

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: P243593

Luminaire Tested: S124RDRP-H795D927-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P243593  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-70)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDRP-H795D927-X4F0-XX-UDD-A-W  
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: (184) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

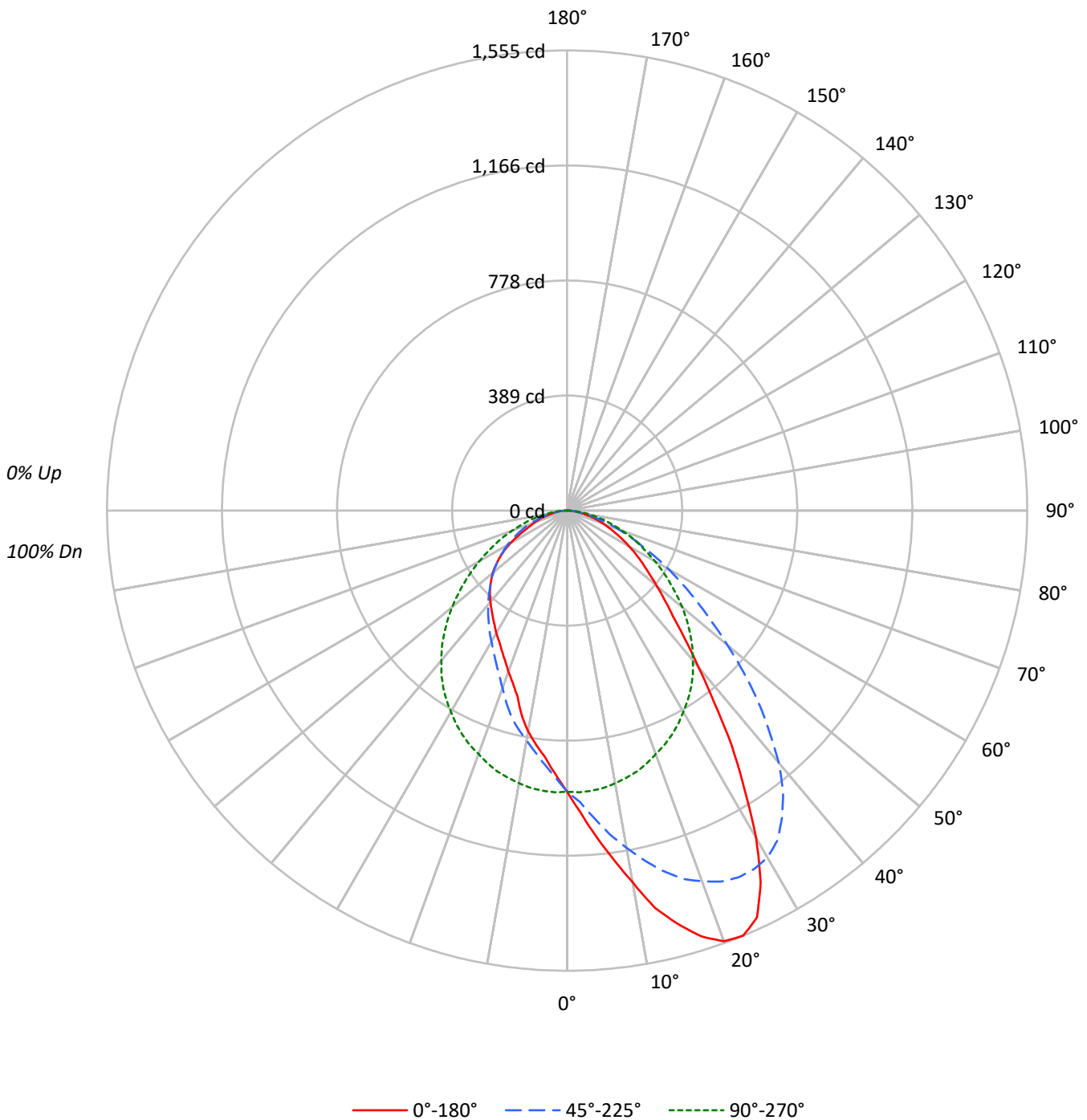
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2451.1 lumens  
Efficiency: N/A  
Efficacy: 103.9 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.23 / 1.39  
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 23.6  
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	110	105	102	98	107	103	100	97	99	96	93	95	93	91	92	90	88					86				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75					73				
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65					63				
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57					55				
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50					48				
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44					42				
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40					38				
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36					34				
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32					31				
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	39	34	30					28				

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

	0°	45°	90°	135°	180°
0°	8442	8442	8442	8442	8442
5°	9834	9302	8478	7695	7484
10°	11516	10445	8442	7120	6843
15°	13307	11612	8399	6653	5976
20°	14651	12611	8281	6042	5478
25°	14886	13417	8204	5575	5122
30°	13103	13892	8058	5246	4912
35°	10514	13737	7921	5012	4752
40°	7998	12904	7669	4811	4677
45°	6351	11465	7387	4645	4621
50°	5451	9773	7022	4496	4541
55°	4815	8299	6568	4339	4321
60°	4313	7015	6094	4142	3957
65°	3796	5771	5633	3857	3330
70°	3384	4759	5112	3537	2999
75°	2947	3733	4650	3112	2669
80°	2498	2856	3993	2631	2462
85°	2183	2336	3437	2560	2489

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 55°  
 Vertical Angle: 45°  
 Luminance: 12338 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.1	3.8
