

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: P242905

Luminaire Tested: S125RDRP-S850D927-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242905
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-S850D927-X4F0-XX-UDD-A-W
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

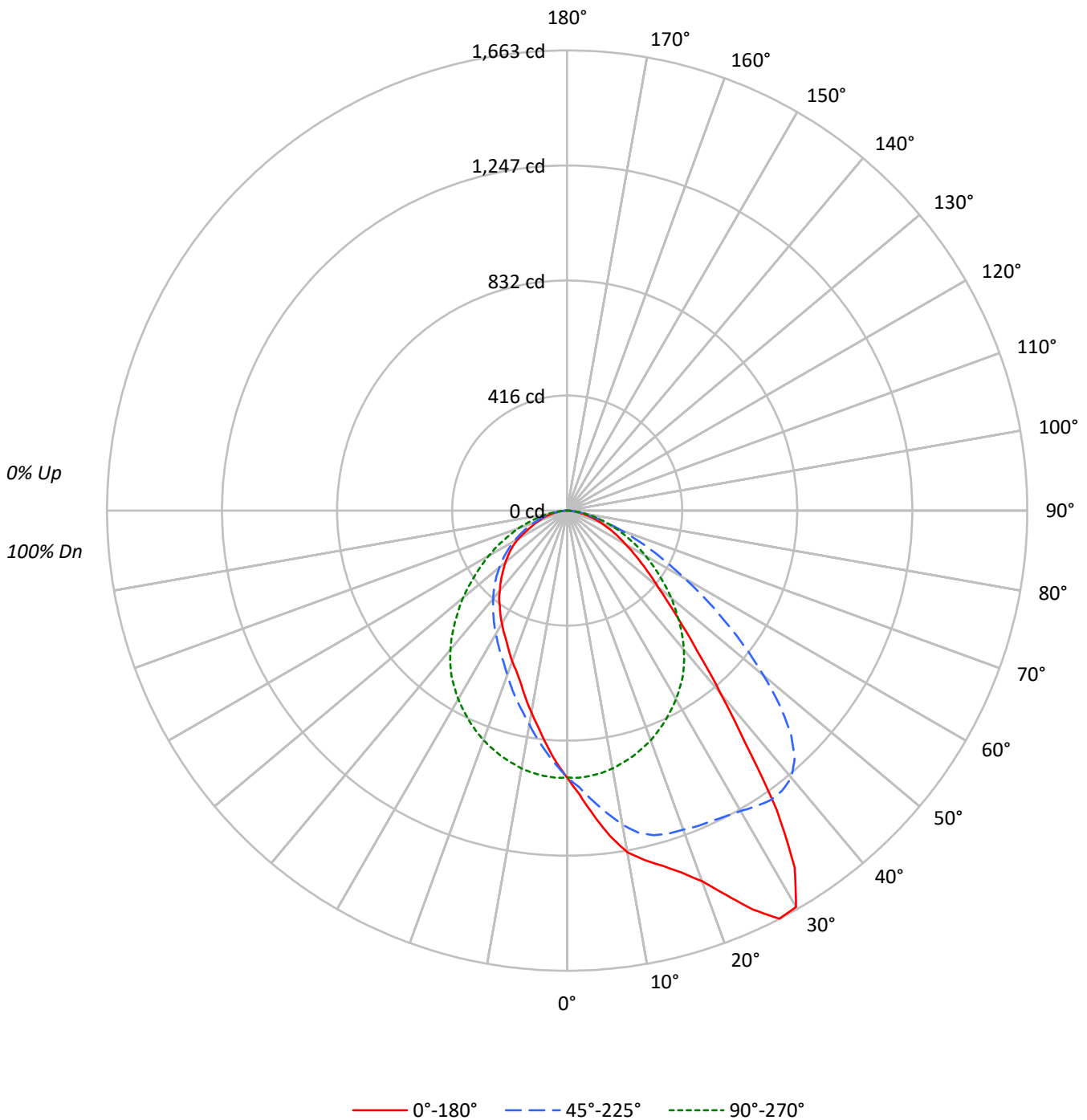
Lumens per Lamp: N/A
Luminaire Lumens: 2499.8 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.21 / 1.48
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

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	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	69	78	72	67	76	70	66	73	69	65					63				
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57					55				
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50					48				
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44					42				
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39					37				
8	63	50	42	36	61	49	42	36	48	41	36	47	40	36	46	40	35					34				
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32					30				
10	55	42	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6857	6857	6857	6857	6857
5°	7889	7500	6866	6239	6064
10°	9049	8318	6832	5671	5351
15°	9774	8938	6761	5208	4756
20°	10779	9280	6680	4781	4391
25°	12474	9706	6572	4469	4075
30°	13574	10291	6459	4222	3868
35°	11450	11093	6327	4028	3677
40°	7996	11693	6089	3859	3513
45°	5931	11505	5768	3698	3352
50°	4730	10252	5435	3525	3214
55°	4015	8608	5021	3347	3092
60°	3468	6975	4651	3141	2894
65°	3091	5568	4250	2911	2491
70°	2716	4272	3892	2641	2271
75°	2351	3185	3372	2351	2131
80°	1785	2284	2836	2092	1785
85°	1484	1615	2226	1778	1680

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 11505 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.5	3.7
10°-20°	271.3	10.9
20°-30°	430.1	17.2
30°-40°	519.7	20.8
40°-50°	462.8	18.5
50°-60°	354.9	14.2
60°-70°	230.4	9.2
70°-80°	111.8	4.5
80°-90°	26.3	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°	793.9	31.8
0°-40°	1313.6	52.5
0°-60°	2131.2	85.3
0°-90°	2499.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2499.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	965	965	965	965	965	
