

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: P243765

Luminaire Tested: S125RDRP-H850D927-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P243765  
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-H850D927-X4F0-XX-UDD-A-W  
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: (184) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

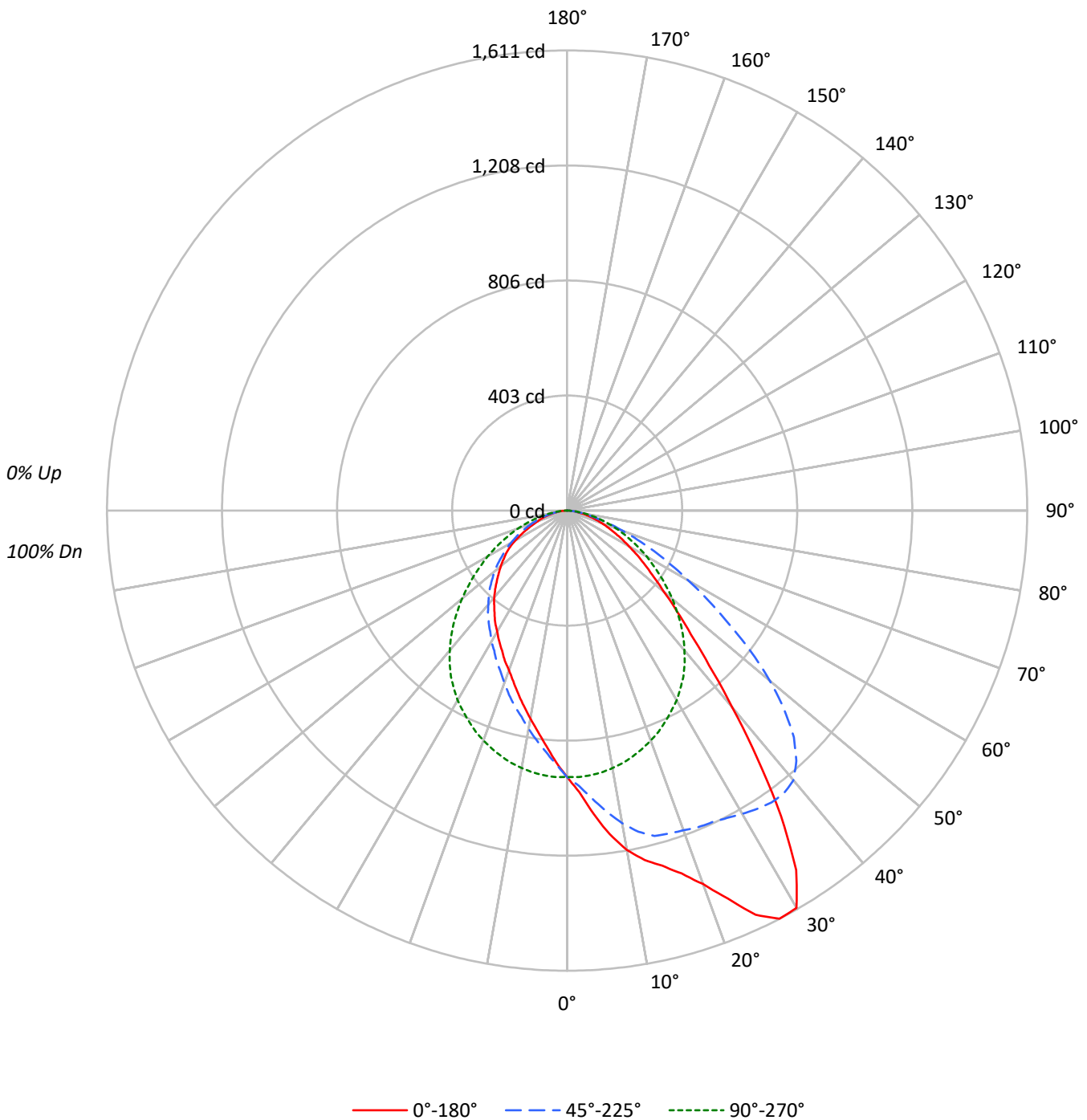
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2482.1 lumens  
Efficiency: N/A  
Efficacy: 105.2 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°	6629	6629	6629	6629	6629
5°	7609	7229	6638	6052	5905
10°	8706	8020	6606	5602	5338
15°	9469	8677	6552	5216	4881
20°	10522	9010	6478	4856	4498
25°	12244	9437	6386	4577	4234
30°	13183	10061	6291	4340	4018
35°	11326	10823	6151	4152	3844
40°	8345	11436	5929	3983	3685
45°	6162	11282	5654	3836	3494
50°	4883	10239	5316	3676	3353
55°	4124	8546	4926	3451	3225
60°	3554	6981	4563	3238	2987
65°	3084	5634	4154	2973	2600
70°	2706	4281	3805	2689	2275
75°	2296	3117	3331	2375	2153
80°	1785	2255	2783	2087	1785
85°	1566	1655	2234	1778	1631

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 11282 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.8	3.6
10°-20°	265.6	10.7
20°-30°	423.6	17.1
30°-40°	514.4	20.7
40°-50°	463.5	18.7
50°-60°	356.4	14.4
60°-70°	231.3	9.3
70°-80°	111.3	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°	779.0	31.4
0°-40°	1293.3	52.1
0°-60°	2113.2	85.1
0°-90°	2482.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2482.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	933	933	933	933	933	
5°	1066	1013	930	848	828	106
15°	1287	1179	890	709	663	369
25°	1561	1203	814	584	540	714
35°	1305	1247	709	478	443	799
45°	613	1122	562	382	348	487
55°	333	690	398	278	260	302
65°	183	335	247	177	155	184
75°	84	114	121	86	78	90
85°	19	20	27	22	20	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°	932.7	932.7	932.7	932.7	932.7	932.7	932.7	932.7	932.7	932.7	932.7
2.5°	986.6	990.3	987.4	989.2	986.3	984.8	981.1	975.6	970.0	964.8	964.5