10°-20°	279.5	11.4
20°-30°	436.1	17.8
30°-40°	486.3	19.8
40°-50°	437.2	17.8
50°-60°	345.4	14.1
60°-70°	229.4	9.4
70°-80°	115.0	4.7
80°-90°	30.0	1.2
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°	807.7	33.0
0°-40°	1294.1	52.8
0°-60°	2076.7	84.7
0°-90°	2451.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2451.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	950	950	950	950	950	
5°	1102	1042	950	862	839	110
15°	1446	1262	913	723	649	411
25°	1518	1368	836	568	522	679
35°	969	1266	730	462	438	602
45°	505	912	588	370	368	400
55°	311	536	424	280	279	280
65°	180	274	268	183	158	181
75°	86	109	135	91	78	92
85°	21	23	34	25	24	24
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°	949.7	949.7	949.7	949.7	949.7	949.7	949.7	949.7	949.7	949.7	949.7
2.5°	1020.0	1016.3	1015.9	1011.1	1010.7	1005.9	1004.4	1000.4	992.2	985.9	986.3
5°	1102.1	1099.1	1098.7	1093.9	1092.5	1086.5	1077.3	1066.2	1053.3	1042.5	1035.5
7.5°	1186.4	1191.6	1186.0	1186.0	1175.3	1168.3	1150.1	1140.9	1118.7	1103.2	1086.9
10°	1275.9	1280.7	1278.5	1274.0	1260.0	1245.6	1226.7	1208.6	1181.6	1157.2	1140.9
12.5°	1375.7	1361.3	1370.6	1356.9	1345.4	1322.5	1304.4	1268.1	1246.7	1211.2	1179.4
15°	1446.0	1440.5	1440.1	1430.8	1418.3	1393.1	1373.5	1335.8	1299.2	1261.8	1226.0
17.5°	1508.9	1509.6	1504.4	1489.6	1473.4	1449.0	1422.3	1388.7	1346.9	1305.5	1262.9
20°	1548.8	1549.2	1545.5	1537.7	1520.0	1497.8	1470.4	1426.4	1379.1	1333.2	1290.7
22.5°	1554.7	1555.8	1554.7	1549.9	1537.7	1519.6	1494.5	1457.1	1409.4	1356.9	1306.2
25°	1517.8	1521.4	1521.8	1528.5	1522.2	1515.2	1496.7	1465.2	1421.2	1368.0	1312.9
27.5°	1416.4	1426.8	1436.4	1448.2	1458.9	1468.6	1470.0	1453.4	1415.7	1366.1	1313.6
30°	1276.6	1288.8	1308.1	1320.6	1353.9	1375.0	1403.5	1409.8	1391.6	1353.5	1302.9
32.5°	1113.9	1126.8	1134.2	1175.7	1223.4	1257.8	1305.1	1333.2	1340.2	1322.1	1280.7
35°	968.9	971.2	976.7	1023.7	1071.0	1123.2	1182.0	1230.8	1264.1	1265.9	1245.6
37.5°	813.6	816.2	838.0	873.9	914.9	972.3	1039.9	1109.5	1170.5	1198.6	1192.7
40°	689.3	688.6	711.9	743.0	782.9	842.5	912.4	988.2	1053.3	1112.1	1126.1
42.5°	588.8	591.3	611.3	629.4	667.9	709.7	784.4	863.2	946.7	1011.1	1054.0
45°	505.2	511.8	525.5	542.5	571.4	609.8	670.9	749.3	834.7	912.0	963.4