5°	1106	1051	962	874	850	110
15°	1328	1215	919	708	646	380
25°	1591	1238	838	570	520	732
35°	1320	1278	729	464	424	800
45°	590	1145	574	368	334	468
55°	324	695	405	270	250	293
65°	184	331	253	173	148	183
75°	86	116	123	86	78	91
85°	18	20	27	22	21	22
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°	964.8	964.8	964.8	964.8	964.8	964.8	964.8	964.8	964.8	964.8	964.8
2.5°	1027.4	1026.6	1028.2	1023.8	1024.2	1017.5	1017.5	1012.3	1005.6	1000.5	998.1
5°	1105.8	1106.6	1105.0	1099.1	1095.1	1089.2	1082.5	1070.6	1060.7	1051.2	1043.6
7.5°	1185.8	1186.6	1181.5	1180.3	1170.0	1163.6	1148.6	1133.1	1119.7	1101.9	1089.2
10°	1253.9	1253.6	1248.0	1243.7	1234.9	1223.8	1209.2	1190.2	1172.4	1152.6	1133.5
12.5°	1293.6	1292.4	1291.6	1286.0	1278.1	1268.6	1256.7	1238.1	1215.1	1193.0	1170.0
15°	1328.4	1325.6	1320.5	1313.8	1302.3	1290.8	1276.9	1260.3	1239.3	1214.7	1194.1
17.5°	1370.4	1370.8	1362.9	1355.7	1340.7	1321.7	1301.1	1275.7	1248.8	1223.8	1203.3
20°	1425.1	1423.9	1415.9	1397.7	1379.9	1354.6	1330.0	1297.1	1262.3	1227.0	1199.7
22.5°	1503.5	1499.9	1491.6	1466.2	1436.1	1401.7	1360.9	1318.9	1274.9	1233.8	1195.7
25°	1590.6	1588.2	1572.0	1544.3	1505.5	1455.2	1406.0	1351.0	1290.4	1237.7	1194.1
27.5°	1662.7	1657.9	1643.3	1617.1	1579.1	1524.9	1457.1	1385.8	1313.8	1244.4	1184.6
30°	1654.0	1659.9	1658.3	1647.6	1620.7	1573.2	1511.8	1429.0	1339.1	1253.9	1179.1
32.5°	1529.6	1534.8	1552.6	1581.5	1590.2	1578.3	1536.3	1461.5	1367.6	1267.8	1174.7
35°	1319.7	1326.8	1353.8	1396.1	1451.6	1497.9	1507.4	1466.2	1382.7	1278.5	1170.4
37.5°	1052.7	1099.1	1117.3	1160.5	1247.6	1332.0	1405.2	1421.9	1376.7	1276.1	1165.2
40°	861.8	871.3	911.7	962.0	1032.5	1121.3	1238.1	1322.5	1325.2	1260.3	1148.6
42.5°	706.6	719.3	743.8	781.4	839.3	928.0	1049.6	1167.6	1231.4	1216.7	1126.8
45°	590.1	599.3	619.4	650.3	696.7	770.0	873.7	1002.4	1104.6	1144.6	1084.4
47.5°	499.0	503.8	522.4	547.4	583.0	638.5	722.8	839.3	960.9	1042.1	1026.2
50°	427.8	433.3	446.8	464.6	493.5	538.7	602.8	695.9	822.2	927.2	948.2
52.5°	372.3	376.7	383.8	400.4	423.0	455.1	503.8	585.8	696.3	809.6	865.0
55°	324.0	327.2	333.9	343.4	362.4	387.4	432.1	490.3	582.2	694.7	766.0