5°	1066.5	1065.8	1062.8	1058.8	1055.8	1048.4	1044.7	1032.1	1023.6	1013.3	1008.1
7.5°	1142.7	1140.9	1136.4	1130.9	1128.3	1118.7	1108.3	1092.4	1079.1	1062.8	1050.6
10°	1206.3	1205.9	1202.6	1198.9	1188.9	1178.2	1168.2	1151.6	1131.6	1111.3	1094.3
12.5°	1252.9	1251.1	1247.0	1240.7	1232.6	1225.2	1211.9	1196.7	1172.3	1151.6	1128.3
15°	1286.9	1286.2	1280.3	1278.1	1262.2	1251.8	1234.1	1218.9	1200.0	1179.3	1154.2
17.5°	1332.1	1333.5	1328.4	1315.8	1301.4	1285.5	1260.3	1235.5	1209.3	1185.2	1164.9
20°	1391.2	1387.5	1378.6	1363.5	1337.6	1318.0	1292.9	1262.2	1226.7	1191.2	1161.9
22.5°	1470.4	1466.3	1452.2	1433.7	1401.2	1365.3	1326.9	1281.0	1240.3	1199.7	1161.2
25°	1561.3	1553.6	1532.9	1512.9	1466.7	1428.6	1371.3	1316.5	1257.3	1203.4	1160.1
27.5°	1610.9	1610.9	1601.3	1579.5	1542.8	1486.6	1428.2	1355.3	1286.9	1213.0	1151.6
30°	1606.4	1603.9	1607.6	1598.3	1574.6	1532.5	1474.4	1397.9	1310.6	1225.9	1152.3
32.5°	1491.8	1492.9	1515.1	1530.3	1542.1	1531.7	1494.0	1424.9	1338.0	1238.5	1149.4
35°	1305.4	1308.4	1347.6	1373.5	1426.4	1456.7	1465.6	1428.2	1350.2	1247.4	1144.2
37.5°	1092.4	1092.4	1137.9	1177.1	1236.3	1311.0	1366.8	1380.9	1342.8	1247.0	1139.8
40°	899.4	898.3	934.1	982.2	1045.4	1127.9	1211.1	1282.5	1291.7	1232.6	1124.2
42.5°	735.9	734.1	773.3	799.9	866.5	940.1	1050.6	1151.6	1209.3	1187.8	1101.3
45°	613.1	611.7	637.2	667.5	714.5	791.0	883.8	995.9	1092.8	1122.4	1058.4
47.5°	520.7	521.4	535.1	560.6	600.6	655.3	738.5	842.4	962.2	1030.7	1004.4
50°	441.6	444.1	454.5	473.7	502.9	546.9	618.3	712.3	835.4	926.0	931.5
52.5°	382.4	386.1	397.2	407.5	431.9	463.0	518.5	599.8	701.5	810.3	849.1
55°	332.8	334.7	341.0	352.1	370.2	396.1	436.4	498.5	592.8	689.7	758.1
57.5°	291.4	291.4	295.5	303.2	317.7	341.0	368.0	419.4	498.9	586.5	659.4
60°	250.0	251.5	254.4	262.9	272.5	290.3	316.6	349.1	417.9	491.1	569.5
62.5°	215.2	217.8	220.8	224.8	233.7	246.3	264.8	294.7	341.0	408.6	478.5
65°	183.4	186.0	186.4	191.2	197.1	207.5	221.5	243.3	281.8	335.0	392.7
67.5°	155.3	156.4	157.5	161.2	166.8	173.4	182.7	199.0	229.3	265.2	321.4
70°	130.2	130.9	131.3	135.3	137.9	143.9	148.7	159.0	178.2	206.0	249.6
