

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: P242909

Luminaire Tested: S125RDRP-S610D830-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P242909  
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-S610D830-X4F0-XX-UDD-A-W  
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER  
STANDARD LIGHT ENGINE  
Light Source: (92) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

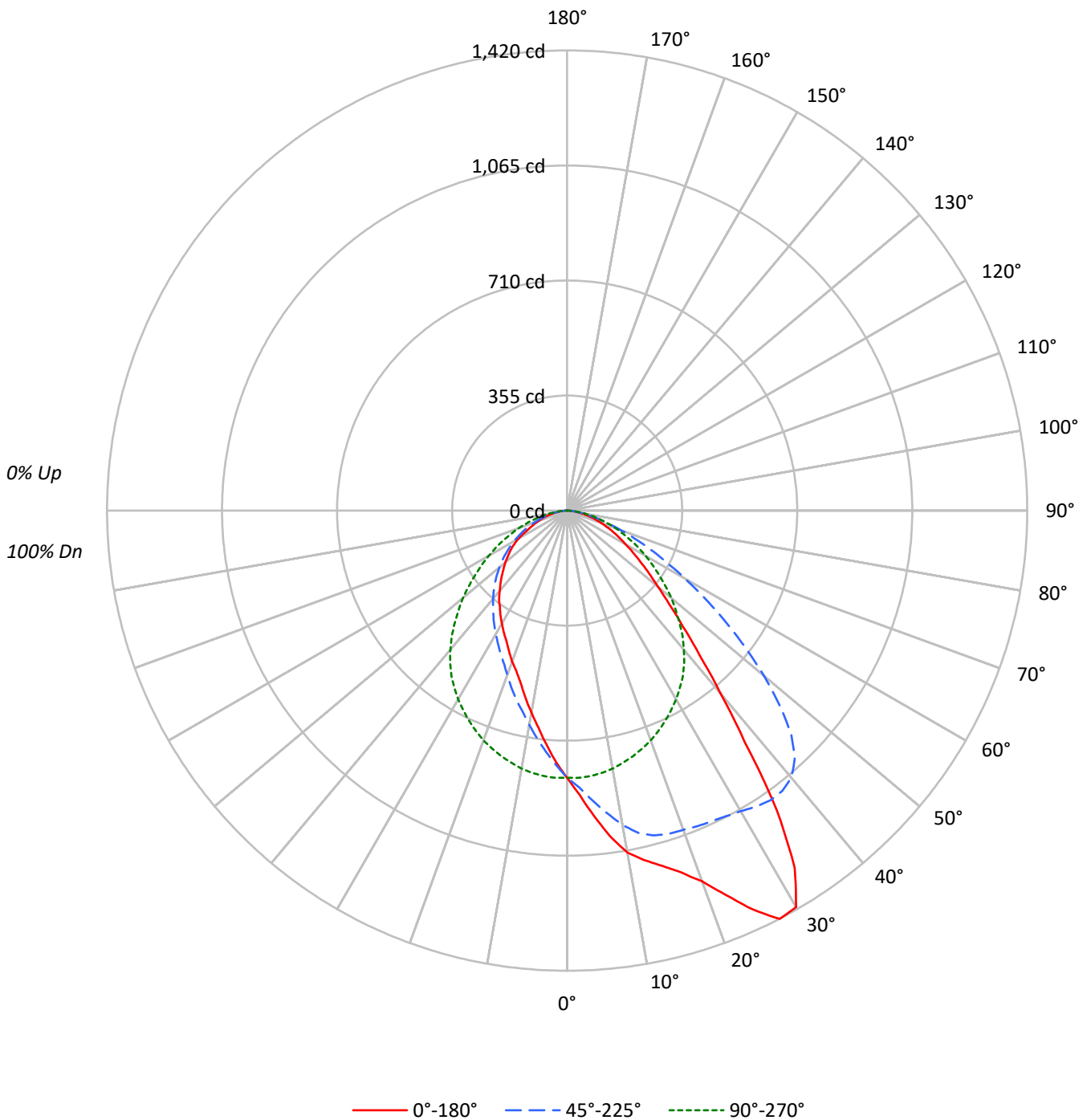
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2135.6 lumens  
Efficiency: N/A  
Efficacy: 113.6 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<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

