

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: P243795

Luminaire Tested: S125RDRP-H850D940-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243795
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-H850D940-X4F0-XX-UDD-A-W
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

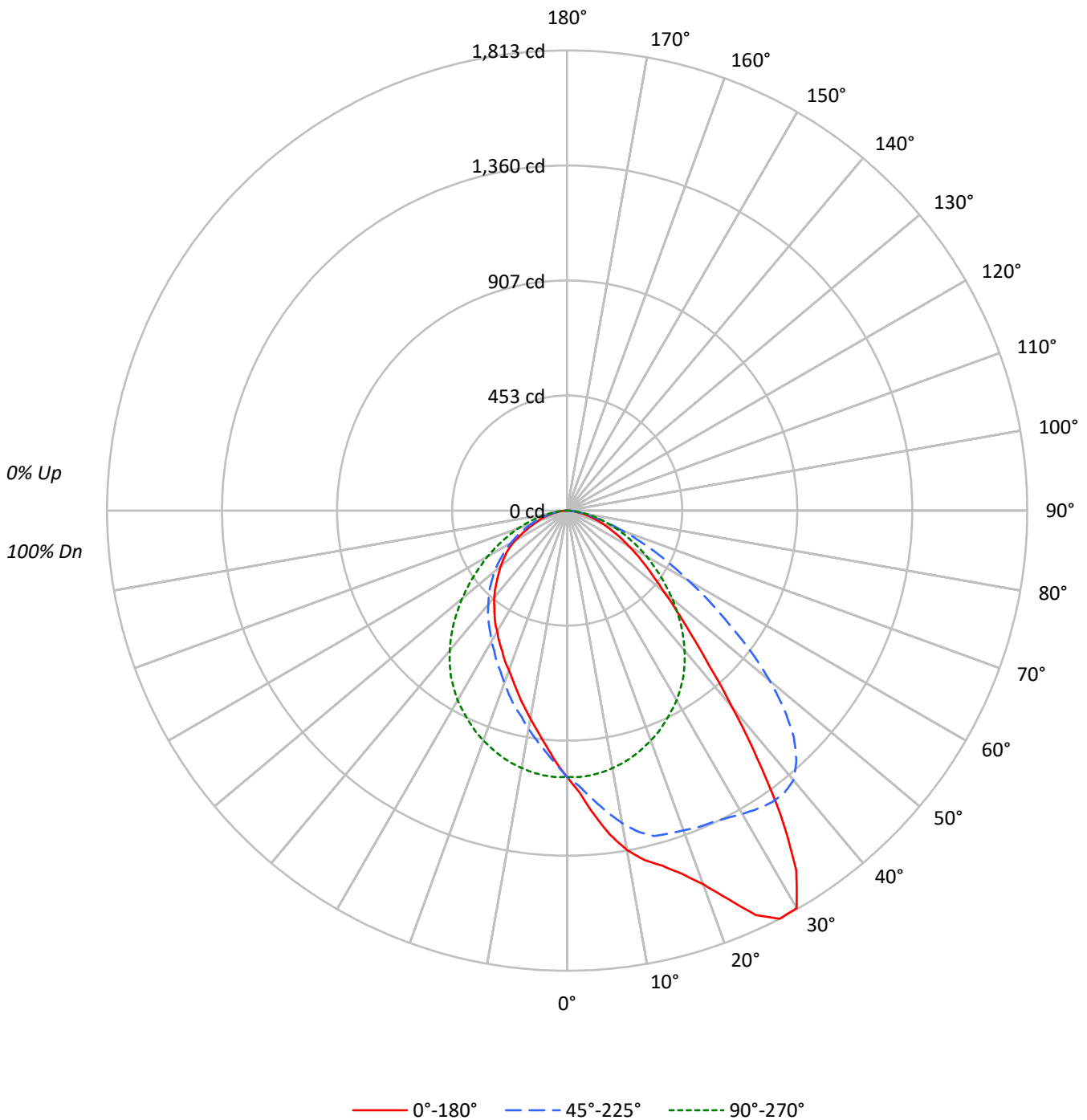
Lumens per Lamp: N/A
Luminaire Lumens: 2794.0 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 1.42 / 1.22 / 1.5
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

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°	7461	7461	7461	7461	7461
5°	8565	8138	7472	6813	6646
10°	9800	9028	7436	6306	6008
15°	10659	9768	7376	5872	5495
20°	11844	10141	7292	5465	5063
25°	13782	10622	7188	5151	4766
30°	14840	11325	7082	4886	4523
35°	12749	12183	6924	4674	4327
40°	9393	12872	6674	4484	4148
45°	6937	12699	6363	4318	3933
50°	5495	11525	5984	4138	3774
55°	4642	9619	5545	3885	3632
60°	4000	7858	5136	3645	3360
65°	3473	6342	4677	3347	2926
70°	3044	4819	4283	3028	2560
75°	2584	3509	3748	2675	2422
80°	2010	2538	3135	2349	2010
85°	1761	1867	2512	2006	1835

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 12699 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.0	3.6
10°-20°	299.0	10.7
20°-30°	476.8	17.1
30°-40°	579.0	20.7
40°-50°	521.7	18.7
50°-60°	401.2	14.4
60°-70°	260.3	9.3
70°-80°	125.3	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°	876.9	31.4
0°-40°	1455.8	52.1
0°-60°	2378.7	85.1
0°-90°	2794.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2794.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1050	1050	1050	1050	1050	
5°	1200	1141	1047	955	932	119
15°	1449	1328	1002	798	747	415
25°	1758	1354	917	657	608	804
35°	1469	1404	798	539	499	899
45°	690	1263	633	430	391	548
55°	375	776	448	314	293	340
65°	206	377	278	199	174	207
75°	94	128	136	97	88	101
85°	22	23	31	25	22	25
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°	1049.8	1049.8	1049.8	1049.8	1049.8	1049.8	1049.8	1049.8	1049.8	1049.8	1049.8
2.5°	1110.6	1114.8	1111.4	1113.5	1110.2	1108.5	1104.4	1098.1	1091.9	1086.1	1085.6
