

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: P242802

Luminaire Tested: S125DRP-S850D927-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P242802  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DRP-S850D927-X4F0-XX-UDD-A-W  
Description: DEFINE 5 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER  
STANDARD LIGHT ENGINE  
Light Source: (92) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

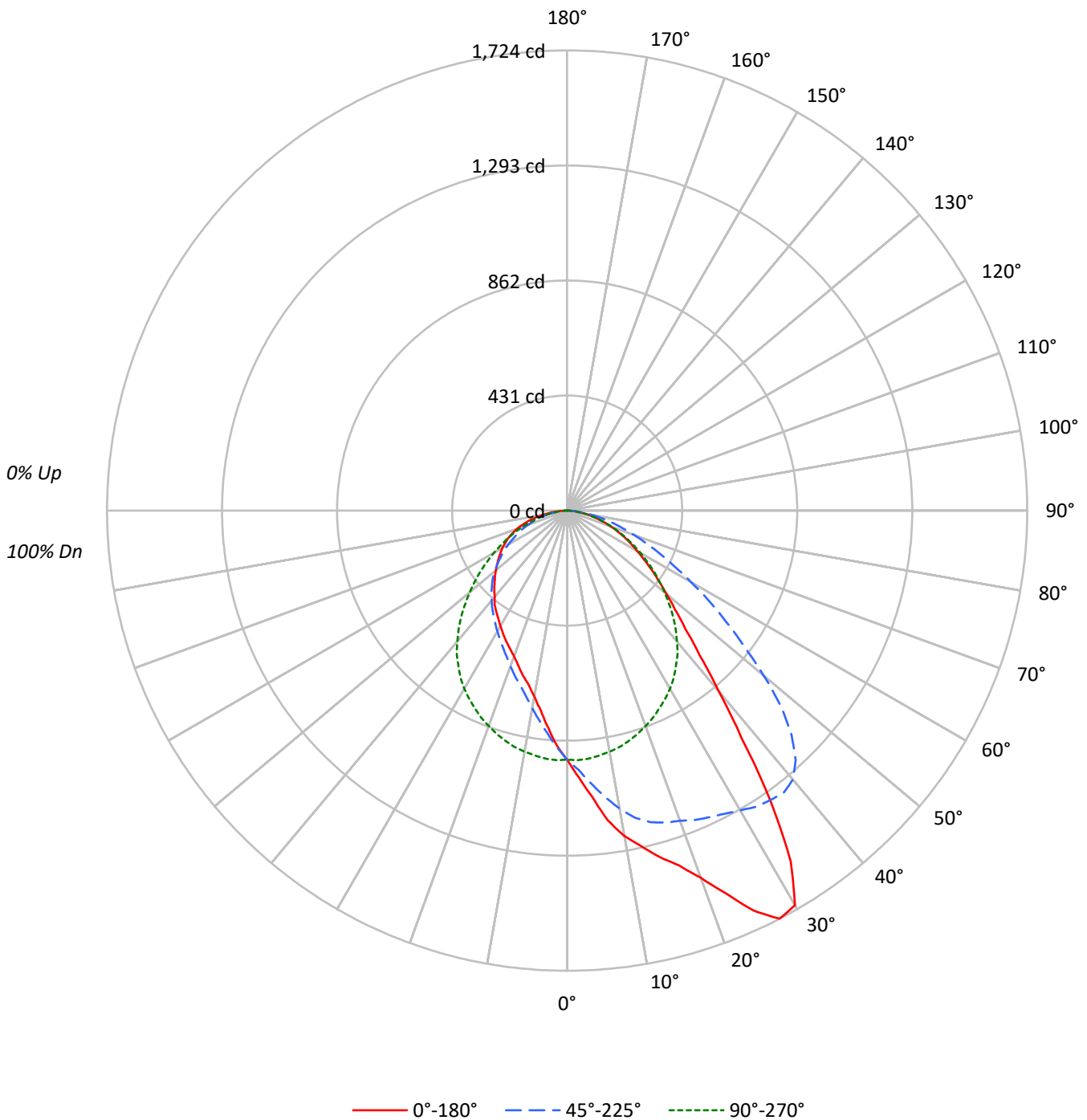
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2633.3 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.53  
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	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	92	86	80	98	90	84	79	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61					61			
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53					53			
5	78	65	56	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46					46			
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41					41			
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	36					36			
8	62	49	41	35	61	48	40	35	47	40	34	46	39	34	44	39	34	32					32			
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29					29			
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26					26			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	6632	6632	6632	6632	6632
5°	7680	7316	6655	5985	5827
10°	8935	8181	6620	5422	5105
15°	9891	8891	6571	4984	4710
20°	11072	9352	6495	4694	4391
25°	12971	9936	6408	4451	4236
30°	14010	10642	6323	4287	4102
35°	11519	11495	6162	4175	4014
40°	8187	12208	5939	4082	3917
45°	6290	11947	5637	4001	3862
50°	5369	10629	5264	3902	3853
55°	4781	9026	4898	3760	3887
60°	4313	7623	4499	3626	3986
65°	3984	6495	4097	3444	4090
70°	3622	5523	3678	3211	4148
75°	3196	4720	3240	2958	4111
80°	2689	3876	2644	2513	3761
85°	2128	2813	1908	2063	3034

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 11947 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.8	3.4
10°-20°	267.5	10.2
20°-30°	434.5	16.5
30°-40°	531.0	20.2
40°-50°	481.8	18.3
50°-60°	383.7	14.6
60°-70°	267.3	10.1
70°-80°	142.4	5.4
80°-90°	35.3	1.3
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°	791.9	30.1
0°-40°	1322.9	50.2