TEST NUMBER: P242909

CATALOG NUMBER: S125RDRP-S610D830-X4F0-XX-UDD-A-W

### 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°	5859	5859	5859	5859	5859
5°	6740	6407	5866	5330	5180
10°	7732	7106	5836	4845	4571
15°	8351	7636	5776	4449	4063
20°	9208	7929	5707	4084	3751
25°	10657	8292	5615	3818	3481
30°	11596	8792	5517	3607	3305
35°	9782	9476	5405	3441	3142
40°	6831	9990	5202	3296	3001
45°	5068	9829	4928	3159	2864
50°	4040	8758	4643	3012	2747
55°	3430	7354	4289	2860	2642
60°	2962	5959	3973	2684	2472
65°	2640	4758	3631	2487	2127
70°	2321	3649	3325	2257	1941
75°	2007	2721	2881	2007	1821
80°	1523	1952	2423	1785	1523
85°	1272	1378	1900	1517	1435

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 9829 cd/sqm



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CATALOG NUMBER: S125RDRP-S610D830-X4F0-XX-UDD-A-W

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.0	3.7
10°-20°	231.7	10.9
20°-30°	367.4	17.2
30°-40°	444.0	20.8
40°-50°	395.4	18.5
50°-60°	303.2	14.2
60°-70°	196.9	9.2
70°-80°	95.5	4.5
80°-90°	22.5	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°	678.2	31.8
0°-40°	1122.2	52.5
0°-60°	1820.7	85.3
0°-90°	2135.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2135.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	824	824	824	824	824	
5°	945	898	822	747	726	94
15°	1135	1038	785	605	552	325
25°	1359	1057	716	487	444	626
35°	1127	1092	623	397	362	683
45°	504	978	490	314	285	400
55°	277	594	346	231	213	251
65°	157	283	216	148	126	156
75°	73	99	105	73	66	78
85°	16	17	23	19	18	18
90°	0	0	0	0	0	