5°	1200.5	1199.7	1196.4	1191.8	1188.5	1180.1	1176.0	1161.8	1152.2	1140.6	1134.8
7.5°	1286.3	1284.2	1279.2	1273.0	1270.0	1259.2	1247.6	1229.7	1214.7	1196.4	1182.6
10°	1357.9	1357.5	1353.7	1349.6	1338.3	1326.2	1315.0	1296.3	1273.8	1250.9	1231.7
12.5°	1410.3	1408.2	1403.7	1396.6	1387.4	1379.1	1364.1	1347.1	1319.6	1296.3	1270.0
15°	1448.6	1447.8	1441.1	1438.6	1420.7	1409.1	1389.1	1372.0	1350.8	1327.5	1299.2
17.5°	1499.4	1501.1	1495.2	1481.1	1464.9	1447.0	1418.7	1390.8	1361.2	1334.1	1311.3
20°	1566.0	1561.8	1551.9	1534.8	1505.7	1483.6	1455.3	1420.7	1380.8	1340.8	1307.9
22.5°	1655.1	1650.5	1634.7	1613.9	1577.3	1536.9	1493.6	1442.0	1396.2	1350.4	1307.1
25°	1757.5	1748.8	1725.4	1703.0	1650.9	1608.1	1543.5	1481.9	1415.3	1354.5	1305.8
27.5°	1813.3	1813.3	1802.5	1777.9	1736.7	1673.4	1607.6	1525.6	1448.6	1365.4	1296.3
30°	1808.3	1805.4	1809.5	1799.1	1772.5	1725.0	1659.7	1573.5	1475.3	1379.9	1297.1
32.5°	1679.2	1680.5	1705.5	1722.5	1735.8	1724.2	1681.7	1603.9	1506.1	1394.1	1293.8
35°	1469.4	1472.8	1516.9	1546.0	1605.6	1639.7	1649.7	1607.6	1519.8	1404.1	1287.9
37.5°	1229.7	1229.7	1280.9	1325.0	1391.6	1475.7	1538.5	1554.4	1511.5	1403.7	1282.9
40°	1012.4	1011.1	1051.5	1105.6	1176.8	1269.6	1363.3	1443.6	1454.0	1387.4	1265.5
42.5°	828.4	826.3	870.4	900.4	975.3	1058.2	1182.6	1296.3	1361.2	1337.1	1239.7
45°	690.2	688.5	717.2	751.4	804.2	890.4	994.9	1121.0	1230.1	1263.4	1191.4
47.5°	586.1	586.9	602.3	631.1	676.0	737.6	831.3	948.3	1083.1	1160.1	1130.6
50°	497.0	499.9	511.6	533.2	566.1	615.7	696.0	801.7	940.4	1042.3	1048.6
52.5°	430.4	434.6	447.1	458.7	486.2	521.2	583.6	675.2	789.7	912.0	955.8
55°	374.6	376.7	383.8	396.3	416.7	445.8	491.2	561.1	667.3	776.3	853.4
57.5°	328.0	328.0	332.6	341.3	357.6	383.8	414.2	472.1	561.5	660.2	742.2
60°	281.4	283.1	286.4	296.0	306.8	326.8	356.3	393.0	470.4	552.8	641.1
62.5°	242.3	245.2	248.5	253.1	263.1	277.2	298.0	331.8	383.8	460.0	538.7
65°	206.5	209.4	209.8	215.2	221.9	233.5	249.3	273.9	317.2	377.1	442.1
67.5°	174.8	176.1	177.3	181.5	187.7	195.2	205.6	224.0	258.1	298.5	361.7