57.5°	282.8	284.4	288.3	297.8	311.7	330.3	364.4	417.5	484.0	589.7	668.2
60°	244.0	245.6	251.1	257.0	267.3	284.0	309.3	343.8	407.2	490.7	570.3
62.5°	213.1	213.9	215.5	221.4	230.1	242.0	260.6	287.1	334.3	405.2	479.2
65°	183.8	184.2	185.0	189.7	195.3	204.8	217.8	237.6	275.7	331.1	397.7
67.5°	154.5	155.3	158.0	159.6	166.3	171.1	179.4	195.3	224.6	264.2	318.0
70°	130.7	130.3	133.1	135.1	137.0	143.0	148.1	160.4	177.0	205.6	248.7
72.5°	108.5	107.3	108.1	108.5	111.3	114.9	120.0	126.3	138.2	155.7	186.2
75°	85.6	85.9	85.9	86.7	88.7	90.3	91.9	95.8	103.0	116.0	133.9
77.5°	64.2	63.4	65.4	65.4	66.9	68.9	70.1	71.7	74.5	80.4	91.1
80°	43.6	43.6	44.0	45.2	44.8	45.5	47.5	49.1	52.7	55.8	59.0
82.5°	30.9	30.5	30.9	30.9	30.9	31.7	32.1	32.1	32.9	34.1	36.0
85°	18.2	18.2	18.6	18.6	19.0	19.0	19.4	19.4	19.4	19.8	20.2
87.5°	8.7	8.3	7.9	7.9	8.3	9.1	8.7	8.3	8.3	8.3	8.7
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°	964.8	964.8	964.8	964.8	964.8	964.8	964.8	964.8	964.8	964.8	964.8
2.5°	998.1	995.3	990.2	985.4	979.5	974.3	970.8	966.4	960.9	954.1	948.6
5°	1035.3	1026.6	1015.1	1005.2	992.5	982.6	972.3	962.4	952.5	939.9	928.8
7.5°	1076.5	1059.5	1043.6	1023.0	1004.4	988.2	972.3	956.1	940.7	923.2	907.0
10°	1113.7	1092.0	1067.8	1040.1	1014.7	990.6	968.4	946.6	923.6	903.4	881.6
12.5°	1148.6	1118.9	1090.4	1053.5	1021.9	991.0	961.3	932.7	907.8	880.1	856.3
15°	1166.8	1139.1	1108.2	1065.4	1023.0	987.4	954.1	918.9	888.4	859.1	832.9
17.5°	1177.5	1148.2	1112.6	1071.0	1025.4	981.1	939.1	901.4	866.6	832.9	804.0
20°	1172.8	1144.6	1107.8	1068.6	1019.1	972.3	926.0	883.2	843.2	807.2	775.9
22.5°	1161.3	1132.0	1096.7	1054.7	1008.4	958.1	907.8	861.4	819.1	781.4	746.6
25°	1149.8	1110.2	1073.7	1033.3	988.6	939.5	888.4	838.1	793.3	755.3	718.1
27.5°	1138.7	1090.8	1045.6	1006.8	958.9	914.5	864.6	812.7	766.0	727.6	689.6
30°	1122.5	1067.0	1015.9	970.4	925.6	884.0	837.3	787.0	738.7	698.7	659.8
32.5°	1102.3	1042.4	985.0	930.8	888.0	846.8	805.6	758.1	711.3	669.8	630.1
35°	1086.0	1010.8	949.8	893.9	846.0	806.0	768.0	729.2	682.0	639.3	600.8
37.5°	1063.4	980.7	911.7	850.8	800.8	761.2	730.7	693.9	649.9	608.4	572.7