0°-60°	2188.4	83.1
0°-90°	2633.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2633.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	933	933	933	933	933	
5°	1076	1025	933	839	817	108
15°	1344	1208	893	677	640	384
25°	1654	1267	817	568	540	758
35°	1328	1325	710	481	463	815
45°	626	1189	561	398	384	498
55°	386	728	395	303	314	347
65°	237	386	244	205	243	235
75°	116	172	118	108	150	125
85°	26	34	23	25	37	30
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°	933.1	933.1	933.1	933.1	933.1	933.1	933.1	933.1	933.1	933.1	933.1
2.5°	1000.5	998.9	997.3	994.1	996.5	989.8	986.6	981.1	974.3	972.0	969.2
5°	1076.5	1078.5	1080.5	1072.2	1073.0	1067.4	1054.7	1044.4	1036.1	1025.4	1017.9
7.5°	1170.8	1164.8	1165.2	1160.1	1151.0	1143.5	1131.2	1114.2	1098.7	1081.3	1066.2
10°	1238.1	1238.5	1235.0	1228.6	1218.7	1211.6	1194.2	1177.5	1157.3	1133.6	1116.5
12.5°	1288.8	1290.8	1286.0	1276.9	1273.4	1255.2	1242.5	1221.9	1196.9	1179.1	1151.0
15°	1344.3	1339.9	1336.7	1326.1	1317.7	1301.1	1279.3	1258.7	1232.6	1208.4	1184.3
17.5°	1393.4	1396.9	1391.8	1383.9	1359.3	1339.9	1313.0	1286.8	1255.5	1225.4	1197.3
20°	1463.9	1467.1	1457.9	1440.9	1410.0	1390.6	1352.2	1315.8	1278.1	1236.5	1204.9
22.5°	1551.8	1547.9	1534.8	1506.7	1480.9	1440.9	1398.5	1352.2	1302.7	1254.4	1209.6
25°	1654.0	1637.4	1629.8	1597.8	1562.5	1509.8	1452.8	1387.8	1329.2	1267.0	1213.2
27.5°	1723.7	1717.0	1706.3	1680.1	1639.7	1579.9	1512.6	1435.0	1356.2	1280.1	1212.4
30°	1707.1	1707.9	1708.7	1701.5	1677.8	1635.4	1568.4	1483.3	1385.1	1296.7	1215.2
32.5°	1559.7	1577.6	1594.6	1616.8	1631.0	1631.4	1595.8	1520.9	1419.1	1315.8	1213.6
35°	1327.6	1332.0	1376.7	1421.1	1481.3	1528.0	1559.3	1525.3	1440.1	1324.9	1212.4
37.5°	1073.4	1095.1	1128.8	1178.7	1269.0	1342.7	1439.3	1472.6	1432.6	1332.4	1212.0
40°	882.4	902.3	922.5	973.5	1046.8	1141.1	1254.8	1351.8	1374.4	1315.8	1200.1
42.5°	735.1	749.8	772.7	808.0	866.2	947.0	1054.3	1188.6	1280.5	1267.4	1175.1
45°	625.8	635.7	653.1	683.6	728.0	793.3	889.2	1027.8	1148.6	1188.6	1132.8
47.5°	548.2	548.6	562.8	584.6	618.3	678.5	750.2	864.2	994.5	1086.8	1073.8
50°	485.6	483.6	494.3	512.5	537.9	574.7	642.4	729.2	853.1	961.3	991.4
52.5°	431.7	432.5	438.1	450.3	470.5	500.6	547.0	623.0	724.4	836.1	899.5