72.5°	106.5	105.4	105.0	108.4	109.5	114.3	120.2	127.6	137.9	157.5	190.1
75°	83.6	83.9	84.3	86.2	86.5	88.8	92.5	97.3	102.1	113.5	134.2
77.5°	64.3	62.9	62.9	65.1	65.8	66.2	68.8	71.4	74.0	80.6	88.8
80°	43.6	44.4	44.4	44.4	44.7	45.5	47.0	49.2	51.0	55.1	56.6
82.5°	31.1	31.1	30.7	31.4	31.8	32.2	32.2	32.2	33.3	34.4	35.9
85°	19.2	19.6	18.5	19.2	19.6	19.6	19.6	19.6	20.7	20.3	20.7
87.5°	8.1	8.5	8.5	8.9	8.9	9.2	8.9	9.2	8.9	8.9	9.2
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	932.7	932.7	932.7	932.7	932.7	932.7	932.7	932.7	932.7	932.7	932.7
2.5°	963.4	958.9	956.7	952.3	946.3	942.6	938.9	933.8	929.7	923.4	917.9
5°	998.9	990.0	981.8	970.7	960.0	950.8	941.2	930.4	920.8	910.1	898.6
7.5°	1038.4	1024.4	1007.4	987.8	971.1	956.7	940.4	924.5	910.1	893.1	877.6
10°	1076.5	1054.0	1031.4	1005.1	980.7	959.3	937.5	915.3	896.4	875.3	856.1
12.5°	1106.1	1084.6	1051.0	1018.5	986.6	958.9	931.5	904.6	879.8	856.5	833.5
15°	1132.0	1096.5	1068.0	1032.5	993.7	956.0	921.9	890.5	860.5	833.2	809.9
17.5°	1139.4	1107.6	1076.5	1035.1	993.3	950.4	911.2	873.9	840.6	810.3	784.0
20°	1138.6	1106.5	1072.8	1033.2	988.9	941.9	898.3	856.5	818.8	784.0	755.9
22.5°	1127.5	1096.5	1062.5	1022.5	977.4	929.0	883.1	836.9	795.8	759.6	730.7
25°	1115.7	1076.5	1041.0	1000.7	957.8	913.1	864.2	814.3	771.4	733.7	701.2
27.5°	1105.4	1058.4	1014.8	975.2	931.2	890.9	842.4	790.3	746.3	706.7	673.1
30°	1088.7	1039.2	986.3	943.0	900.5	858.3	813.9	766.6	718.5	678.2	644.6
32.5°	1074.3	1011.8	954.5	905.7	863.1	826.2	783.6	738.1	691.2	652.7	616.5
35°	1058.4	983.7	923.8	866.5	823.9	783.6	750.0	708.9	662.3	621.6	589.1
37.5°	1039.5	954.8	886.1	827.6	783.6	742.2	711.9	675.3	633.1	592.8	560.6
40°	1018.5	925.3	846.1	785.8	738.5	697.1	671.6	639.0	603.2	563.2	533.3
42.5°	991.8	893.8	809.9	744.1	691.5	654.2	628.7	601.7	568.8	534.0	501.5
45°	958.2	854.6	766.6	697.1	645.3	609.1	582.4	562.5	536.2	503.7	473.0
47.5°	917.1	813.6	722.2	650.1	600.2	565.4	540.7	520.7	500.7	472.6	443.4
50°	862.8	766.6	679.0	605.4	552.5	518.8	496.7	480.8	462.6	439.7	413.1