40°	1043.2	947.4	870.2	810.0	756.9	714.5	686.4	656.3	617.1	578.7	543.0
42.5°	1016.3	916.9	828.2	764.8	711.3	670.9	642.4	617.1	585.8	550.1	511.3
45°	979.5	875.7	785.0	717.7	663.8	623.8	597.3	573.9	548.9	515.7	482.4
47.5°	935.5	836.5	741.0	667.0	615.1	577.5	551.3	531.9	513.7	484.8	451.1
50°	880.5	785.8	693.1	621.8	565.6	530.3	506.2	491.5	475.3	449.5	422.6
52.5°	815.5	733.5	643.2	569.9	517.7	485.2	462.2	447.6	434.9	415.1	389.7
55°	746.6	672.5	589.3	523.2	474.5	441.2	419.0	405.2	397.3	379.4	359.2
57.5°	668.6	611.5	536.3	471.7	427.8	394.5	377.8	365.6	356.5	343.4	328.3
60°	586.2	548.9	483.2	422.6	383.0	351.7	337.1	327.2	318.8	308.1	297.1
62.5°	502.6	478.1	423.0	373.1	337.4	312.5	299.0	290.3	280.4	274.1	263.4
65°	429.7	405.6	366.0	325.2	291.5	270.5	260.6	252.7	246.8	238.8	231.3
67.5°	348.9	337.8	308.5	278.0	253.5	233.3	224.6	218.2	211.5	206.7	201.2
70°	275.7	270.9	251.5	232.9	210.3	197.6	189.7	187.3	178.6	173.9	170.3
72.5°	210.7	209.1	200.0	188.5	174.3	163.6	156.4	153.7	148.9	145.4	143.4
75°	153.3	154.1	152.1	143.8	137.8	130.7	124.4	122.8	118.8	115.7	113.7
77.5°	104.6	108.5	107.7	107.3	104.6	99.4	96.6	95.5	91.1	89.9	89.5
80°	66.5	70.9	74.9	74.5	73.7	72.5	70.5	69.3	67.3	66.1	65.4
82.5°	38.8	42.8	45.9	48.7	48.7	47.5	46.3	45.9	45.9	45.2	45.2
85°	21.0	21.8	23.0	25.7	27.7	28.1	27.7	27.3	26.1	26.5	26.9
87.5°	9.1	9.1	9.5	9.5	9.1	11.1	12.3	12.7	11.9	11.1	10.3
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°	964.8	964.8	964.8	964.8	964.8	964.8	964.8	964.8	964.8	964.8	964.8
2.5°	944.6	939.1	935.1	927.2	921.6	919.3	914.9	913.7	918.1	914.9	914.5
5°	920.5	909.0	899.9	890.8	880.9	874.5	865.0	863.4	861.1	857.5	856.7
7.5°	892.3	878.1	867.4	852.3	840.1	830.2	818.3	813.5	811.1	806.8	799.7
10°	863.8	846.0	830.2	815.1	798.9	785.8	773.9	764.8	758.9	753.3	750.9
12.5°	835.7	817.5	796.1	777.1	758.5	743.4	730.0	724.8	718.1	711.3	705.0
15°	806.4	782.2	760.1	739.1	723.6	707.8	695.1	686.4	676.5	673.7	663.0
17.5°	775.1	752.5	726.4	703.8	686.4	669.8	655.9	645.6	638.1	627.4	622.2
20°	746.2	718.1	692.7	672.5	652.7	632.1	617.9	609.5	602.4	594.1	590.1
22.5°	715.3	688.0	661.8	637.3	617.1	596.9	587.8	579.1	570.7	563.2	557.7
25°	685.2	657.5	630.1	605.6	584.6	569.9	558.1	548.2	543.8	536.3	530.7