70°	146.5	147.4	147.8	152.4	155.3	161.9	167.3	179.0	200.6	231.9	281.0
72.5°	119.9	118.6	118.2	122.0	123.2	128.6	135.3	143.6	155.3	177.3	214.0
75°	94.1	94.5	94.9	97.0	97.4	99.9	104.1	109.5	114.9	127.8	151.1
77.5°	72.4	70.8	70.8	73.3	74.1	74.5	77.4	80.3	83.3	90.7	99.9
80°	49.1	50.0	50.0	50.0	50.4	51.2	52.9	55.4	57.4	62.0	63.7
82.5°	35.0	35.0	34.6	35.4	35.8	36.2	36.2	36.2	37.5	38.7	40.4
85°	21.6	22.1	20.8	21.6	22.1	22.1	22.1	22.1	23.3	22.9	23.3
87.5°	9.2	9.6	9.6	10.0	10.0	10.4	10.0	10.4	10.0	10.0	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°	1049.8	1049.8	1049.8	1049.8	1049.8	1049.8	1049.8	1049.8	1049.8	1049.8	1049.8
2.5°	1084.4	1079.4	1076.9	1071.9	1065.2	1061.1	1056.9	1051.1	1046.5	1039.4	1033.2
5°	1124.3	1114.4	1105.2	1092.7	1080.6	1070.2	1059.4	1047.3	1036.5	1024.4	1011.5
7.5°	1168.9	1153.1	1133.9	1111.9	1093.1	1076.9	1058.6	1040.7	1024.4	1005.3	987.8
10°	1211.8	1186.4	1161.0	1131.4	1104.0	1079.8	1055.2	1030.3	1009.0	985.3	963.7
12.5°	1245.1	1220.9	1183.0	1146.4	1110.6	1079.4	1048.6	1018.2	990.3	964.1	938.3
15°	1274.2	1234.2	1202.2	1162.2	1118.5	1076.1	1037.8	1002.4	968.7	937.9	911.6
17.5°	1282.5	1246.7	1211.8	1165.1	1118.1	1069.8	1025.7	983.6	946.2	912.0	882.5
20°	1281.7	1245.5	1207.6	1163.1	1113.1	1060.2	1011.1	964.1	921.6	882.5	850.9
22.5°	1269.2	1234.2	1195.9	1151.0	1100.2	1045.7	994.1	942.0	895.8	855.0	822.6
25°	1255.9	1211.8	1171.8	1126.4	1078.1	1027.8	972.8	916.6	868.3	825.9	789.2
27.5°	1244.2	1191.4	1142.2	1097.7	1048.2	1002.8	948.3	889.6	840.0	795.5	757.6
30°	1225.5	1169.7	1110.2	1061.5	1013.6	966.2	916.2	862.9	808.8	763.4	725.6
32.5°	1209.3	1138.9	1074.4	1019.4	971.6	929.9	882.1	830.9	778.0	734.7	693.9
35°	1191.4	1107.3	1039.8	975.3	927.5	882.1	844.2	798.0	745.5	699.8	663.1
37.5°	1170.1	1074.8	997.4	931.6	882.1	835.5	801.3	760.1	712.7	667.3	631.1
40°	1146.4	1041.5	952.4	884.6	831.3	784.7	755.9	719.3	678.9	634.0	600.3
42.5°	1116.4	1006.1	911.6	837.5	778.4	736.4	707.7	677.3	640.2	601.1	564.5
45°	1078.6	962.0	862.9	784.7	726.4	685.6	655.6	633.1	603.6	567.0	532.4
47.5°	1032.4	915.8	813.0	731.8	675.6	636.5	608.6	586.1	563.6	532.0	499.1
