

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: P242919

Luminaire Tested: S125RDRP-S610D840-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242919
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-S610D840-X4F0-XX-UDD-A-W
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

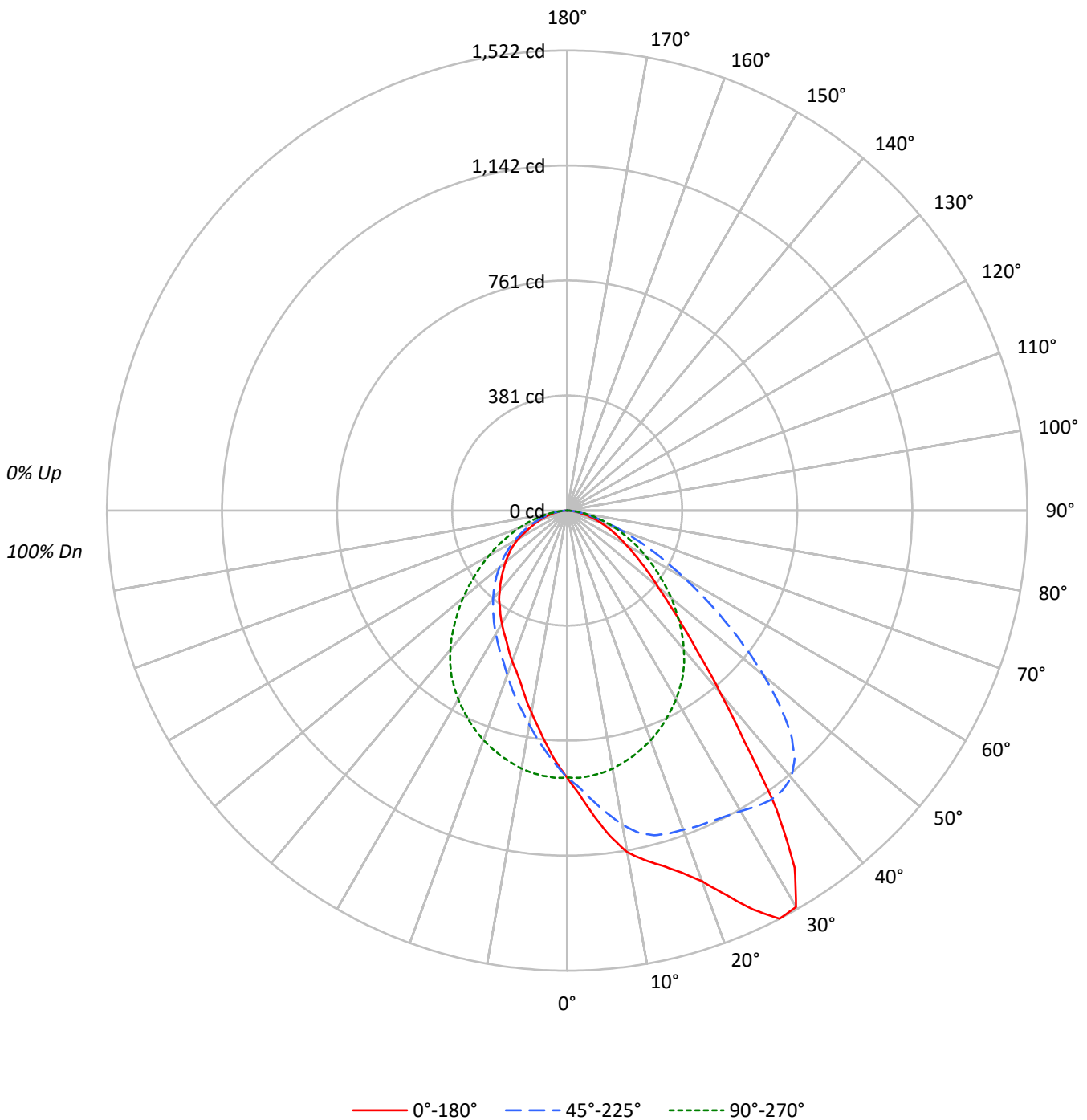
Lumens per Lamp: N/A
Luminaire Lumens: 2288.1 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.21 / 1.48
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 18.8
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					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	69	78	72	67	76	70	66	73	69	65	63					63			
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55					55			
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50	48					48			
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37					37			
8	63	50	42	36	61	49	42	36	48	41	36	47	40	36	46	40	35	34					34			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	42	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6276	6276	6276	6276	6276
5°	7222	6865	6285	5711	5551
10°	8284	7614	6254	5191	4898
15°	8947	8181	6189	4767	4354
20°	9866	8495	6114	4376	4020
25°	11417	8884	6016	4091	3730
30°	12424	9420	5912	3865	3540
35°	10481	10154	5791	3687	3366
40°	7319	10703	5573	3532	3216
45°	5430	10531	5280	3385	3069
50°	4329	9384	4975	3226	2942
55°	3675	7880	4596	3063	2830
60°	3174	6385	4257	2876	2648
65°	2829	5097	3890	2664	2280
70°	2485	3911	3564	2419	2080
75°	2150	2916	3087	2150	1952
80°	1633	2092	2595	1916	1633
85°	1362	1476	2039	1623	1541

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 10531 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.7	3.7
10°-20°	248.3	10.9
20°-30°	393.7	17.2
30°-40°	475.7	20.8
40°-50°	423.6	18.5
50°-60°	324.8	14.2
60°-70°	210.9	9.2
70°-80°	102.4	4.5
80°-90°	24.1	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°	726.6	31.8
0°-40°	1202.4	52.5
0°-60°	1950.8	85.3
0°-90°	2288.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2288.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	883	883	883	883	883	
5°	1012	962	881	800	778	101
