.4	183.9	183.5	183.9
67.5°	158.8	157.5	155.3	155.8
70°	134.2	133.8	131.6	130.2
72.5°	112.2	112.2	110.9	110.9
75°	93.7	92.8	92.4	93.3
77.5°	72.2	70.0	70.8	69.5
80°	52.4	53.2	52.4	51.9
82.5°	38.7	37.8	38.3	37.8
85°	24.6	23.8	24.2	23.8
87.5°	10.1	10.6	10.6	9.7
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243770
 CATALOG NUMBER: S125RDRP-H850D830-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	17.10	18.64	17.46	18.95	19.27	17.79	19.33	18.16	19.65	19.96
	3H	18.18	19.56	18.56	19.89	20.25	19.27	20.65	19.65	20.98	21.34
	4H	18.54	19.83	18.94	20.18	20.56	19.80	21.09	20.20	21.44	21.82
	6H	18.76	19.95	19.17	20.32	20.71	20.15	21.35	20.56	21.72	22.11
	8H	18.81	19.95	19.24	20.34	20.74	20.25	21.39	20.68	21.78	22.18
	12H	18.85	19.94	19.28	20.32	20.75	20.31	21.40	20.74	21.78	22.21
4H	2H	18.62	19.91	19.02	20.26	20.64	18.67	19.96	19.07	20.31	20.69
	3H	19.66	20.74	20.07	21.14	21.54	20.33	21.40	20.74	21.80	22.20
	4H	20.03	20.99	20.46	21.41	21.84	20.93	21.89	21.36	22.31	22.75
	6H	20.27	21.11	20.73	21.55	22.01	21.36	22.20	21.82	22.64	23.10
	8H	20.33	21.12	20.79	21.56	22.03	21.48	22.27	21.95	22.71	23.18
	12H	20.38	21.08	20.86	21.56	22.03	21.57	22.27	22.05	22.75	23.22
8H	4H	20.39	21.17	20.85	21.61	22.08	21.08	21.86	21.54	22.31	22.78
	6H	20.68	21.33	21.17	21.82	22.29	21.60	22.25	22.10	22.74	23.22
	8H	20.77	21.36	21.29	21.86	22.35	21.78	22.36	22.29	22.87	23.36
	12H	20.86	21.37	21.37	21.86	22.43	21.92	22.43	22.43	22.92	23.49
12H	4H	20.41	21.11	20.89	21.59	22.06	21.07	21.77	21.55	22.25	22.72
	6H	20.71	21.29	21.22	21.80	22.29	21.59	22.18	22.11	22.69	23.17
	8H	20.84	21.36	21.35	21.85	22.41	21.81	22.33	22.32	22.82	23.38