

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: P242827

Luminaire Tested: S125DRP-S850D935-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P242827  
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-S850D935-X4F0-XX-UDD-A-W  
Description: DEFINE 5 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER  
STANDARD LIGHT ENGINE  
Light Source: (92) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

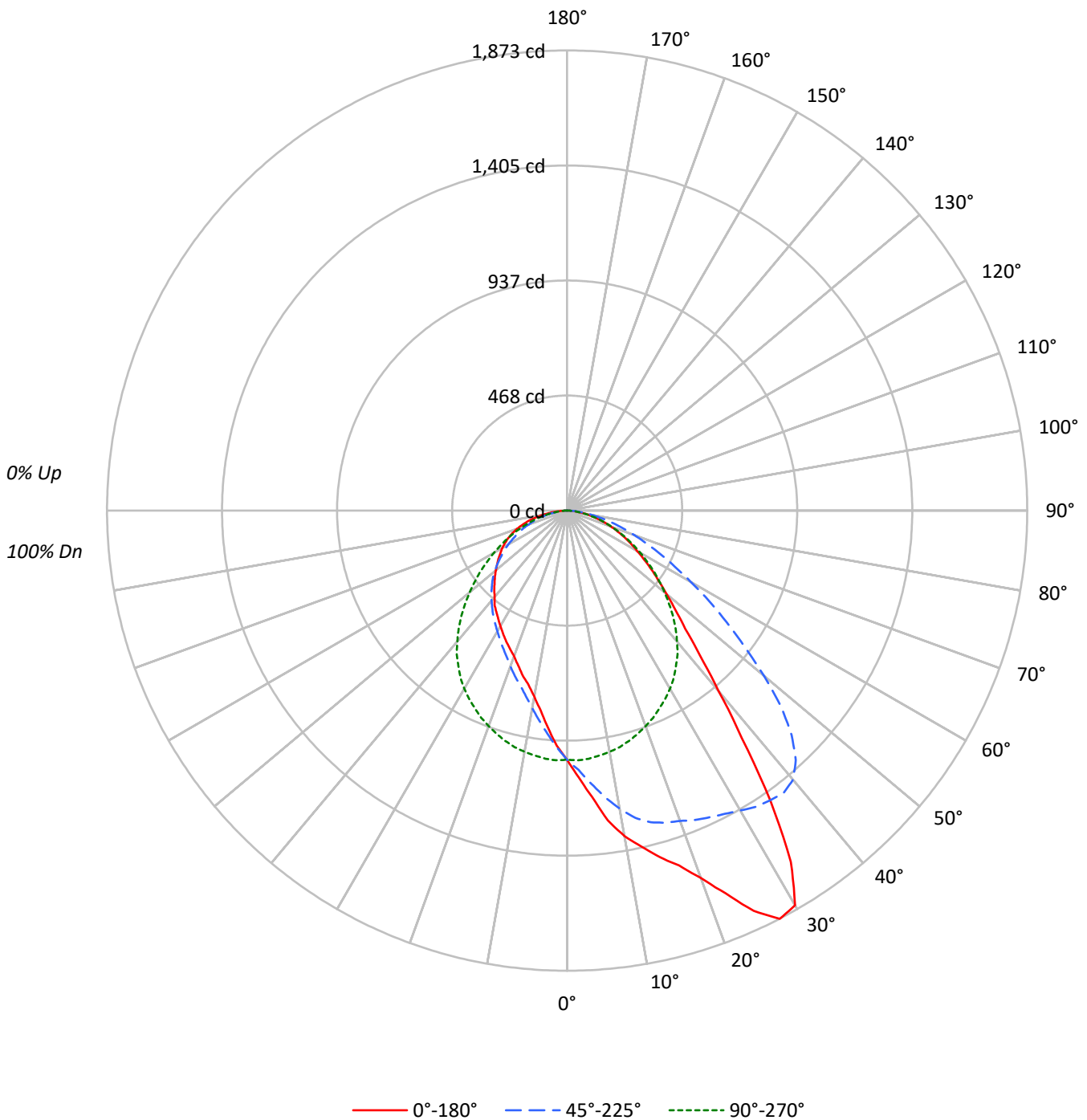
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2862.1 lumens  
Efficiency: N/A  
Efficacy: 108.4 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°	7208	7208	7208	7208	7208
5°	8347	7951	7233	6505	6333
10°	9712	8891	7195	5893	5548
15°	10750	9664	7142	5416	5119
20°	12034	10165	7059	5102	4773
25°	14098	10799	6965	4838	4605
30°	15227	11567	6872	4660	4459
35°	12520	12494	6697	4538	4363
40°	8899	13268	6455	4438	4258
45°	6837	12985	6127	4348	4197
50°	5836	11552	5721	4241	4188
55°	5196	9810	5323	4085	4224
60°	4687	8286	4890	3940	4333
65°	4329	7058	4452	3744	4445
70°	3936	6003	3998	3489	4509
75°	3477	5130	3523	3216	4468
80°	2926	4212	2873	2730	4089
85°	2316	3058	2071	2251	3303

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 12985 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.6	3.4
10°-20°	290.7	10.2
20°-30°	472.3	16.5
30°-40°	577.2	20.2
40°-50°	523.6	18.3
50°-60°	417.1	14.6
60°-70°	290.5	10.1
70°-80°	154.7	5.4
80°-90°	38.4	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°	860.7	30.1
0°-40°	1437.8	50.2
0°-60°	2378.5	83.1
0°-90°	2862.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2862.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1014	1014	1014	1014	1014	
5°	1170	1114	1014	912	888	118
15°	1461	1313	971	736	696	418
25°	1798	1377	888	617	587	824
35°	1443	1440	772	523	503	885
45°	680	1292	610	433	418	541
55°	419	792	430	330	341	377
65°	257	420	265	223	264	255
75°	127	187	128	117	163	136
85°	28	38	25	28	40	33
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°	1014.2	1014.2	1014.2	1014.2	1014.2	1014.2	1014.2	1014.2	1014.2	1014.2	1014.2