50°	971.2	862.9	764.3	681.4	621.9	584.0	559.1	541.2	520.8	494.9	465.0
52.5°	903.7	803.4	706.8	629.4	572.0	534.1	508.3	493.3	477.9	456.6	430.8
55°	825.5	743.9	651.9	576.1	519.9	482.5	462.1	447.5	434.6	418.4	396.7
57.5°	742.6	671.0	591.1	521.2	468.3	432.9	415.0	403.0	392.1	380.5	362.6
60°	655.6	604.8	529.1	465.0	418.8	389.6	372.6	361.3	351.3	341.8	328.4
62.5°	564.9	522.8	466.2	411.7	370.5	343.0	330.5	320.9	310.5	302.2	292.6
65°	472.9	448.7	409.6	358.4	320.5	298.0	286.0	278.1	273.1	263.5	256.0
67.5°	389.2	375.9	342.6	308.0	278.9	258.5	247.3	241.4	236.0	231.4	223.1
70°	309.7	300.1	281.0	256.4	233.5	216.0	207.7	206.1	198.6	194.0	189.8
72.5°	236.0	233.5	217.7	206.9	194.0	180.2	174.0	170.7	165.7	161.5	159.8
75°	167.8	171.5	166.5	161.1	154.9	143.6	138.2	136.5	132.0	130.7	128.6
77.5°	114.5	119.9	121.6	119.1	116.1	112.4	108.6	107.0	102.4	101.6	100.3
80°	72.0	79.9	82.8	82.4	81.2	81.6	77.0	76.6	74.5	73.3	74.5
82.5°	43.7	47.9	53.3	54.5	52.9	53.7	52.5	50.8	50.8	51.6	50.0
85°	23.7	24.1	26.6	28.3	30.4	32.1	30.4	30.8	30.4	30.4	29.1
87.5°	10.4	10.8	10.8	10.4	11.2	12.1	13.7	14.6	14.2	12.9	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°	1049.8	1049.8	1049.8	1049.8	1049.8	1049.8	1049.8	1049.8	1049.8	1049.8	1049.8
2.5°	1028.2	1025.3	1020.3	1016.1	1006.5	999.9	999.1	999.5	998.6	997.8	997.4
5°	1003.2	993.6	984.5	976.6	965.7	954.9	949.9	947.8	947.0	942.4	944.9
7.5°	976.6	962.0	951.2	936.2	923.3	914.1	905.4	901.2	900.4	894.1	892.5
10°	948.3	930.8	914.5	899.6	886.7	873.8	863.3	859.6	854.6	849.6	842.1
12.5°	920.4	898.7	880.8	864.2	846.7	832.1	823.8	818.4	812.1	807.6	805.1
15°	887.1	868.8	846.7	828.8	810.9	798.0	786.8	776.8	770.9	767.2	756.8
17.5°	857.1	833.0	812.1	795.1	775.5	760.9	749.3	741.0	731.0	723.5	716.8
20°	825.0	800.1	780.9	760.5	740.5	722.6	708.1	701.4	694.3	687.3	683.5
22.5°	790.5	768.9	747.2	726.0	704.7	685.6	676.4	666.9	660.6	653.5	648.6
25°	760.5	736.8	715.2	691.4	668.1	656.9	644.4	634.8	629.8	622.7	617.3
27.5°	728.5	705.6	679.8	655.2	641.5	622.3	614.0	606.5	599.8	592.8	589.0
30°	698.5	671.9	646.1	626.9	609.0	595.3	587.4	578.2	569.0	565.7	560.7