47.5°	447.5	449.3	456.4	477.4	496.7	527.7	579.9	646.4	722.3	808.8	876.5
50°	394.2	398.7	401.3	413.8	432.7	462.3	502.6	552.1	627.2	706.7	791.4
52.5°	348.4	351.0	355.8	367.2	382.0	402.7	434.5	478.2	540.7	614.3	694.2
55°	310.7	311.0	315.8	324.0	335.4	351.3	381.7	413.1	468.6	535.5	608.0
57.5°	276.6	274.4	278.8	283.7	294.7	308.4	328.0	360.2	403.5	460.4	525.9
60°	242.6	244.5	244.1	249.6	255.5	269.2	285.9	307.0	342.5	394.6	450.1
62.5°	210.8	210.4	214.1	217.5	221.5	232.6	246.3	263.7	291.4	329.9	383.5
65°	180.5	181.2	184.2	186.8	191.2	198.2	208.6	222.6	244.8	274.4	319.5
67.5°	153.1	155.7	157.2	157.9	162.0	167.2	176.0	187.5	202.7	226.3	264.1
70°	130.2	130.9	131.7	134.2	136.1	139.1	145.7	152.0	165.7	183.1	210.4
72.5°	108.7	108.0	110.2	110.9	111.7	114.6	118.7	122.0	130.9	145.7	162.7
75°	85.8	86.2	86.5	87.6	90.6	91.0	92.8	96.5	102.8	108.7	120.2
77.5°	64.3	65.5	65.1	66.2	67.3	68.4	69.2	72.5	76.9	81.7	87.3
80°	48.8	48.8	48.8	49.6	48.8	51.4	51.4	52.5	53.6	55.8	59.9
82.5°	33.3	34.0	34.4	34.8	35.1	35.1	35.5	36.2	37.7	38.5	39.6
85°	21.4	20.7	21.1	21.1	21.1	21.1	21.8	22.6	22.6	22.9	24.0
87.5°	9.6	9.6	9.6	9.6	9.2	9.6	10.0	10.0	10.4	10.4	11.1
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°	949.7	949.7	949.7	949.7	949.7	949.7	949.7	949.7	949.7	949.7	949.7
2.5°	984.1	983.0	977.4	971.5	966.0	960.4	958.6	953.0	946.4	940.5	933.8
5°	1028.1	1019.2	1007.0	994.5	981.5	969.7	960.4	950.1	938.2	924.2	913.1
7.5°	1072.5	1056.2	1036.2	1017.8	995.6	977.8	960.1	945.3	928.3	908.3	893.1
10°	1115.8	1088.8	1064.3	1035.1	1007.0	982.6	960.1	935.3	912.7	891.3	870.2
12.5°	1150.1	1123.2	1088.0	1052.1	1015.9	984.1	953.8	924.6	896.4	870.6	847.3
15°	1189.3	1150.5	1107.2	1067.7	1018.1	978.9	944.2	912.7	880.5	849.1	823.6
17.5°	1218.2	1172.3	1118.7	1073.2	1025.5	976.7	934.9	895.3	858.4	825.4	799.2
20°	1240.4	1186.0	1132.4	1074.7	1017.8	967.8	920.9	875.4	838.0	802.1	774.4
22.5°	1250.0	1192.7	1133.1	1070.6	1010.0	953.4	904.6	857.6	815.5	778.5	746.3
25°	1254.1	1191.2	1129.4	1058.4	997.0	939.3	885.0	836.5	793.3	751.5	719.7
27.5°	1250.7	1183.4	1112.4	1045.5	976.0	919.4	861.7	812.5	767.4	727.1	691.6
30°	1241.9	1165.7	1095.0	1020.0	953.0	893.5	837.3	785.1	739.6	698.6	663.5
32.5°	1218.9	1145.7	1065.5	992.2	920.1	861.3	810.3	758.9	712.6	669.7	635.7