55°	385.8	384.2	391.7	400.8	416.3	436.9	473.3	533.1	619.1	728.4	802.0
57.5°	341.4	345.8	348.9	355.3	368.7	383.0	415.5	461.4	532.3	629.4	707.4
60°	303.4	307.7	310.1	316.5	326.8	338.6	362.4	398.1	455.5	536.3	613.5
62.5°	269.3	272.5	272.9	278.4	286.4	297.8	315.3	343.8	386.2	454.3	529.5
65°	236.9	236.9	238.4	244.4	248.3	258.6	272.9	294.7	331.1	386.2	450.7
67.5°	205.2	207.1	206.7	209.5	213.1	221.8	232.5	250.7	279.6	321.2	374.7
70°	174.3	175.9	175.5	177.4	181.4	186.6	194.9	211.9	231.3	265.8	310.1
72.5°	146.5	146.9	145.8	148.5	150.5	154.9	164.4	171.5	189.3	217.0	251.5
75°	116.4	117.2	118.0	119.6	122.0	124.4	129.1	138.2	150.1	171.9	195.3
77.5°	92.7	90.7	93.1	92.7	93.9	95.8	100.2	105.4	115.7	130.3	149.7
80°	65.7	66.1	66.1	66.5	68.5	69.7	73.3	76.8	84.4	94.7	107.3
82.5°	43.6	44.8	44.0	44.8	46.3	47.1	48.7	51.5	55.1	62.6	70.9
85°	26.1	24.2	25.0	25.7	25.7	26.1	27.7	28.9	31.3	34.5	38.0
87.5°	9.5	10.3	10.7	10.7	11.1	11.1	12.7	12.7	13.9	15.1	16.6
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°	933.1	933.1	933.1	933.1	933.1	933.1	933.1	933.1	933.1	933.1	933.1
2.5°	966.8	964.0	960.9	955.3	948.6	945.0	939.5	935.9	928.8	922.8	916.5
5°	1008.8	998.5	989.0	976.7	963.2	954.5	944.2	932.8	920.9	908.6	895.1
7.5°	1050.8	1033.7	1015.1	995.7	976.7	958.9	942.3	925.2	909.8	890.4	874.1
10°	1093.2	1070.2	1045.6	1016.7	988.6	964.0	939.1	917.3	895.1	871.4	850.4
12.5°	1135.5	1103.1	1065.8	1033.4	998.1	967.2	936.7	907.4	878.1	851.2	825.8
15°	1151.0	1124.1	1092.0	1046.8	1008.8	968.0	929.2	893.1	859.5	830.2	799.3
17.5°	1166.0	1131.6	1097.5	1053.9	1004.4	960.5	916.5	877.3	840.1	803.2	775.1
20°	1169.6	1134.0	1097.9	1055.5	1004.4	952.2	908.2	858.7	817.9	779.5	743.0
22.5°	1168.4	1126.8	1086.8	1042.9	993.3	946.2	890.8	840.1	794.9	757.3	718.9
25°	1159.7	1116.5	1067.4	1023.5	974.3	923.2	869.4	817.1	771.9	728.8	691.1
27.5°	1154.6	1099.9	1046.0	995.3	948.2	901.1	848.8	794.9	745.4	701.4	666.6
30°	1143.1	1081.7	1019.1	965.6	916.9	871.4	822.6	770.4	718.1	675.3	637.3
32.5°	1132.8	1058.7	991.8	932.4	880.1	836.1	792.1	743.0	691.9	648.4	610.3
35°	1118.9	1036.1	960.5	894.7	839.7	794.1	756.5	710.2	663.0	621.0	584.6
37.5°	1102.7	1006.8	926.8	858.3	798.5	751.0	715.3	679.3	632.1	590.9	558.5