32.5°	666.9	638.1	615.7	596.5	581.5	564.9	557.4	549.9	541.2	537.0	532.4
35°	634.0	606.1	584.0	566.5	551.1	538.7	530.3	522.4	517.0	510.8	507.4
37.5°	599.4	575.3	554.1	536.6	522.4	512.4	502.0	495.8	488.3	482.5	480.0
40°	566.5	544.9	524.5	508.3	495.4	483.3	474.1	466.2	461.6	456.6	452.5
42.5°	537.0	514.5	497.0	480.0	468.3	456.6	447.5	441.7	433.8	431.7	425.8
45°	505.4	484.5	467.1	451.2	439.2	429.6	418.8	411.7	406.7	401.7	399.6
47.5°	473.3	454.2	437.9	423.3	410.9	400.0	391.7	384.2	378.8	374.2	371.7
50°	442.1	425.4	409.2	395.0	382.1	374.2	364.2	355.9	351.7	346.8	343.8
52.5°	409.2	395.5	378.0	365.9	353.8	343.4	333.4	328.0	323.9	319.7	317.6
55°	378.4	363.8	348.8	335.9	324.3	313.5	305.5	301.4	296.0	293.5	293.1
57.5°	346.8	331.8	319.3	307.6	294.3	286.0	278.9	273.9	269.3	267.2	267.2
60°	312.2	300.1	288.5	275.6	266.0	256.4	248.9	245.6	241.0	240.2	237.3
62.5°	280.6	269.3	258.1	246.0	237.3	227.7	222.3	217.7	215.2	211.9	208.6
65°	247.7	237.7	226.9	216.5	209.4	199.0	194.0	188.6	185.7	181.9	177.7
67.5°	216.0	206.5	196.5	186.9	181.1	171.1	167.8	161.1	159.0	154.9	151.1
70°	182.7	176.1	168.2	158.6	153.6	145.7	142.4	136.1	132.8	130.3	128.2
72.5°	154.0	147.8	138.6	132.4	126.1	121.1	115.7	112.8	109.9	107.8	107.4
75°	125.7	117.8	112.4	106.6	102.4	97.4	94.9	92.8	91.6	90.3	89.1
77.5°	96.2	92.8	87.4	81.6	78.3	76.2	74.5	73.7	72.4	72.0	70.8
80°	71.6	67.0	63.7	61.6	59.1	57.4	56.2	53.3	51.6	50.8	50.0
82.5°	47.5	46.2	43.7	41.6	39.5	39.1	37.9	37.0	36.6	36.6	36.2
85°	28.7	25.4	25.4	25.0	25.0	24.6	23.7	23.7	22.9	24.1	24.1
87.5°	11.7	11.7	10.8	10.8	11.2	10.4	10.0	10.0	10.0	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



TEST NUMBER: P243795

CATALOG NUMBER: S125RDRP-H850D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1049.8	1049.8	1049.8	1049.8
2.5°	997.4	995.3	995.7	993.2
5°	940.4	939.1	934.9	931.6
7.5°	888.3	882.9	882.5	879.2
10°	839.6	834.6	832.1	832.5
12.5°	797.2	791.7	791.7	788.4
15°	751.8	746.4	747.2	746.8
17.5°	714.3	710.6	707.7	705.2
20°	677.7	673.1	671.4	669.4
22.5°	644.0	640.6	641.1	641.1
25°	611.9	612.3	608.6	607.8