15°	1216	1112	841	648	592	348
25°	1456	1133	767	522	476	670
35°	1208	1170	667	425	388	732
45°	540	1048	525	337	305	428
55°	297	636	371	247	228	269
65°	168	303	231	158	136	167
75°	78	106	112	78	71	83
85°	17	18	25	20	19	20
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°	883.1	883.1	883.1	883.1	883.1	883.1	883.1	883.1	883.1	883.1	883.1
2.5°	940.4	939.7	941.1	937.1	937.5	931.3	931.3	926.6	920.5	915.8	913.6
5°	1012.2	1012.9	1011.5	1006.0	1002.4	997.0	990.8	979.9	970.9	962.2	955.3
7.5°	1085.4	1086.1	1081.4	1080.3	1070.9	1065.1	1051.3	1037.2	1024.9	1008.6	997.0
10°	1147.8	1147.4	1142.3	1138.4	1130.4	1120.2	1106.8	1089.4	1073.1	1055.0	1037.6
12.5°	1184.0	1182.9	1182.2	1177.1	1169.9	1161.2	1150.3	1133.3	1112.3	1091.9	1070.9
15°	1215.9	1213.4	1208.7	1202.5	1192.0	1181.5	1168.8	1153.6	1134.4	1111.9	1093.0
17.5°	1254.4	1254.7	1247.5	1241.0	1227.2	1209.8	1190.9	1167.7	1143.1	1120.2	1101.4
20°	1304.4	1303.3	1296.1	1279.4	1263.1	1239.9	1217.4	1187.3	1155.4	1123.1	1098.1
22.5°	1376.2	1372.9	1365.3	1342.1	1314.5	1283.0	1245.7	1207.2	1167.0	1129.3	1094.5
25°	1455.9	1453.8	1438.9	1413.5	1378.0	1331.9	1287.0	1236.6	1181.1	1132.9	1093.0
27.5°	1521.9	1517.6	1504.1	1480.2	1445.4	1395.8	1333.8	1268.5	1202.5	1139.1	1084.3
30°	1513.9	1519.4	1517.9	1508.1	1483.5	1440.0	1383.8	1308.0	1225.7	1147.8	1079.3
32.5°	1400.1	1404.8	1421.1	1447.6	1455.6	1444.7	1406.3	1337.7	1251.8	1160.5	1075.3
35°	1208.0	1214.5	1239.1	1277.9	1328.7	1371.1	1379.8	1342.1	1265.6	1170.3	1071.3
37.5°	963.6	1006.0	1022.7	1062.2	1142.0	1219.2	1286.3	1301.5	1260.2	1168.1	1066.6
40°	788.9	797.6	834.6	880.6	945.1	1026.3	1133.3	1210.5	1213.0	1153.6	1051.3
42.5°	646.8	658.4	680.8	715.3	768.2	849.4	960.7	1068.7	1127.1	1113.7	1031.4
45°	540.2	548.5	567.0	595.3	637.7	704.8	799.7	917.6	1011.1	1047.7	992.6
47.5°	456.8	461.1	478.2	501.0	533.6	584.4	661.6	768.2	879.5	953.8	939.3
50°	391.5	396.6	408.9	425.3	451.7	493.0	551.8	637.0	752.6	848.7	867.9
52.5°	340.8	344.8	351.3	366.5	387.2	416.6	461.1	536.2	637.3	741.0	791.8
55°	296.6	299.5	305.6	314.3	331.7	354.6	395.5	448.8	532.9	635.9	701.1
57.5°	258.8	260.3	263.9	272.6	285.3	302.4	333.5	382.1	443.0	539.8	611.6