52.5°	802.9	713.7	627.9	559.2	508.1	474.5	451.5	438.2	424.5	405.7	382.8
55°	733.3	660.8	579.1	511.8	461.9	428.6	410.5	397.5	386.1	371.7	352.4
57.5°	659.7	596.1	525.1	463.0	416.0	384.6	368.7	358.0	348.4	338.0	322.1
60°	582.4	537.3	470.0	413.1	372.0	346.1	331.0	321.0	312.1	303.6	291.8
62.5°	501.8	464.5	414.2	365.7	329.1	304.7	293.6	285.1	275.9	268.5	260.0
65°	420.1	398.7	363.9	318.4	284.8	264.8	254.1	247.0	242.6	234.1	227.4
67.5°	345.8	333.9	304.4	273.7	247.8	229.7	219.7	214.5	209.7	205.6	198.2
70°	275.1	266.6	249.6	227.8	207.5	191.9	184.5	183.1	176.4	172.3	168.6
72.5°	209.7	207.5	193.4	183.8	172.3	160.1	154.6	151.6	147.2	143.5	142.0
75°	149.0	152.4	147.9	143.1	137.6	127.6	122.8	121.3	117.2	116.1	114.3
77.5°	101.7	106.5	108.0	105.8	103.2	99.8	96.5	95.0	91.0	90.2	89.1
80°	64.0	71.0	73.6	73.2	72.1	72.5	68.4	68.0	66.2	65.1	66.2
82.5°	38.8	42.5	47.3	48.4	47.0	47.7	46.6	45.1	45.1	45.9	44.4
85°	21.1	21.4	23.7	25.1	27.0	28.5	27.0	27.4	27.0	27.0	25.9
87.5°	9.2	9.6	9.6	9.2	10.0	10.7	12.2	12.9	12.6	11.5	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



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	932.7	932.7	932.7	932.7	932.7	932.7	932.7	932.7	932.7	932.7	932.7
2.5°	913.4	910.8	906.4	902.7	894.2	888.3	887.5	887.9	887.2	886.4	886.1
5°	891.2	882.7	874.6	867.6	858.0	848.3	843.9	842.1	841.3	837.2	839.5
7.5°	867.6	854.6	845.0	831.7	820.2	812.1	804.3	800.6	799.9	794.3	792.9
10°	842.4	826.9	812.5	799.2	787.7	776.2	767.0	763.7	759.2	754.8	748.1
12.5°	817.6	798.4	782.5	767.7	752.2	739.2	731.9	727.0	721.5	717.4	715.2
15°	788.1	771.8	752.2	736.3	720.4	708.9	698.9	690.1	684.9	681.6	672.3
17.5°	761.4	740.0	721.5	706.3	689.0	676.0	665.7	658.3	649.4	642.7	636.8
20°	733.0	710.8	693.8	675.6	657.9	642.0	629.0	623.1	616.8	610.6	607.2
22.5°	702.3	683.0	663.8	644.9	626.1	609.1	600.9	592.4	586.9	580.6	576.2
25°	675.6	654.6	635.3	614.3	593.5	583.6	572.5	564.0	559.5	553.2	548.4
27.5°	647.2	626.8	603.9	582.1	569.9	552.9	545.5	538.8	532.9	526.6	523.3
30°	620.5	596.9	573.9	556.9	541.0	528.8	521.8	513.7	505.5	502.6	498.1