27.5°	583.6	582.8	581.9	580.3
30°	557.0	553.6	552.8	551.1
32.5°	529.5	529.1	525.8	527.0
35°	501.6	500.4	499.5	498.7
37.5°	475.8	473.3	472.9	472.1
40°	449.6	448.7	445.0	447.1
42.5°	421.3	419.6	419.6	419.6
45°	397.5	393.0	393.0	391.3
47.5°	370.9	369.2	368.4	365.5
50°	344.7	342.2	341.3	341.3
52.5°	317.6	317.2	318.0	316.4
55°	293.9	294.3	293.9	293.1
57.5°	268.1	266.0	266.0	266.4
60°	237.3	237.3	238.1	236.4
62.5°	207.7	206.9	204.0	203.1
65°	177.3	174.0	173.6	174.0
67.5°	150.3	149.0	146.9	147.4
70°	127.0	126.5	124.5	123.2
72.5°	106.1	106.1	104.9	104.9
75°	88.7	87.8	87.4	88.2
77.5°	68.3	66.2	67.0	65.8
80°	49.5	50.4	49.5	49.1
82.5°	36.6	35.8	36.2	35.8
85°	23.3	22.5	22.9	22.5
87.5°	9.6	10.0	10.0	9.2
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243795
 CATALOG NUMBER: S125RDRP-H850D940-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	16.90	18.44	17.27	18.76	19.07	17.60	19.14	17.97	19.46	19.77
	3H	17.99	19.37	18.37	19.70	20.06	19.08	20.46	19.46	20.79	21.15
	4H	18.35	19.64	18.74	19.99	20.37	19.60	20.90	20.00	21.25	21.62
	6H	18.56	19.76	18.98	20.13	20.52	19.96	21.16	20.37	21.52	21.91
	8H	18.62	19.76	19.05	20.15	20.55	20.06	21.20	20.48	21.59	21.99
	12H	18.66	19.75	19.09	20.13	20.56	20.12	21.21	20.55	21.59	22.02
4H	2H	18.43	19.72	18.82	20.07	20.45	18.47	19.77	18.87	20.12	20.50
	3H	19.47	20.54	19.88	20.94	21.34	20.14	21.21	20.55	21.61	22.01
	4H	19.83	20.80	20.26	21.21	21.65	20.73	21.70	21.17	22.11	22.55
	6H	20.08	20.92	20.53	21.36	21.82	21.17	22.01	21.62	22.45	22.91
	8H	20.14	20.92	20.60	21.37	21.84	21.29	22.08	21.75	22.52	22.99
	12H	20.19	20.89	20.67	21.37	21.84	21.38	22.08	21.86	22.56	23.03
8H	4H	20.19	20.98	20.66	21.42	21.89	20.89	21.67	21.35	22.12	22.58
	6H	20.49	21.13	20.98	21.63	22.10	21.41	22.06	21.91	22.55	23.03
	8H	20.58	21.16	21.09	21.67	22.16	21.59	22.17	22.10	22.68	23.17
	12H	20.67	21.18	21.18	21.67	22.24	21.72	22.24	22.23	22.73	23.30
12H	4H	20.22	20.92	20.70	21.40	21.87	20.88	21.58	21.36	22.06	22.53
	6H	20.52	21.10	21.03	21.61	22.10	21.40	21.98	21.91	22.49	22.98
	8H	20.65	21.17	21.16	21.66	22.22	21.62	22.13	22.13	22.63	23.19