2.5°	1087.4	1085.7	1083.9	1080.5	1083.1	1075.8	1072.3	1066.3	1059.0	1056.4	1053.4
5°	1170.0	1172.2	1174.3	1165.3	1166.2	1160.1	1146.4	1135.2	1126.1	1114.5	1106.3
7.5°	1272.5	1266.0	1266.5	1260.9	1251.0	1242.8	1229.5	1210.9	1194.2	1175.2	1158.9
10°	1345.7	1346.1	1342.2	1335.3	1324.6	1316.8	1297.9	1279.8	1257.9	1232.0	1213.5
12.5°	1400.8	1402.9	1397.8	1387.9	1384.0	1364.2	1350.4	1328.0	1300.9	1281.5	1251.0
15°	1461.0	1456.3	1452.9	1441.2	1432.2	1414.1	1390.4	1368.1	1339.7	1313.4	1287.1
17.5°	1514.4	1518.3	1512.7	1504.1	1477.4	1456.3	1427.0	1398.6	1364.6	1331.9	1301.3
20°	1591.1	1594.5	1584.6	1566.1	1532.5	1511.4	1469.7	1430.1	1389.2	1344.0	1309.5
22.5°	1686.6	1682.3	1668.1	1637.5	1609.6	1566.1	1520.0	1469.7	1415.8	1363.3	1314.7
25°	1797.7	1779.6	1771.4	1736.6	1698.2	1641.0	1579.0	1508.4	1444.7	1377.1	1318.6
27.5°	1873.4	1866.1	1854.5	1826.1	1782.2	1717.2	1644.0	1559.6	1474.0	1391.3	1317.7
30°	1855.4	1856.2	1857.1	1849.3	1823.5	1777.5	1704.7	1612.1	1505.4	1409.4	1320.7
32.5°	1695.2	1714.6	1733.1	1757.2	1772.7	1773.1	1734.4	1653.0	1542.4	1430.1	1319.0
35°	1443.0	1447.7	1496.3	1544.6	1610.0	1660.8	1694.8	1657.8	1565.2	1440.0	1317.7
37.5°	1166.6	1190.3	1226.9	1281.1	1379.3	1459.3	1564.4	1600.5	1557.0	1448.1	1317.3
40°	959.1	980.6	1002.6	1058.1	1137.8	1240.2	1363.8	1469.2	1493.8	1430.1	1304.4
42.5°	799.0	814.9	839.9	878.2	941.5	1029.3	1145.9	1291.9	1391.7	1377.5	1277.2
45°	680.2	690.9	709.9	743.0	791.2	862.3	966.4	1117.1	1248.4	1291.9	1231.2
47.5°	595.8	596.2	611.7	635.4	672.0	737.4	815.3	939.3	1080.9	1181.2	1167.0
50°	527.8	525.6	537.2	557.0	584.6	624.6	698.2	792.5	927.3	1044.8	1077.5
52.5°	469.2	470.1	476.1	489.5	511.4	544.1	594.5	677.1	787.3	908.7	977.6
55°	419.3	417.6	425.7	435.6	452.4	474.8	514.4	579.4	672.8	791.7	871.7
57.5°	371.1	375.8	379.3	386.1	400.8	416.3	451.6	501.5	578.6	684.0	768.8
60°	329.7	334.5	337.1	344.0	355.1	368.1	393.9	432.6	495.1	582.9	666.8
62.5°	292.7	296.2	296.6	302.6	311.2	323.7	342.7	373.7	419.7	493.8	575.6
65°	257.4	257.4	259.1	265.6	269.9	281.1	296.6	320.3	359.9	419.7	489.9
67.5°	223.0	225.1	224.7	227.7	231.6	241.1	252.7	272.5	303.9	349.1	407.2