32.5°	592.4	566.9	546.9	529.9	516.6	501.8	495.2	488.5	480.8	477.1	473.0
35°	563.2	538.4	518.8	503.3	489.6	478.5	471.1	464.1	459.3	453.8	450.8
37.5°	532.5	511.1	492.2	476.7	464.1	455.2	446.0	440.4	433.8	428.6	426.4
40°	503.3	484.1	466.0	451.5	440.1	429.3	421.2	414.2	410.1	405.7	402.0
42.5°	477.1	457.1	441.6	426.4	416.0	405.7	397.5	392.4	385.3	383.5	378.3
45°	448.9	430.5	414.9	400.9	390.1	381.6	372.0	365.7	361.3	356.9	355.0
47.5°	420.5	403.5	389.0	376.1	365.0	355.4	348.0	341.3	336.5	332.5	330.2
50°	392.7	377.9	363.5	350.9	339.5	332.5	323.6	316.2	312.5	308.1	305.5
52.5°	363.5	351.3	335.8	325.1	314.3	305.1	296.2	291.4	287.7	284.0	282.2
55°	336.2	323.2	309.9	298.4	288.1	278.5	271.4	267.7	262.9	260.7	260.3
57.5°	308.1	294.7	283.6	273.3	261.5	254.1	247.8	243.3	239.3	237.4	237.4
60°	277.4	266.6	256.3	244.8	236.3	227.8	221.1	218.2	214.1	213.4	210.8
62.5°	249.3	239.3	229.3	218.6	210.8	202.3	197.5	193.4	191.2	188.2	185.3
65°	220.0	211.2	201.5	192.3	186.0	176.8	172.3	167.5	164.9	161.6	157.9
67.5°	191.9	183.4	174.5	166.0	160.9	152.0	149.0	143.1	141.3	137.6	134.2
70°	162.3	156.4	149.4	140.9	136.5	129.4	126.5	120.9	118.0	115.8	113.9
72.5°	136.8	131.3	123.1	117.6	112.1	107.6	102.8	100.2	97.6	95.8	95.4
75°	111.7	104.7	99.8	94.7	91.0	86.5	84.3	82.5	81.4	80.2	79.1
77.5°	85.4	82.5	77.7	72.5	69.5	67.7	66.2	65.5	64.3	64.0	62.9
80°	63.6	59.5	56.6	54.7	52.5	51.0	49.9	47.3	45.9	45.1	44.4
82.5°	42.2	41.0	38.8	37.0	35.1	34.8	33.7	32.9	32.5	32.5	32.2
85°	25.5	22.6	22.6	22.2	22.2	21.8	21.1	21.1	20.3	21.4	21.4
87.5°	10.4	10.4	9.6	9.6	10.0	9.2	8.9	8.9	8.9	8.5	8.9
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: P243765

CATALOG NUMBER: S125RDRP-H850D927-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	932.7	932.7	932.7	932.7
2.5°	886.1	884.2	884.6	882.4
5°	835.4	834.3	830.6	827.6
7.5°	789.2	784.4	784.0	781.0
10°	745.9	741.5	739.2	739.6
12.5°	708.2	703.4	703.4	700.4
15°	667.9	663.1	663.8	663.4
17.5°	634.6	631.3	628.7	626.5
20°	602.0	598.0	596.5	594.7
22.5°	572.1	569.1	569.5	569.5
25°	543.6	544.0	540.7	539.9
27.5°	518.5	517.7	517.0	515.5