60°	223.3	224.8	229.8	235.3	244.7	259.9	283.1	314.7	372.7	449.2	522.0
62.5°	195.0	195.8	197.2	202.7	210.6	221.5	238.5	262.8	306.0	370.9	438.7
65°	168.2	168.6	169.3	173.7	178.7	187.4	199.4	217.5	252.3	303.1	364.0
67.5°	141.4	142.1	144.7	146.1	152.3	156.6	164.2	178.7	205.6	241.8	291.1
70°	119.6	119.3	121.8	123.6	125.4	130.9	135.6	146.8	162.1	188.2	227.7
72.5°	99.3	98.2	99.0	99.3	101.9	105.1	109.8	115.6	126.5	142.5	170.4
75°	78.3	78.7	78.7	79.4	81.2	82.7	84.1	87.7	94.3	106.2	122.5
77.5°	58.7	58.0	59.8	59.8	61.3	63.1	64.2	65.6	68.2	73.6	83.4
80°	39.9	39.9	40.2	41.3	41.0	41.7	43.5	45.0	48.2	51.1	54.0
82.5°	28.3	27.9	28.3	28.3	28.3	29.0	29.4	29.4	30.1	31.2	33.0
85°	16.7	16.7	17.0	17.0	17.4	17.4	17.8	17.8	17.8	18.1	18.5
87.5°	8.0	7.6	7.3	7.3	7.6	8.3	8.0	7.6	7.6	7.6	8.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	883.1	883.1	883.1	883.1	883.1	883.1	883.1	883.1	883.1	883.1	883.1
2.5°	913.6	911.0	906.3	902.0	896.5	891.8	888.6	884.6	879.5	873.3	868.3
5°	947.7	939.7	929.2	920.1	908.5	899.4	890.0	881.0	871.9	860.3	850.1
7.5°	985.4	969.8	955.3	936.4	919.4	904.5	890.0	875.2	861.0	845.1	830.2
10°	1019.4	999.5	977.4	952.0	928.8	906.7	886.4	866.5	845.4	826.9	807.0
12.5°	1051.3	1024.2	998.1	964.3	935.3	907.1	879.9	853.8	830.9	805.5	783.8
15°	1068.0	1042.6	1014.4	975.2	936.4	903.8	873.3	841.1	813.2	786.3	762.4
17.5°	1077.8	1051.0	1018.4	980.3	938.6	898.0	859.6	825.1	793.2	762.4	735.9
20°	1073.5	1047.7	1014.0	978.1	932.8	890.0	847.6	808.4	771.8	738.8	710.2
22.5°	1062.9	1036.1	1003.9	965.4	923.0	877.0	830.9	788.5	749.7	715.3	683.4
25°	1052.4	1016.2	982.8	945.8	904.9	859.9	813.2	767.1	726.2	691.4	657.3
27.5°	1042.3	998.4	957.1	921.6	877.7	837.1	791.4	743.9	701.1	666.0	631.2
30°	1027.4	976.7	929.9	888.2	847.2	809.2	766.4	720.4	676.1	639.5	604.0
32.5°	1008.9	954.2	901.6	852.0	812.8	775.1	737.4	693.9	651.1	613.0	576.8
35°	994.1	925.2	869.4	818.2	774.4	737.8	703.0	667.4	624.3	585.1	550.0
37.5°	973.4	897.6	834.6	778.7	733.0	696.8	668.9	635.2	594.9	556.9	524.2
40°	954.9	867.2	796.5	741.4	692.8	654.0	628.3	600.7	564.8	529.7	497.0