40°	1082.9	975.1	889.2	818.7	756.1	706.2	673.7	640.1	602.4	564.8	529.9
42.5°	1057.9	946.6	851.2	773.9	712.1	663.8	629.4	602.0	569.9	535.5	503.8
45°	1026.2	911.0	809.6	728.0	665.4	617.5	582.2	560.8	535.9	502.6	475.3
47.5°	984.2	870.6	766.0	681.6	617.1	572.7	539.1	518.1	499.8	473.7	448.0
50°	924.4	824.2	718.1	634.5	569.9	525.2	494.7	476.1	461.0	442.0	421.0
52.5°	857.5	766.0	670.9	588.6	524.8	480.8	451.1	435.3	423.4	411.1	390.5
55°	785.8	706.6	616.3	537.9	478.9	435.7	409.5	395.3	385.0	374.7	362.0
57.5°	708.6	644.4	561.6	488.4	433.7	393.3	368.7	354.1	345.8	340.2	332.3
60°	626.2	573.1	504.2	438.8	385.8	350.9	327.2	316.5	309.7	305.4	299.8
62.5°	549.7	508.6	446.0	387.8	343.0	310.5	289.9	279.6	273.3	271.7	267.3
65°	474.9	441.2	388.5	339.0	299.4	271.3	253.5	243.6	239.6	237.2	237.6
67.5°	399.6	377.9	333.9	290.3	257.8	232.9	218.2	210.7	208.7	205.2	205.2
70°	331.9	316.5	280.8	244.0	215.9	197.6	185.0	177.0	175.1	173.5	173.1
72.5°	272.1	259.0	229.3	201.6	177.0	161.6	151.7	147.7	144.2	143.4	143.4
75°	213.5	206.0	181.4	158.0	140.6	129.5	122.4	118.0	115.7	115.3	115.7
77.5°	161.2	154.1	137.0	119.6	108.1	99.4	92.7	91.5	88.3	88.7	87.9
80°	114.1	109.7	99.8	86.7	77.6	70.5	67.3	64.6	63.8	62.6	63.8
82.5°	74.9	70.1	64.2	57.0	49.9	46.3	43.2	42.8	42.4	42.0	42.0
85°	40.8	41.2	37.2	30.9	27.7	25.3	23.4	23.4	23.0	22.6	23.0
87.5°	17.4	16.6	15.1	13.9	11.9	10.7	10.3	10.7	9.5	9.1	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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	933.1	933.1	933.1	933.1	933.1	933.1	933.1	933.1	933.1	933.1	933.1
2.5°	912.9	908.6	905.0	897.1	892.7	886.8	882.1	887.2	881.7	884.0	880.5
5°	888.4	877.3	869.4	857.9	848.0	838.9	832.1	831.0	827.8	826.2	821.5
7.5°	859.1	846.4	833.3	819.1	807.2	794.5	787.0	779.9	775.5	770.0	765.6
10°	833.7	815.1	799.3	781.1	765.2	751.3	740.3	734.7	729.6	722.0	719.3
12.5°	802.4	783.0	762.8	743.0	728.0	712.1	703.0	693.9	690.8	682.0	681.6
15°	778.7	749.8	730.8	711.0	690.0	677.3	669.4	660.3	656.3	650.4	646.0
17.5°	749.4	723.2	699.5	679.3	660.3	650.0	639.7	633.3	626.6	622.2	615.1
20°	716.9	692.3	668.6	646.8	632.9	620.6	612.7	606.8	599.7	597.7	590.5
22.5°	689.6	661.8	639.3	621.8	606.4	592.1	583.4	579.9	575.5	568.4	568.4