30°	494.8	491.8	491.1	489.6
32.5°	470.4	470.0	467.1	468.2
35°	445.6	444.5	443.8	443.0
37.5°	422.7	420.5	420.1	419.4
40°	399.4	398.7	395.3	397.2
42.5°	374.2	372.8	372.8	372.8
45°	353.2	349.1	349.1	347.6
47.5°	329.5	328.0	327.3	324.7
50°	306.2	304.0	303.2	303.2
52.5°	282.2	281.8	282.5	281.1
55°	261.1	261.5	261.1	260.3
57.5°	238.2	236.3	236.3	236.7
60°	210.8	210.8	211.5	210.1
62.5°	184.5	183.8	181.2	180.5
65°	157.5	154.6	154.2	154.6
67.5°	133.5	132.4	130.5	130.9
70°	112.8	112.4	110.6	109.5
72.5°	94.3	94.3	93.2	93.2
75°	78.8	78.0	77.7	78.4
77.5°	60.6	58.8	59.5	58.4
80°	44.0	44.7	44.0	43.6
82.5°	32.5	31.8	32.2	31.8
85°	20.7	20.0	20.3	20.0
87.5°	8.5	8.9	8.9	8.1
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243765  
 CATALOG NUMBER: S125RDRP-H850D927-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	16.49	18.03	16.86	18.35	18.66	17.19	18.73	17.56	19.04	19.36
	3H	17.58	18.96	17.95	19.29	19.65	18.67	20.05	19.04	20.38	20.74
	4H	17.93	19.23	18.33	19.58	19.96	19.19	20.49	19.59	20.84	21.21
	6H	18.15	19.35	18.56	19.71	20.11	19.55	20.74	19.96	21.11	21.50
	8H	18.21	19.35	18.63	19.74	20.14	19.65	20.79	20.07	21.18	21.58
	12H	18.24	19.33	18.67	19.72	20.15	19.71	20.80	20.14	21.18	21.61
4H	2H	18.01	19.31	18.41	19.66	20.04	18.06	19.36	18.46	19.71	20.08
	3H	19.06	20.13	19.47	20.53	20.93	19.72	20.80	20.13	21.20	21.60
	4H	19.42	20.39	19.85	20.80	21.24	20.32	21.29	20.75	21.70	22.14
	6H	19.67	20.50	20.12	20.95	21.41	20.76	21.60	21.21	22.04	22.50
	8H	19.73	20.51	20.19	20.96	21.42	20.88	21.66	21.34	22.11	22.58
	12H	19.77	20.48	20.26	20.95	21.42	20.96	21.67	21.45	22.14	22.61
8H	4H	19.78	20.57	20.24	21.01	21.48	20.48	21.26	20.94	21.70	22.17
	6H	20.07	20.72	20.57	21.21	21.69	21.00	21.65	21.49	22.14	22.61
	8H	20.17	20.75	20.68	21.26	21.75	21.17	21.76	21.69	22.27	22.75
	12H	20.25	20.77	20.76	21.26	21.83	21.31	21.83	21.82	22.32	22.88
12H	4H	19.81	20.51	20.29	20.98	21.46	20.47	21.17	20.95	21.64	22.12
	6H	20.11	20.69	20.62	21.20	21.69	20.99	21.57	21.50	22.08	22.57
	8H	20.24	20.76	20.75	21.25	21.81	21.21	21.72	21.72	22.21	22.78