42.5°	930.3	839.3	758.1	700.1	651.1	614.1	588.0	564.8	536.2	503.6	468.0
45°	896.5	801.6	718.5	656.9	607.6	571.0	546.7	525.3	502.5	472.0	441.6
47.5°	856.3	765.7	678.3	610.5	563.0	528.6	504.6	486.9	470.2	443.7	412.9
50°	805.9	719.3	634.4	569.2	517.7	485.4	463.3	449.9	435.0	411.5	386.8
52.5°	746.5	671.4	588.8	521.7	473.8	444.1	423.1	409.7	398.1	379.9	356.7
55°	683.4	615.6	539.4	478.9	434.3	403.9	383.6	370.9	363.6	347.3	328.8
57.5°	612.0	559.8	490.9	431.8	391.5	361.1	345.9	334.6	326.3	314.3	300.5
60°	536.5	502.5	442.3	386.8	350.6	321.9	308.5	299.5	291.8	282.1	271.9
62.5°	460.1	437.6	387.2	341.5	308.9	286.0	273.7	265.7	256.7	250.9	241.1
65°	393.3	371.2	335.0	297.6	266.8	247.6	238.5	231.3	225.9	218.6	211.7
67.5°	319.4	309.2	282.4	254.5	232.0	213.5	205.6	199.8	193.6	189.2	184.2
70°	252.3	248.0	230.2	213.2	192.5	180.9	173.7	171.5	163.5	159.2	155.9
72.5°	192.9	191.4	183.1	172.6	159.5	149.7	143.2	140.7	136.3	133.0	131.2
75°	140.3	141.0	139.2	131.6	126.2	119.6	113.8	112.4	108.8	105.9	104.0
77.5°	95.7	99.3	98.6	98.2	95.7	91.0	88.5	87.4	83.4	82.3	81.9
80°	60.9	64.9	68.5	68.2	67.4	66.3	64.5	63.4	61.6	60.5	59.8
82.5°	35.5	39.2	42.1	44.6	44.6	43.5	42.4	42.1	42.1	41.3	41.3
85°	19.2	19.9	21.0	23.6	25.4	25.7	25.4	25.0	23.9	24.3	24.7
87.5°	8.3	8.3	8.7	8.7	8.3	10.2	11.2	11.6	10.9	10.2	9.4
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	883.1	883.1	883.1	883.1	883.1	883.1	883.1	883.1	883.1	883.1	883.1
2.5°	864.6	859.6	855.9	848.7	843.6	841.4	837.5	836.4	840.4	837.5	837.1
5°	842.5	832.0	823.7	815.3	806.3	800.5	791.8	790.3	788.1	784.9	784.2
7.5°	816.8	803.7	793.9	780.2	768.9	759.9	749.0	744.6	742.5	738.5	732.0
10°	790.7	774.4	759.9	746.1	731.2	719.3	708.4	700.1	694.6	689.5	687.4
12.5°	764.9	748.3	728.7	711.3	694.3	680.5	668.1	663.4	657.3	651.1	645.3
15°	738.1	716.0	695.7	676.5	662.3	647.8	636.2	628.3	619.2	616.7	606.9
17.5°	709.5	688.8	664.9	644.2	628.3	613.0	600.4	590.9	584.0	574.3	569.5
20°	683.0	657.3	634.1	615.6	597.5	578.6	565.6	557.9	551.4	543.8	540.2
22.5°	654.7	629.7	605.8	583.3	564.8	546.3	538.0	530.0	522.4	515.5	510.4
25°	627.2	601.8	576.8	554.3	535.1	521.7	510.8	501.7	497.8	490.9	485.8