70°	189.4	191.1	190.7	192.9	197.2	202.8	211.8	230.3	251.4	288.9	337.1
72.5°	159.3	159.7	158.4	161.4	163.6	168.3	178.6	186.4	205.8	235.9	273.4
75°	126.6	127.4	128.3	130.0	132.6	135.2	140.3	150.2	163.2	186.8	212.2
77.5°	100.7	98.6	101.2	100.7	102.0	104.2	108.9	114.5	125.7	141.6	162.7
80°	71.5	71.9	71.9	72.3	74.5	75.8	79.6	83.5	91.7	102.9	116.7
82.5°	47.4	48.6	47.8	48.6	50.4	51.2	52.9	56.0	59.8	68.0	77.1
85°	28.4	26.3	27.1	28.0	28.0	28.4	30.1	31.4	34.0	37.5	41.3
87.5°	10.3	11.2	11.6	11.6	12.1	12.1	13.8	13.8	15.1	16.4	18.1
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°	1014.2	1014.2	1014.2	1014.2	1014.2	1014.2	1014.2	1014.2	1014.2	1014.2	1014.2
2.5°	1050.8	1047.8	1044.3	1038.3	1031.0	1027.1	1021.1	1017.2	1009.5	1003.0	996.1
5°	1096.4	1085.2	1074.9	1061.6	1046.9	1037.5	1026.3	1013.8	1000.9	987.5	972.9
7.5°	1142.1	1123.6	1103.3	1082.2	1061.6	1042.2	1024.1	1005.6	988.8	967.7	950.1
10°	1188.1	1163.2	1136.5	1105.0	1074.5	1047.8	1020.7	997.0	972.9	947.1	924.2
12.5°	1234.2	1198.9	1158.4	1123.1	1084.8	1051.2	1018.1	986.2	954.4	925.1	897.6
15°	1251.0	1221.7	1186.8	1137.8	1096.4	1052.1	1009.9	970.7	934.1	902.3	868.7
17.5°	1267.3	1229.9	1192.9	1145.5	1091.7	1043.9	996.1	953.5	913.0	873.0	842.4
20°	1271.2	1232.5	1193.3	1147.2	1091.7	1034.9	987.1	933.3	888.9	847.2	807.6
22.5°	1269.9	1224.7	1181.2	1133.5	1079.6	1028.4	968.1	913.0	864.0	823.1	781.3
25°	1260.4	1213.5	1160.1	1112.4	1059.0	1003.4	944.9	888.1	839.0	792.1	751.2
27.5°	1254.8	1195.4	1136.9	1081.8	1030.6	979.3	922.5	864.0	810.2	762.4	724.5
30°	1242.4	1175.6	1107.6	1049.5	996.6	947.1	894.1	837.3	780.5	734.0	692.6
32.5°	1231.2	1150.7	1077.9	1013.3	956.5	908.7	861.0	807.6	752.0	704.7	663.4
35°	1216.1	1126.1	1043.9	972.5	912.6	863.1	822.2	771.9	720.6	675.0	635.4
37.5°	1198.5	1094.3	1007.3	932.8	867.8	816.2	777.4	738.3	687.0	642.3	607.0
40°	1176.9	1059.8	966.4	889.8	821.8	767.5	732.2	695.7	654.8	613.9	576.0
42.5°	1149.8	1028.8	925.1	841.2	774.0	721.5	684.0	654.3	619.5	582.0	547.6
45°	1115.4	990.1	879.9	791.2	723.2	671.1	632.8	609.6	582.4	546.3	516.6