35°	1190.5	1118.7	1034.8	958.2	886.8	827.3	775.9	730.0	684.5	639.1	604.3
37.5°	1154.6	1081.7	1000.7	918.3	848.4	790.7	743.7	697.5	652.4	610.6	571.7
40°	1106.1	1039.6	958.2	875.4	805.1	749.6	703.4	660.9	620.9	579.9	538.1
42.5°	1045.9	995.2	911.2	829.5	760.7	705.6	664.6	626.5	588.0	545.9	508.1
45°	981.5	938.2	862.1	779.6	714.1	660.5	621.3	587.6	551.4	514.1	474.5
47.5°	909.0	876.8	811.0	729.3	660.5	614.6	578.4	547.7	514.8	481.5	443.0
50°	827.3	807.7	751.5	677.1	611.7	565.1	535.1	507.8	479.7	446.4	413.5
52.5°	745.6	741.9	689.3	623.9	562.1	518.9	489.6	464.5	441.6	410.1	382.4
55°	659.8	670.9	627.2	566.9	511.8	470.0	444.2	423.8	403.8	377.2	350.6
57.5°	583.6	596.2	566.2	510.7	459.3	423.8	401.6	383.1	365.8	341.3	323.6
60°	499.3	522.2	506.3	455.6	410.1	378.3	357.6	342.8	328.4	307.3	291.8
62.5°	432.7	448.6	439.3	401.6	361.3	335.4	316.9	303.3	291.8	275.5	260.4
65°	361.3	381.3	376.5	351.7	316.2	292.5	278.5	267.8	255.9	243.0	230.4
67.5°	297.0	317.7	316.6	299.6	273.3	253.7	240.4	232.6	223.0	210.4	202.7
70°	238.9	258.1	258.9	250.4	231.9	213.4	203.8	196.7	189.3	180.1	174.6
72.5°	185.7	203.0	206.0	201.9	190.1	177.9	169.4	164.6	158.3	150.5	145.7
75°	138.7	151.3	158.3	156.4	151.6	143.5	138.7	135.4	129.1	123.5	119.5
77.5°	98.7	108.7	115.8	118.7	116.5	113.2	108.7	106.1	99.5	96.9	94.7
80°	66.2	75.1	81.4	83.2	84.3	83.6	79.5	78.0	74.7	73.6	71.4
82.5°	40.7	45.5	49.9	54.7	57.0	57.0	54.7	55.1	52.1	50.7	49.9
85°	24.8	25.9	26.6	30.3	33.3	34.4	33.3	33.7	32.5	31.4	30.3
87.5°	11.5	11.5	11.8	12.6	13.3	15.5	16.3	17.4	15.9	15.9	13.3
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°	949.7	949.7	949.7	949.7	949.7	949.7	949.7	949.7	949.7	949.7	949.7
2.5°	929.7	924.9	921.2	915.3	910.5	902.7	900.1	900.1	901.6	899.8	901.6
5°	905.3	896.4	886.8	878.3	869.1	862.4	855.8	854.3	853.5	849.1	849.5
7.5°	880.9	869.1	856.9	845.8	834.3	824.0	816.9	814.0	811.4	808.4	805.1
10°	854.7	841.0	826.6	814.0	802.9	788.8	781.8	779.6	772.2	770.7	765.5
12.5°	826.9	812.9	798.4	782.2	771.4	757.8	747.4	742.6	735.6	730.4	722.6
15°	805.1	787.4	768.1	752.2	738.2	723.0	708.9	699.7	690.5	676.0	669.0
17.5°	778.1	757.8	741.1	724.1	703.8	681.6	664.9	651.3	641.3	629.4	622.4
20°	748.9	730.0	709.3	685.3	663.8	638.7	623.5	612.1	604.3	597.3	593.6