TEST NUMBER: P242909

CATALOG NUMBER: S125RDRP-S610D830-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3
2.5°	877.7	877.0	878.4	874.7	875.0	869.3	869.3	864.9	859.1	854.7	852.7
5°	944.7	945.4	944.0	939.0	935.6	930.5	924.8	914.6	906.1	898.0	891.6
7.5°	1013.1	1013.7	1009.3	1008.3	999.5	994.1	981.3	968.1	956.6	941.3	930.5
10°	1071.3	1070.9	1066.2	1062.5	1055.0	1045.5	1033.0	1016.8	1001.6	984.6	968.4
12.5°	1105.1	1104.1	1103.4	1098.7	1091.9	1083.8	1073.6	1057.7	1038.1	1019.2	999.5
15°	1134.9	1132.5	1128.1	1122.4	1112.5	1102.7	1090.9	1076.7	1058.7	1037.8	1020.2
17.5°	1170.7	1171.1	1164.3	1158.2	1145.4	1129.1	1111.5	1089.9	1066.9	1045.5	1028.0
20°	1217.4	1216.4	1209.7	1194.1	1178.9	1157.2	1136.2	1108.1	1078.4	1048.3	1024.9
22.5°	1284.4	1281.4	1274.3	1252.6	1226.9	1197.5	1162.6	1126.8	1089.2	1054.0	1021.5
25°	1358.9	1356.8	1343.0	1319.3	1286.1	1243.2	1201.2	1154.2	1102.4	1057.4	1020.2
27.5°	1420.5	1416.4	1403.9	1381.5	1349.1	1302.7	1244.8	1183.9	1122.4	1063.1	1012.0
30°	1413.0	1418.1	1416.7	1407.6	1384.6	1344.0	1291.5	1220.8	1144.0	1071.3	1007.3
32.5°	1306.8	1311.2	1326.4	1351.1	1358.5	1348.4	1312.5	1248.6	1168.4	1083.1	1003.6
35°	1127.4	1133.5	1156.5	1192.7	1240.1	1279.7	1287.8	1252.6	1181.2	1092.2	999.9
37.5°	899.4	939.0	954.5	991.4	1065.8	1137.9	1200.5	1214.7	1176.2	1090.2	995.5
40°	736.3	744.4	778.9	821.9	882.1	957.9	1057.7	1129.8	1132.2	1076.7	981.3
42.5°	603.6	614.5	635.4	667.6	717.0	792.8	896.7	997.5	1052.0	1039.5	962.6
45°	504.2	511.9	529.2	555.6	595.2	657.8	746.4	856.4	943.7	977.9	926.4
47.5°	426.3	430.4	446.3	467.6	498.1	545.4	617.5	717.0	820.9	890.2	876.7
50°	365.4	370.2	381.7	396.9	421.6	460.2	515.0	594.5	702.4	792.1	810.0
52.5°	318.1	321.8	327.9	342.1	361.4	388.8	430.4	500.4	594.8	691.6	739.0
55°	276.8	279.5	285.2	293.4	309.6	330.9	369.2	418.9	497.4	593.5	654.4
57.5°	241.6	242.9	246.3	254.5	266.3	282.2	311.3	356.6	413.5	503.8	570.8
60°	208.4	209.8	214.5	219.6	228.4	242.6	264.3	293.7	347.8	419.2	487.2
62.5°	182.0	182.7	184.1	189.1	196.6	206.7	222.6	245.3	285.6	346.1	409.4
65°	157.0	157.3	158.0	162.1	166.8	174.9	186.1	203.0	235.5	282.9	339.7
67.5°	132.0	132.6	135.0	136.4	142.1	146.2	153.3	166.8	191.9	225.7	271.7
70°	111.7	111.3	113.7	115.4	117.1	122.1	126.5	137.0	151.2	175.6	212.5
72.5°	92.7	91.7	92.4	92.7	95.1	98.1	102.5	107.9	118.1	133.0	159.0
75°	73.1	73.4	73.4	74.1	75.8	77.1	78.5	81.9	88.0	99.1	114.4
77.5°	54.8	54.1	55.8	55.8	57.2	58.9	59.9	61.2	63.6	68.7	77.8
80°	37.2	37.2	37.6	38.6	38.2	38.9	40.6	42.0	45.0	47.7	50.4
82.5°	26.4	26.1	26.4	26.4	26.4	27.1	27.4	27.4	28.1	29.1	30.8
85°	15.6	15.6	15.9	15.9	16.2	16.2	16.6	16.6	16.6	16.9	17.3
87.5°	7.4	7.1	6.8	6.8	7.1	7.8	7.4	7.1	7.1	7.1	7.4
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: P242909