47.5°	1069.7	946.2	832.5	740.9	670.7	622.5	585.9	563.1	543.3	514.9	486.9
50°	1004.7	895.8	780.5	689.6	619.5	570.8	537.7	517.4	501.1	480.4	457.6
52.5°	932.0	832.5	729.2	639.7	570.4	522.6	490.3	473.1	460.2	446.8	424.5
55°	854.1	768.0	669.8	584.6	520.5	473.5	445.1	429.6	418.4	407.2	393.5
57.5°	770.1	700.4	610.4	530.8	471.4	427.5	400.8	384.8	375.8	369.8	361.2
60°	680.6	622.9	548.0	477.0	419.3	381.4	355.6	344.0	336.6	331.9	325.9
62.5°	597.5	552.7	484.7	421.4	372.8	337.5	315.1	303.9	297.0	295.3	290.6
65°	516.1	479.6	422.3	368.5	325.4	294.9	275.5	264.7	260.4	257.9	258.3
67.5°	434.4	410.7	362.9	315.5	280.2	253.1	237.2	229.0	226.9	223.0	223.0
70°	360.7	344.0	305.2	265.2	234.6	214.8	201.0	192.4	190.3	188.6	188.1
72.5°	295.7	281.5	249.2	219.1	192.4	175.6	164.9	160.6	156.7	155.8	155.8
75°	232.0	223.8	197.2	171.8	152.8	140.8	133.0	128.3	125.7	125.3	125.7
77.5°	175.2	167.5	148.9	130.0	117.5	108.1	100.7	99.4	96.0	96.4	95.6
80°	124.0	119.2	108.5	94.3	84.4	76.6	73.2	70.2	69.3	68.0	69.3
82.5°	81.4	76.2	69.7	62.0	54.2	50.4	46.9	46.5	46.1	45.6	45.6
85°	44.3	44.8	40.5	33.6	30.1	27.6	25.4	25.4	25.0	24.5	25.0
87.5°	18.9	18.1	16.4	15.1	12.9	11.6	11.2	11.6	10.3	9.9	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°	1014.2	1014.2	1014.2	1014.2	1014.2	1014.2	1014.2	1014.2	1014.2	1014.2	1014.2
2.5°	992.3	987.5	983.6	975.0	970.3	963.8	958.7	964.3	958.2	960.8	957.0
5°	965.6	953.5	944.9	932.4	921.7	911.8	904.4	903.1	899.7	898.0	892.8
7.5°	933.7	919.9	905.7	890.2	877.3	863.5	855.4	847.6	842.9	836.9	832.1
10°	906.2	885.9	868.7	848.9	831.7	816.6	804.6	798.5	792.9	784.8	781.8
12.5°	872.2	851.1	829.1	807.6	791.2	774.0	764.1	754.2	750.8	741.3	740.9
15°	846.3	814.9	794.2	772.7	749.9	736.1	727.5	717.6	713.3	706.8	702.1
17.5°	814.5	786.1	760.2	738.3	717.6	706.4	695.2	688.3	681.0	676.3	668.5
20°	779.2	752.5	726.6	703.0	687.9	674.6	666.0	659.5	651.7	649.6	641.8
22.5°	749.5	719.3	694.8	675.9	659.1	643.6	634.1	630.2	625.5	617.7	617.7
25°	716.7	686.2	665.1	645.3	630.7	616.9	610.4	604.8	599.7	594.9	593.2
27.5°	689.2	662.1	636.2	618.2	605.7	592.8	587.2	579.9	576.0	572.1	566.9