22.5°	723.0	701.2	672.7	649.8	619.8	599.9	587.6	580.3	572.9	565.5	561.8
25°	694.9	669.4	634.6	606.5	583.9	568.4	556.6	549.6	541.8	537.4	531.8
27.5°	667.2	634.2	599.5	574.0	556.2	538.1	528.1	522.6	516.6	510.4	505.9
30°	633.5	596.2	567.3	544.0	526.3	511.1	503.7	495.6	490.4	486.7	484.1
32.5°	598.4	562.5	536.2	516.3	498.9	487.4	478.2	473.0	468.6	464.5	461.5
35°	565.5	530.7	508.5	489.3	474.9	461.9	454.9	450.1	446.4	443.0	441.6
37.5°	532.9	503.3	479.3	464.1	449.0	438.6	432.0	427.5	425.3	422.0	422.3
40°	500.7	474.1	454.9	437.5	423.4	414.6	409.4	407.5	404.2	403.1	404.2
42.5°	471.9	447.5	429.0	412.7	400.5	392.0	387.9	385.4	384.2	383.9	384.2
45°	443.8	420.9	403.1	389.8	377.2	369.5	366.1	364.3	363.2	365.0	365.4
47.5°	415.7	395.0	379.1	363.5	353.2	347.6	344.3	342.8	343.9	344.7	347.3
50°	387.9	368.7	352.1	338.4	330.3	325.1	324.0	321.4	323.2	324.3	326.2
52.5°	359.8	342.5	327.7	314.7	306.2	302.9	300.3	299.2	301.8	301.8	303.6
55°	331.4	316.2	302.5	290.7	284.0	280.0	278.1	276.6	278.1	278.5	278.1
57.5°	304.7	290.3	275.9	265.9	260.4	255.9	254.1	253.3	253.0	254.4	254.1
60°	276.6	262.9	251.5	241.1	235.6	233.0	228.9	229.7	229.7	229.7	226.0
62.5°	248.5	234.8	224.9	217.8	211.2	206.7	206.0	204.9	202.7	202.3	197.5
65°	219.7	209.3	200.8	193.8	187.1	183.4	182.3	179.0	176.4	171.6	168.3
67.5°	193.0	185.7	175.7	169.7	164.2	159.8	155.7	153.1	147.9	143.1	140.2
70°	166.4	158.7	152.0	145.7	140.2	136.1	131.3	126.5	123.2	120.2	118.0
72.5°	139.8	133.1	127.6	121.7	115.8	111.7	108.0	104.3	102.8	101.3	100.2
75°	115.0	108.7	103.6	98.7	95.4	90.6	88.8	87.3	85.8	83.9	81.7
77.5°	91.0	86.2	82.1	78.0	75.1	72.5	71.0	66.6	62.9	62.1	61.4
80°	67.7	64.0	61.4	58.4	55.1	51.4	50.3	48.8	48.1	48.1	48.4
82.5°	47.3	45.1	42.2	39.6	38.5	37.0	37.0	36.6	36.2	36.6	36.6
85°	28.8	25.9	25.1	24.8	25.1	25.1	25.1	25.1	24.8	25.1	24.4
87.5°	12.6	13.7	14.1	12.9	13.3	12.6	12.9	12.9	12.9	13.3	12.9
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: P243593

CATALOG NUMBER: S124RDRP-H795D927-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	949.7	949.7	949.7	949.7
2.5°	899.4	899.4	895.7	892.8
5°	848.7	843.9	843.2	838.8
7.5°	801.4	800.7	798.8	798.8
10°	763.7	761.1	758.5	758.1
12.5°	710.4	714.1	709.7	708.6