CATALOG NUMBER: S125RDRP-S610D830-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3
2.5°	852.7	850.3	845.9	841.9	836.8	832.4	829.3	825.6	820.9	815.1	810.4
5°	884.5	877.0	867.2	858.8	847.9	839.5	830.7	822.2	813.8	802.9	793.5
7.5°	919.7	905.1	891.6	874.0	858.1	844.2	830.7	816.8	803.6	788.7	774.9
10°	951.5	932.9	912.2	888.5	866.9	846.3	827.3	808.7	789.1	771.8	753.2
12.5°	981.3	955.9	931.5	900.1	873.0	846.6	821.2	796.8	775.5	751.8	731.5
15°	996.8	973.1	946.7	910.2	874.0	843.5	815.1	785.0	759.0	733.9	711.6
17.5°	1006.0	980.9	950.5	914.9	876.0	838.1	802.3	770.1	740.3	711.6	686.9
20°	1001.9	977.9	946.4	912.9	870.6	830.7	791.1	754.6	720.4	689.6	662.9
22.5°	992.1	967.0	936.9	901.1	861.5	818.5	775.5	735.9	699.7	667.6	637.8
25°	982.3	948.4	917.3	882.8	844.6	802.6	759.0	716.0	677.7	645.3	613.5
27.5°	972.8	931.9	893.3	860.1	819.2	781.3	738.7	694.3	654.4	621.6	589.1
30°	958.9	911.6	867.9	829.0	790.8	755.2	715.3	672.3	631.1	596.9	563.7
32.5°	941.7	890.6	841.5	795.2	758.6	723.4	688.2	647.6	607.7	572.2	538.3
35°	927.8	863.5	811.4	763.7	722.7	688.6	656.1	622.9	582.7	546.1	513.3
37.5°	908.5	837.8	778.9	726.8	684.2	650.3	624.3	592.8	555.3	519.7	489.3
40°	891.3	809.4	743.4	692.0	646.6	610.4	586.4	560.7	527.2	494.4	463.9
42.5°	868.2	783.3	707.5	653.4	607.7	573.2	548.8	527.2	500.4	470.0	436.8
45°	836.8	748.1	670.6	613.1	567.1	532.9	510.3	490.3	469.0	440.6	412.1
47.5°	799.2	714.6	633.1	569.8	525.5	493.3	471.0	454.4	438.9	414.2	385.4
50°	752.2	671.3	592.1	531.2	483.2	453.1	432.4	419.9	406.0	384.0	361.0
52.5°	696.7	626.7	549.5	486.9	442.2	414.5	394.9	382.4	371.5	354.6	333.0
55°	637.8	574.5	503.5	447.0	405.4	376.9	358.0	346.1	339.4	324.2	306.9
57.5°	571.2	522.4	458.1	403.0	365.4	337.0	322.8	312.3	304.5	293.4	280.5
60°	500.8	469.0	412.8	361.0	327.2	300.5	287.9	279.5	272.4	263.2	253.8
62.5°	429.4	408.4	361.4	318.7	288.3	267.0	255.5	248.0	239.6	234.1	225.0
65°	367.1	346.5	312.6	277.8	249.0	231.1	222.6	215.9	210.8	204.0	197.6
67.5°	298.1	288.6	263.6	237.5	216.6	199.3	191.9	186.4	180.7	176.6	171.9
70°	235.5	231.4	214.9	199.0	179.7	168.8	162.1	160.0	152.6	148.5	145.5
72.5°	180.0	178.7	170.9	161.1	148.9	139.7	133.7	131.3	127.2	124.2	122.5
75°	130.9	131.6	129.9	122.8	117.8	111.7	106.2	104.9	101.5	98.8	97.1
77.5°	89.3	92.7	92.0	91.7	89.3	84.9	82.6	81.5	77.8	76.8	76.5
80°	56.8	60.6	64.0	63.6	62.9	61.9	60.2	59.2	57.5	56.5	55.8
82.5°	33.2	36.5	39.3	41.6	41.6	40.6	39.6	39.3	39.3	38.6	38.6
85°	17.9	18.6	19.6	22.0	23.7	24.0	23.7	23.3	22.3	22.7	23.0
87.5°	7.8	7.8	8.1	8.1	7.8	9.5	10.5	10.8	10.2	9.5	8.8