27.5°	655.1	625.8	598.1	572.3	556.1	541.4	531.9	524.0	515.7	508.9	503.8
30°	626.2	596.1	565.2	545.8	528.4	514.5	503.8	496.3	490.3	484.4	480.8
32.5°	597.3	566.0	539.4	518.1	501.8	490.3	479.2	472.1	465.8	459.0	454.7
35°	566.0	534.3	512.1	491.5	475.3	464.2	456.7	446.4	441.2	436.5	432.1
37.5°	537.9	507.8	483.2	465.4	450.3	439.6	429.7	424.6	417.9	413.9	410.3
40°	506.2	479.2	457.5	438.4	428.1	415.9	406.8	399.6	394.9	389.3	385.4
42.5°	477.7	453.1	432.1	415.5	402.0	392.1	383.4	376.3	369.9	366.4	363.2
45°	451.1	426.2	405.6	389.7	377.8	367.9	358.8	355.3	347.4	342.6	341.0
47.5°	423.4	400.8	380.6	366.0	353.7	344.6	335.9	327.9	324.0	319.2	316.9
50°	395.3	373.9	355.3	341.0	329.1	318.8	310.9	306.2	300.2	295.9	292.7
52.5°	367.2	347.7	329.1	315.7	305.8	295.5	286.4	281.6	276.1	273.7	271.7
55°	340.6	319.6	303.8	290.3	279.6	270.1	261.8	257.0	253.5	250.7	249.9
57.5°	310.1	293.1	278.0	266.2	254.7	245.6	238.0	233.7	230.5	230.1	227.3
60°	280.4	265.4	251.9	238.8	229.3	221.0	214.7	209.5	206.4	206.0	205.2
62.5°	250.7	236.5	224.2	213.1	204.8	196.8	190.9	185.0	183.4	181.0	179.0
65°	221.4	208.3	198.0	188.9	179.8	173.1	167.1	163.6	159.2	156.8	152.5
67.5°	192.5	181.8	171.9	164.4	156.8	150.1	145.0	139.8	136.6	134.7	131.1
70°	164.0	156.1	146.1	137.8	132.3	127.1	123.2	117.2	115.3	113.7	112.1
72.5°	137.0	130.3	122.4	116.0	110.5	105.8	101.0	99.0	97.0	95.5	94.7
75°	112.1	105.4	98.2	93.5	89.5	85.6	83.2	81.2	80.4	80.0	78.4
77.5°	87.1	83.2	77.2	72.9	70.1	68.5	66.1	65.4	65.7	63.8	63.4
80°	63.0	61.0	56.2	54.7	52.7	51.1	49.9	47.9	45.9	45.2	44.0
82.5°	42.8	40.8	39.6	36.8	35.3	34.5	33.3	32.9	33.7	32.5	32.1
85°	25.0	23.0	22.2	21.8	21.0	21.8	21.4	21.0	20.6	20.2	20.6
87.5°	9.9	9.9	9.5	10.3	9.1	9.5	9.5	9.1	9.1	9.1	8.7
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: P242905

CATALOG NUMBER: S125RDRP-S850D927-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	964.8	964.8	964.8	964.8
2.5°	914.1	909.8	908.6	910.2
5°	852.7	848.8	850.8	850.0
7.5°	800.8	795.7	789.8	791.3
10°	745.8	741.8	739.5	741.4
12.5°	699.5	697.5	695.5	693.9
15°	658.3	653.5	651.5	646.4
17.5°	618.7	617.1	611.9	608.4
20°	584.2	582.6	577.5	580.6