15°	663.8	660.9	657.2	649.4
17.5°	620.6	615.0	613.5	610.2
20°	586.5	582.5	581.0	579.1
22.5°	554.4	553.6	549.2	548.1
25°	530.7	527.0	524.0	522.2
27.5°	504.8	502.2	500.7	497.8
30°	481.1	480.4	478.6	478.6
32.5°	459.7	457.5	457.5	457.1
35°	440.1	440.8	438.6	437.9
37.5°	421.6	420.5	420.9	420.1
40°	403.5	402.7	402.7	403.1
42.5°	385.0	385.4	386.1	386.1
45°	366.5	366.9	367.6	367.6
47.5°	349.1	348.4	349.1	348.4
50°	326.9	329.1	328.8	328.4
52.5°	304.4	303.6	305.1	304.7
55°	280.0	278.8	280.3	278.8
57.5°	252.6	253.0	253.0	252.2
60°	225.2	224.1	222.6	222.6
62.5°	193.4	190.1	187.9	189.3
65°	162.7	160.1	159.4	158.3
67.5°	138.3	135.4	134.2	133.9
70°	117.2	115.8	115.4	115.4
72.5°	99.5	99.5	98.4	97.6
75°	81.0	79.5	77.7	77.7
77.5°	60.7	60.3	59.9	59.9
80°	47.3	47.3	47.7	48.1
82.5°	35.5	35.9	36.2	36.2
85°	24.0	24.0	24.4	24.4
87.5°	12.9	12.9	12.9	12.6
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243593  
 CATALOG NUMBER: S124RDRP-H795D927-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	16.75	18.29	17.12	18.60	18.91	18.45	19.98	18.81	20.30	20.61
	3H	17.98	19.36	18.36	19.69	20.05	19.93	21.31	20.31	21.64	22.00
	4H	18.42	19.71	18.82	20.06	20.44	20.47	21.76	20.87	22.11	22.49
	6H	18.70	19.89	19.11	20.26	20.65	20.86	22.05	21.27	22.42	22.81
	8H	18.78	19.92	19.21	20.31	20.71	20.98	22.12	21.41	22.51	22.91
	12H	18.83	19.92	19.26	20.31	20.73	21.06	22.15	21.49	22.53	22.96
4H	2H	17.96	19.25	18.36	19.60	19.98	18.98	20.27	19.38	20.62	20.99
	3H	19.23	20.30	19.64	20.70	21.10	20.75	21.82	21.16	22.22	22.63
	4H	19.70	20.66	20.13	21.08	21.52	21.41	22.38	21.84	22.79	23.23
	6H	20.03	20.87	20.49	21.31	21.77	21.91	22.75	22.36	23.19	23.65
	8H	20.13	20.92	20.60	21.36	21.83	22.06	22.85	22.53	23.29	23.76
	12H	20.21	20.91	20.69	21.39	21.86	22.18	22.88	22.66	23.36	23.83
8H	4H	20.11	20.90	20.57	21.34	21.81	21.54	22.32	22.00	22.77	23.23
	6H	20.51	21.16	21.00	21.65	22.13	22.14	22.78	22.63	23.28	23.75
	8H	20.65	21.24	21.17	21.75	22.23	22.35	22.94	22.87	23.45	23.93
	12H	20.78	21.29	21.28	21.78	22.35	22.53	23.05	23.04	23.54	24.11
12H	4H	20.15	20.86	20.64	21.33	21.80	21.53	22.23	22.01	22.71	23.18
	6H	20.56	21.15	21.08	21.66	22.14	22.13	22.71	22.64	23.22	23.71
	8H	20.76	21.27	21.27	21.76	22.33	22.39	22.91	22.90	23.40	23.96