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°	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3
2.5°	807.0	802.3	798.9	792.1	787.4	785.3	781.6	780.6	784.3	781.6	781.3
5°	786.4	776.5	768.8	761.0	752.5	747.1	739.0	737.6	735.6	732.6	731.9
7.5°	762.3	750.2	741.0	728.2	717.7	709.2	699.1	695.0	693.0	689.2	683.2
10°	738.0	722.7	709.2	696.4	682.5	671.3	661.2	653.4	648.3	643.6	641.5
12.5°	713.9	698.4	680.1	663.9	648.0	635.1	623.6	619.2	613.5	607.7	602.3
15°	688.9	668.3	649.3	631.4	618.2	604.7	593.8	586.4	577.9	575.6	566.4
17.5°	662.2	642.9	620.6	601.3	586.4	572.2	560.3	551.5	545.1	536.0	531.6
20°	637.5	613.5	591.8	574.5	557.6	540.0	527.8	520.7	514.7	507.5	504.2
22.5°	611.1	587.7	565.4	544.4	527.2	509.9	502.1	494.7	487.6	481.2	476.4
25°	585.4	561.7	538.3	517.4	499.4	486.9	476.8	468.3	464.6	458.1	453.4
27.5°	559.7	534.6	510.9	488.9	475.1	462.5	454.4	447.7	440.6	434.8	430.4
30°	535.0	509.2	482.8	466.3	451.4	439.5	430.4	424.0	418.9	413.8	410.8
32.5°	510.3	483.5	460.9	442.6	428.7	418.9	409.4	403.3	397.9	392.2	388.4
35°	483.5	456.5	437.5	419.9	406.0	396.6	390.1	381.3	376.9	372.9	369.2
37.5°	459.5	433.8	412.8	397.6	384.7	375.6	367.1	362.7	357.0	353.6	350.5
40°	432.4	409.4	390.8	374.6	365.8	355.3	347.5	341.4	337.3	332.6	329.2
42.5°	408.1	387.1	369.2	354.9	343.4	335.0	327.5	321.4	316.0	313.0	310.3
45°	385.4	364.1	346.5	333.0	322.8	314.3	306.6	303.5	296.7	292.7	291.3
47.5°	361.7	342.4	325.2	312.6	302.2	294.4	286.9	280.2	276.8	272.7	270.7
50°	337.7	319.4	303.5	291.3	281.2	272.4	265.6	261.6	256.5	252.8	250.1
52.5°	313.7	297.1	281.2	269.7	261.2	252.4	244.6	240.6	235.8	233.8	232.1
55°	291.0	273.1	259.5	248.0	238.9	230.8	223.7	219.6	216.6	214.2	213.5
57.5°	264.9	250.4	237.5	227.4	217.6	209.8	203.4	199.6	196.9	196.6	194.2
60°	239.6	226.7	215.2	204.0	195.9	188.8	183.4	179.0	176.3	175.9	175.3
62.5°	214.2	202.0	191.5	182.0	174.9	168.2	163.1	158.0	156.7	154.6	152.9
65°	189.1	178.0	169.2	161.4	153.6	147.9	142.8	139.7	136.0	134.0	130.3
67.5°	164.4	155.3	146.9	140.4	134.0	128.2	123.8	119.4	116.7	115.0	112.0
70°	140.1	133.3	124.9	117.8	113.0	108.6	105.2	100.2	98.5	97.1	95.8
72.5°	117.1	111.3	104.6	99.1	94.4	90.3	86.3	84.6	82.9	81.5	80.9
75°	95.8	90.0	83.9	79.9	76.5	73.1	71.1	69.4	68.7	68.3	67.0
77.5°	74.4	71.1	66.0	62.3	59.9	58.5	56.5	55.8	56.2	54.5	54.1
80°	53.8	52.1	48.0	46.7	45.0	43.6	42.6	40.9	39.3	38.6	37.6
82.5°	36.5	34.9	33.8	31.5	30.1	29.4	28.4	28.1	28.8	27.7	27.4
85°	21.3	19.6	18.9	18.6	17.9	18.6	18.3	17.9	17.6	17.3	17.6
87.5°	8.5	8.5	8.1	8.8	7.8	8.1	8.1	7.8	7.8	7.8	7.4
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: P242909