30°	659.9	631.9	610.0	592.8	579.0	567.8	561.8	557.0	553.6	550.2	547.6
32.5°	629.8	604.4	583.3	566.5	552.7	545.0	539.8	536.8	532.9	528.6	525.2
35°	604.0	575.6	554.9	540.3	529.5	523.0	517.0	514.0	509.7	509.7	506.2
37.5°	573.4	548.4	529.9	516.6	507.1	501.1	494.2	492.5	489.5	487.7	486.4
40°	546.7	523.9	506.7	493.3	483.0	478.3	473.1	469.7	467.9	465.8	464.9
42.5°	519.2	497.6	481.3	469.2	460.6	456.7	452.0	449.9	446.0	443.0	442.5
45°	491.2	470.1	455.0	445.1	437.4	432.6	429.6	424.5	422.7	419.3	418.9
47.5°	465.3	444.7	429.6	421.4	414.6	411.1	406.4	400.8	398.6	396.5	396.0
50°	435.6	417.1	403.4	395.6	389.2	383.6	378.8	375.4	374.1	374.1	374.9
52.5°	405.5	390.4	379.3	369.4	363.3	357.3	353.0	351.3	349.1	351.7	353.4
55°	376.2	360.3	351.7	342.7	336.6	329.7	327.6	326.7	325.4	328.9	330.6
57.5°	344.8	334.1	323.7	314.3	309.1	304.8	301.3	300.9	303.5	304.3	309.5
60°	315.1	302.2	293.2	286.3	279.8	277.2	276.4	275.5	277.2	282.0	289.3
62.5°	282.4	272.5	262.6	257.9	253.6	248.8	248.8	249.7	253.6	259.1	266.5
65°	250.5	241.5	235.0	229.0	225.1	222.6	223.4	225.1	229.0	236.3	244.5
67.5°	217.8	211.8	205.8	200.2	196.3	196.7	197.2	199.3	204.0	212.7	220.4
70°	186.4	179.5	174.8	172.6	169.6	167.9	170.5	174.8	178.6	186.4	192.9
72.5°	155.0	149.4	145.9	144.6	143.8	142.5	142.9	147.7	153.3	161.0	168.7
75°	124.0	121.8	119.2	117.5	116.2	117.1	118.0	122.3	126.6	134.7	143.3
77.5°	96.0	93.4	91.7	91.3	90.4	90.8	93.0	96.4	100.7	106.8	113.6
80°	68.4	67.6	66.7	66.3	66.3	66.7	70.2	72.3	76.2	81.8	87.0
82.5°	45.2	44.8	44.8	44.8	45.2	45.2	46.9	49.9	52.9	56.8	61.1
85°	26.3	25.4	26.7	27.1	26.3	27.6	28.4	30.1	31.4	33.6	35.7
87.5°	10.8	11.6	11.2	11.6	11.6	12.5	12.1	13.8	14.6	15.5	15.1
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):**

	165°	170°	175°	180°
0°	1014.2	1014.2	1014.2	1014.2
2.5°	954.4	957.4	954.8	958.2
5°	890.7	886.8	889.4	887.6
7.5°	831.7	828.2	823.1	821.4
10°	777.0	772.3	771.9	768.8
12.5°	737.0	732.7	726.6	725.8
15°	699.5	696.1	693.1	695.7
17.5°	667.7	664.7	663.8	661.2
20°	638.0	635.8	636.7	631.1
22.5°	614.3	609.6	608.7	608.7
25°	589.3	587.2	585.0	587.2