22.5°	555.7	551.7	550.9	548.9
25°	529.1	524.0	522.0	519.6
27.5°	502.2	499.4	496.7	495.9
30°	476.1	473.3	471.3	471.3
32.5°	452.7	450.7	448.7	448.3
35°	430.1	427.0	426.2	423.8
37.5°	406.4	403.6	403.6	404.0
40°	383.8	381.8	381.4	378.6
42.5°	359.6	358.8	357.3	356.5
45°	338.2	335.5	335.5	333.5
47.5°	315.7	313.3	313.7	311.3
50°	293.1	291.9	291.5	290.7
52.5°	270.5	270.1	272.1	270.1
55°	250.7	249.5	251.9	249.5
57.5°	227.3	226.6	228.9	227.3
60°	204.4	202.0	203.2	203.6
62.5°	177.0	175.9	176.6	174.3
65°	151.7	150.5	148.9	148.1
67.5°	131.9	128.3	128.3	129.1
70°	109.7	109.7	109.3	109.3
72.5°	94.3	93.9	93.1	92.7
75°	78.4	78.8	78.0	77.6
77.5°	61.4	59.4	60.2	59.4
80°	44.0	43.6	44.8	43.6
82.5°	32.5	32.1	32.5	31.7
85°	21.0	20.6	20.2	20.6
87.5°	9.1	8.7	8.7	8.7
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242905
 CATALOG NUMBER: S125RDRP-S850D927-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	16.31	17.85	16.68	18.16	18.48	17.29	18.83	17.66	19.14	19.46
	3H	17.44	18.82	17.82	19.14	19.51	18.77	20.15	19.15	20.47	20.84
	4H	17.83	19.12	18.23	19.46	19.84	19.28	20.57	19.68	20.92	21.30
	6H	18.06	19.25	18.47	19.62	20.01	19.63	20.82	20.04	21.19	21.58
	8H	18.11	19.25	18.54	19.64	20.04	19.73	20.86	20.16	21.25	21.66
	12H	18.15	19.23	18.58	19.61	20.04	19.78	20.87	20.21	21.25	21.68
4H	2H	17.90	19.19	18.30	19.54	19.92	18.14	19.43	18.54	19.78	20.16
	3H	18.97	20.04	19.38	20.44	20.84	19.80	20.87	20.21	21.27	21.67
	4H	19.35	20.32	19.79	20.73	21.17	20.39	21.35	20.82	21.77	22.20
	6H	19.61	20.45	20.07	20.89	21.35	20.82	21.65	21.27	22.10	22.55
	8H	19.67	20.45	20.13	20.90	21.36	20.94	21.72	21.40	22.16	22.63
	12H	19.71	20.41	20.20	20.89	21.36	21.02	21.72	21.50	22.20	22.67
8H	4H	19.73	20.51	20.19	20.95	21.42	20.54	21.32	21.00	21.76	22.23
	6H	20.03	20.68	20.53	21.17	21.65	21.05	21.70	21.55	22.19	22.67
	8H	20.12	20.70	20.64	21.21	21.70	21.23	21.81	21.74	22.32	22.80
	12H	20.20	20.72	20.71	21.21	21.77	21.36	21.88	21.87	22.37	22.93
12H	4H	19.75	20.45	20.23	20.93	21.40	20.53	21.22	21.01	21.70	22.17
	6H	20.06	20.65	20.58	21.15	21.64	21.04	21.62	21.56	22.13	22.62
	8H	20.20	20.71	20.71	21.20	21.77	21.26	21.77	21.77	22.26	22.83