27.5°	599.6	572.8	547.4	523.9	509.0	495.6	486.9	479.6	472.0	465.9	461.1
30°	573.2	545.6	517.3	499.6	483.6	470.9	461.1	454.3	448.8	443.4	440.1
32.5°	546.7	518.1	493.8	474.2	459.3	448.8	438.7	432.1	426.3	420.2	416.2
35°	518.1	489.1	468.8	449.9	435.0	424.9	418.0	408.6	403.9	399.5	395.5
37.5°	492.3	464.8	442.3	426.0	412.2	402.4	393.3	388.6	382.5	378.8	375.6
40°	463.3	438.7	418.7	401.3	391.9	380.7	372.3	365.8	361.4	356.4	352.7
42.5°	437.2	414.7	395.5	380.3	368.0	358.9	350.9	344.4	338.6	335.3	332.4
45°	412.9	390.1	371.2	356.7	345.9	336.8	328.5	325.2	317.9	313.6	312.1
47.5°	387.5	366.9	348.4	335.0	323.7	315.4	307.4	300.2	296.6	292.2	290.0
50°	361.8	342.2	325.2	312.1	301.3	291.8	284.6	280.2	274.8	270.8	267.9
52.5°	336.1	318.3	301.3	288.9	279.9	270.4	262.1	257.8	252.7	250.5	248.7
55°	311.8	292.6	278.1	265.7	255.9	247.2	239.6	235.3	232.0	229.5	228.8
57.5°	283.9	268.3	254.5	243.6	233.1	224.8	217.9	213.9	211.0	210.6	208.1
60°	256.7	242.9	230.6	218.6	209.9	202.3	196.5	191.8	188.9	188.5	187.8
62.5°	229.5	216.4	205.2	195.0	187.4	180.2	174.7	169.3	167.9	165.7	163.9
65°	202.7	190.7	181.3	172.9	164.6	158.4	153.0	149.7	145.7	143.6	139.6
67.5°	176.2	166.4	157.3	150.5	143.6	137.4	132.7	128.0	125.1	123.3	120.0
70°	150.1	142.8	133.8	126.2	121.1	116.4	112.7	107.3	105.5	104.0	102.6
72.5°	125.4	119.3	112.0	106.2	101.1	96.8	92.4	90.6	88.8	87.4	86.6
75°	102.6	96.4	89.9	85.6	81.9	78.3	76.1	74.3	73.6	73.2	71.8
77.5°	79.8	76.1	70.7	66.7	64.2	62.7	60.5	59.8	60.2	58.4	58.0
80°	57.6	55.8	51.5	50.0	48.2	46.8	45.7	43.9	42.1	41.3	40.2
82.5°	39.2	37.3	36.3	33.7	32.3	31.5	30.5	30.1	30.8	29.7	29.4
85°	22.8	21.0	20.3	19.9	19.2	19.9	19.6	19.2	18.9	18.5	18.9
87.5°	9.1	9.1	8.7	9.4	8.3	8.7	8.7	8.3	8.3	8.3	8.0
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: P242919

CATALOG NUMBER: S125RDRP-S610D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	883.1	883.1	883.1	883.1
2.5°	836.7	832.7	831.7	833.1
5°	780.5	776.9	778.7	778.0
7.5°	733.0	728.3	722.9	724.3
10°	682.6	679.0	676.8	678.7
12.5°	640.2	638.4	636.6	635.2
15°	602.5	598.2	596.4	591.7
17.5°	566.3	564.8	560.1	556.9
20°	534.7	533.3	528.6	531.5
22.5°	508.6	505.0	504.3	502.5