25°	659.5	631.3	611.9	593.7	580.2	567.6	561.6	556.5	551.7	547.4	545.8
27.5°	634.1	609.2	585.4	568.8	557.3	545.4	540.2	533.5	529.9	526.4	521.6
30°	607.2	581.4	561.2	545.4	532.7	522.4	516.9	512.5	509.3	506.2	503.8
32.5°	579.5	556.1	536.7	521.2	508.6	501.4	496.7	493.9	490.3	486.4	483.2
35°	555.7	529.5	510.5	497.1	487.2	481.2	475.7	472.9	468.9	468.9	465.8
37.5°	527.6	504.6	487.6	475.3	466.6	461.0	454.7	453.1	450.3	448.8	447.6
40°	503.0	482.0	466.2	453.9	444.4	440.0	435.3	432.1	430.5	428.6	427.8
42.5°	477.7	457.9	442.8	431.7	423.8	420.2	415.9	413.9	410.3	407.6	407.2
45°	451.9	432.5	418.6	409.5	402.4	398.1	395.3	390.5	388.9	385.8	385.4
47.5°	428.2	409.1	395.3	387.8	381.4	378.2	373.9	368.7	366.8	364.8	364.4
50°	400.8	383.8	371.1	364.0	358.0	352.9	348.5	345.4	344.2	344.2	345.0
52.5°	373.1	359.2	348.9	339.8	334.3	328.7	324.8	323.2	321.2	323.6	325.2
55°	346.2	331.5	323.6	315.3	309.7	303.4	301.4	300.6	299.4	302.6	304.2
57.5°	317.3	307.4	297.8	289.1	284.4	280.4	277.3	276.9	279.2	280.0	284.8
60°	289.9	278.0	269.7	263.4	257.4	255.1	254.3	253.5	255.1	259.4	266.2
62.5°	259.8	250.7	241.6	237.2	233.3	228.9	228.9	229.7	233.3	238.4	245.2
65°	230.5	222.2	216.3	210.7	207.1	204.8	205.6	207.1	210.7	217.4	225.0
67.5°	200.4	194.9	189.3	184.2	180.6	181.0	181.4	183.4	187.7	195.7	202.8
70°	171.5	165.2	160.8	158.8	156.1	154.5	156.8	160.8	164.4	171.5	177.4
72.5°	142.6	137.4	134.3	133.1	132.3	131.1	131.5	135.9	141.0	148.1	155.3
75°	114.1	112.1	109.7	108.1	106.9	107.7	108.5	112.5	116.4	124.0	131.9
77.5°	88.3	85.9	84.4	84.0	83.2	83.6	85.6	88.7	92.7	98.2	104.6
80°	63.0	62.2	61.4	61.0	61.0	61.4	64.6	66.5	70.1	75.3	80.0
82.5°	41.6	41.2	41.2	41.2	41.6	41.6	43.2	45.9	48.7	52.3	56.2
85°	24.2	23.4	24.6	25.0	24.2	25.3	26.1	27.7	28.9	30.9	32.9
87.5°	9.9	10.7	10.3	10.7	10.7	11.5	11.1	12.7	13.5	14.3	13.9
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: P242802

CATALOG NUMBER: S125DRP-S850D927-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	933.1	933.1	933.1	933.1
2.5°	878.1	880.9	878.5	881.7
5°	819.5	815.9	818.3	816.7
7.5°	765.2	762.0	757.3	755.7
10°	714.9	710.6	710.2	707.4
12.5°	678.1	674.1	668.6	667.8
15°	643.6	640.4	637.7	640.1