CATALOG NUMBER: S125RDRP-S610D830-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	824.3	824.3	824.3	824.3
2.5°	780.9	777.2	776.2	777.6
5°	728.5	725.1	726.8	726.1
7.5°	684.2	679.8	674.7	676.1
10°	637.1	633.8	631.7	633.4
12.5°	597.6	595.9	594.2	592.8
15°	562.4	558.3	556.6	552.2
17.5°	528.5	527.2	522.8	519.7
20°	499.1	497.7	493.3	496.0
22.5°	474.7	471.3	470.7	469.0
25°	452.1	447.7	446.0	443.9
27.5°	429.0	426.7	424.3	423.6
30°	406.7	404.3	402.7	402.7
32.5°	386.8	385.1	383.4	383.0
35°	367.5	364.8	364.1	362.1
37.5°	347.2	344.8	344.8	345.1
40°	327.9	326.2	325.8	323.5
42.5°	307.2	306.6	305.2	304.5
45°	289.0	286.6	286.6	284.9
47.5°	269.7	267.6	268.0	266.0
50°	250.4	249.4	249.0	248.4
52.5°	231.1	230.8	232.5	230.8
55°	214.2	213.2	215.2	213.2
57.5°	194.2	193.5	195.6	194.2
60°	174.6	172.6	173.6	173.9
62.5°	151.2	150.2	150.9	148.9
65°	129.6	128.6	127.2	126.5
67.5°	112.7	109.6	109.6	110.3
70°	93.7	93.7	93.4	93.4
72.5°	80.5	80.2	79.5	79.2
75°	67.0	67.3	66.7	66.3
77.5°	52.4	50.8	51.4	50.8
80°	37.6	37.2	38.2	37.2
82.5°	27.7	27.4	27.7	27.1
85°	17.9	17.6	17.3	17.6
87.5°	7.8	7.4	7.4	7.4
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242909  
 CATALOG NUMBER: S125RDRP-S610D830-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	15.77	17.30	16.13	17.61	17.93	16.74	18.28	17.11	18.59	18.91
	3H	16.89	18.27	17.27	18.60	18.96	18.22	19.60	18.60	19.93	20.29
	4H	17.28	18.57	17.68	18.92	19.30	18.74	20.03	19.14	20.38	20.75
	6H	17.51	18.70	17.92	19.07	19.46	19.08	20.28	19.50	20.64	21.03
	8H	17.57	18.70	17.99	19.09	19.49	19.18	20.32	19.61	20.71	21.11
	12H	17.60	18.69	18.03	19.07	19.50	19.24	20.32	19.67	20.71	21.14
4H	2H	17.36	18.65	17.75	18.99	19.37	17.59	18.88	17.99	19.23	19.61
	3H	18.42	19.49	18.83	19.89	20.29	19.26	20.33	19.67	20.73	21.13
	4H	18.81	19.77	19.24	20.18	20.62	19.84	20.80	20.27	21.22	21.66
	6H	19.06	19.90	19.52	20.34	20.80	20.27	21.11	20.73	21.55	22.01
	8H	19.12	19.91	19.59	20.35	20.82	20.39	21.17	20.85	21.62	22.08
	12H	19.17	19.87	19.65	20.34	20.82	20.47	21.17	20.95	21.65	22.12
8H	4H	19.18	19.96	19.64	20.41	20.87	19.99	20.77	20.45	21.21	21.68
	6H	19.48	20.13	19.98	20.62	21.10	20.50	21.15	21.00	21.64	22.12
	8H	19.58	20.16	20.09	20.67	21.15	20.68	21.26	21.19	21.77	22.26
	12H	19.66	20.17	20.17	20.66	21.23	20.82	21.33	21.33	21.82	22.39
12H	4H	19.21	19.90	19.69	20.38	20.85	19.98	20.68	20.46	21.16	21.63
	6H	19.52	20.10	20.03	20.61	21.10	20.50	21.08	21.01	21.59	22.07
	8H	19.65	20.16	20.16	20.65	21.22	20.71	21.22	21.22	21.72	22.28