27.5°	567.4	565.2	564.4	564.8
30°	547.6	543.3	543.7	543.3
32.5°	526.0	523.5	522.6	521.7
35°	505.0	505.0	502.8	502.8
37.5°	485.6	485.2	483.9	484.7
40°	463.2	462.8	461.5	458.9
42.5°	441.7	440.0	439.5	439.1
45°	418.9	418.9	418.0	417.6
47.5°	396.5	397.3	399.1	398.6
50°	376.7	377.1	378.4	378.8
52.5°	354.7	357.7	359.5	359.0
55°	334.5	337.5	340.5	340.9
57.5°	314.3	318.1	321.1	322.0
60°	293.6	299.2	303.1	304.8
62.5°	273.8	280.2	284.1	284.1
65°	251.8	258.3	261.7	264.3
67.5°	229.0	235.5	238.9	241.1
70°	203.6	210.1	215.2	217.0
72.5°	178.6	184.2	188.1	190.3
75°	148.9	156.7	160.6	162.7
77.5°	120.5	128.3	130.4	131.7
80°	92.1	96.4	99.4	99.9
82.5°	65.4	68.9	69.3	70.6
85°	38.7	40.5	40.9	40.5
87.5°	15.9	15.5	15.5	16.4
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242827

CATALOG NUMBER: S125DRP-S850D935-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	17.52	19.09	17.88	19.40	19.71	17.49	19.06	17.86	19.37	19.69
	3H	18.89	20.30	19.27	20.63	20.99	18.92	20.33	19.30	20.66	21.02
	4H	19.38	20.71	19.78	21.06	21.43	19.41	20.73	19.81	21.08	21.46
	6H	19.72	20.95	20.13	21.31	21.70	19.72	20.95	20.13	21.31	21.71
	8H	19.81	20.98	20.24	21.37	21.77	19.80	20.97	20.23	21.36	21.76
	12H	19.86	20.98	20.29	21.36	21.79	19.84	20.96	20.27	21.34	21.77
4H	2H	19.03	20.35	19.42	20.70	21.08	18.57	19.90	18.97	20.24	20.62
	3H	20.37	21.47	20.78	21.87	22.27	20.23	21.34	20.64	21.73	22.13
	4H	20.88	21.87	21.31	22.29	22.72	20.79	21.78	21.22	22.20	22.63
	6H	21.25	22.12	21.71	22.56	23.02	21.16	22.03	21.62	22.47	22.93
	8H	21.35	22.16	21.82	22.61	23.07	21.26	22.07	21.72	22.51	22.98
	12H	21.42	22.14	21.90	22.62	23.09	21.31	22.04	21.79	22.52	22.99
8H	4H	21.36	22.17	21.82	22.62	23.08	21.13	21.94	21.59	22.38	22.85
	6H	21.81	22.48	22.31	22.97	23.45	21.63	22.30	22.13	22.79	23.27
	8H	21.96	22.56	22.47	23.07	23.55	21.78	22.38	22.29	22.89	23.38
	12H	22.06	22.59	22.57	23.08	23.65	21.88	22.41	22.38	22.90	23.46
12H	4H	21.41	22.13	21.89	22.61	23.08	21.15	21.87	21.63	22.35	22.82
	6H	21.89	22.50	22.41	23.01	23.49	21.68	22.28	22.19	22.79	23.28
	8H	22.09	22.62	22.60	23.11	23.67	21.88	22.42	22.39	22.91	23.47