25°	484.3	479.6	477.8	475.6
27.5°	459.7	457.2	454.6	453.9
30°	435.8	433.2	431.4	431.4
32.5°	414.4	412.6	410.7	410.4
35°	393.7	390.8	390.1	387.9
37.5°	372.0	369.4	369.4	369.8
40°	351.3	349.5	349.1	346.6
42.5°	329.2	328.5	327.0	326.3
45°	309.6	307.1	307.1	305.3
47.5°	288.9	286.8	287.1	285.0
50°	268.3	267.2	266.8	266.1
52.5°	247.6	247.2	249.1	247.2
55°	229.5	228.4	230.6	228.4
57.5°	208.1	207.4	209.5	208.1
60°	187.1	184.9	186.0	186.3
62.5°	162.1	161.0	161.7	159.5
65°	138.9	137.8	136.3	135.6
67.5°	120.7	117.5	117.5	118.2
70°	100.4	100.4	100.1	100.1
72.5°	86.3	85.9	85.2	84.8
75°	71.8	72.1	71.4	71.1
77.5°	56.2	54.4	55.1	54.4
80°	40.2	39.9	41.0	39.9
82.5°	29.7	29.4	29.7	29.0
85°	19.2	18.9	18.5	18.9
87.5°	8.3	8.0	8.0	8.0
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P242919

CATALOG NUMBER: S125RDRP-S610D840-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	16.01	17.54	16.37	17.85	18.17	16.98	18.52	17.35	18.83	19.15
	3H	17.13	18.51	17.51	18.84	19.20	18.46	19.84	18.84	20.17	20.53
	4H	17.52	18.81	17.92	19.16	19.54	18.98	20.27	19.38	20.62	20.99
	6H	17.75	18.94	18.16	19.31	19.70	19.32	20.52	19.74	20.88	21.27
	8H	17.81	18.94	18.23	19.33	19.73	19.42	20.56	19.85	20.95	21.35
	12H	17.84	18.93	18.27	19.31	19.74	19.48	20.56	19.91	20.95	21.37
4H	2H	17.59	18.89	17.99	19.23	19.61	17.83	19.12	18.23	19.47	19.85
	3H	18.66	19.73	19.07	20.13	20.53	19.50	20.57	19.91	20.97	21.37
	4H	19.05	20.01	19.48	20.42	20.86	20.08	21.04	20.51	21.46	21.90
	6H	19.30	20.14	19.76	20.58	21.04	20.51	21.35	20.97	21.79	22.25
	8H	19.36	20.15	19.83	20.59	21.06	20.63	21.41	21.09	21.86	22.32
	12H	19.41	20.11	19.89	20.58	21.06	20.71	21.41	21.19	21.89	22.36
8H	4H	19.42	20.20	19.88	20.65	21.11	20.23	21.01	20.69	21.45	21.92
	6H	19.72	20.37	20.22	20.86	21.34	20.74	21.39	21.24	21.88	22.36
	8H	19.82	20.40	20.33	20.91	21.39	20.92	21.50	21.43	22.01	22.50
	12H	19.90	20.41	20.41	20.90	21.47	21.06	21.57	21.57	22.06	22.62
12H	4H	19.45	20.14	19.93	20.62	21.09	20.22	20.92	20.70	21.40	21.87
	6H	19.76	20.34	20.27	20.85	21.34	20.74	21.32	21.25	21.83	22.31
	8H	19.89	20.40	20.40	20.89	21.46	20.95	21.46	21.46	21.96	22.52