17.5°	614.3	611.5	610.7	608.4
20°	587.0	585.0	585.8	580.6
22.5°	565.2	560.8	560.0	560.0
25°	542.2	540.2	538.3	540.2
27.5°	522.0	520.0	519.3	519.6
30°	503.8	499.8	500.2	499.8
32.5°	484.0	481.6	480.8	480.0
35°	464.6	464.6	462.6	462.6
37.5°	446.8	446.4	445.2	446.0
40°	426.2	425.8	424.6	422.2
42.5°	406.4	404.8	404.4	404.0
45°	385.4	385.4	384.6	384.2
47.5°	364.8	365.6	367.2	366.8
50°	346.6	347.0	348.1	348.5
52.5°	326.4	329.1	330.7	330.3
55°	307.7	310.5	313.3	313.7
57.5°	289.1	292.7	295.5	296.3
60°	270.1	275.3	278.8	280.4
62.5°	251.9	257.8	261.4	261.4
65°	231.7	237.6	240.8	243.2
67.5°	210.7	216.7	219.8	221.8
70°	187.3	193.3	198.0	199.6
72.5°	164.4	169.5	173.1	175.1
75°	137.0	144.2	147.7	149.7
77.5°	110.9	118.0	120.0	121.2
80°	84.8	88.7	91.5	91.9
82.5°	60.2	63.4	63.8	65.0
85°	35.6	37.2	37.6	37.2
87.5°	14.7	14.3	14.3	15.1
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242802  
 CATALOG NUMBER: S125DRP-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	17.23	18.80	17.59	19.11	19.42	17.20	18.77	17.57	19.08	19.40
	3H	18.60	20.01	18.98	20.34	20.70	18.63	20.04	19.01	20.37	20.73
	4H	19.09	20.42	19.49	20.77	21.14	19.12	20.44	19.52	20.79	21.17
	6H	19.43	20.65	19.84	21.02	21.41	19.43	20.66	19.85	21.02	21.42
	8H	19.52	20.69	19.95	21.08	21.48	19.51	20.68	19.94	21.07	21.47
	12H	19.57	20.69	20.00	21.07	21.50	19.55	20.67	19.98	21.05	21.48
4H	2H	18.74	20.06	19.13	20.41	20.79	18.28	19.61	18.68	19.95	20.33
	3H	20.08	21.18	20.49	21.58	21.98	19.94	21.05	20.35	21.44	21.85
	4H	20.59	21.58	21.02	22.00	22.44	20.50	21.49	20.93	21.91	22.34
	6H	20.96	21.83	21.42	22.27	22.73	20.87	21.74	21.33	22.18	22.64
	8H	21.06	21.87	21.53	22.32	22.78	20.97	21.78	21.43	22.22	22.69
	12H	21.13	21.85	21.61	22.33	22.80	21.02	21.75	21.50	22.23	22.70
8H	4H	21.07	21.88	21.53	22.33	22.79	20.84	21.65	21.30	22.09	22.56
	6H	21.52	22.19	22.02	22.68	23.16	21.34	22.01	21.84	22.50	22.98
	8H	21.67	22.27	22.18	22.78	23.26	21.49	22.09	22.00	22.60	23.09
	12H	21.77	22.30	22.28	22.79	23.36	21.59	22.12	22.10	22.61	23.17
12H	4H	21.12	21.84	21.60	22.32	22.79	20.86	21.58	21.34	22.06	22.53
	6H	21.61	22.21	22.12	22.72	23.20	21.39	21.99	21.90	22.50	22.99
	8H	21.80	22.33	22.31	22.82	23.38	21.59	22.13	22.10	22.62	23.18