

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: P243598

Luminaire Tested: S124RDRP-H795D830-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P243598  
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-H795D830-X4F0-XX-UDD-A-W  
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: (184) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

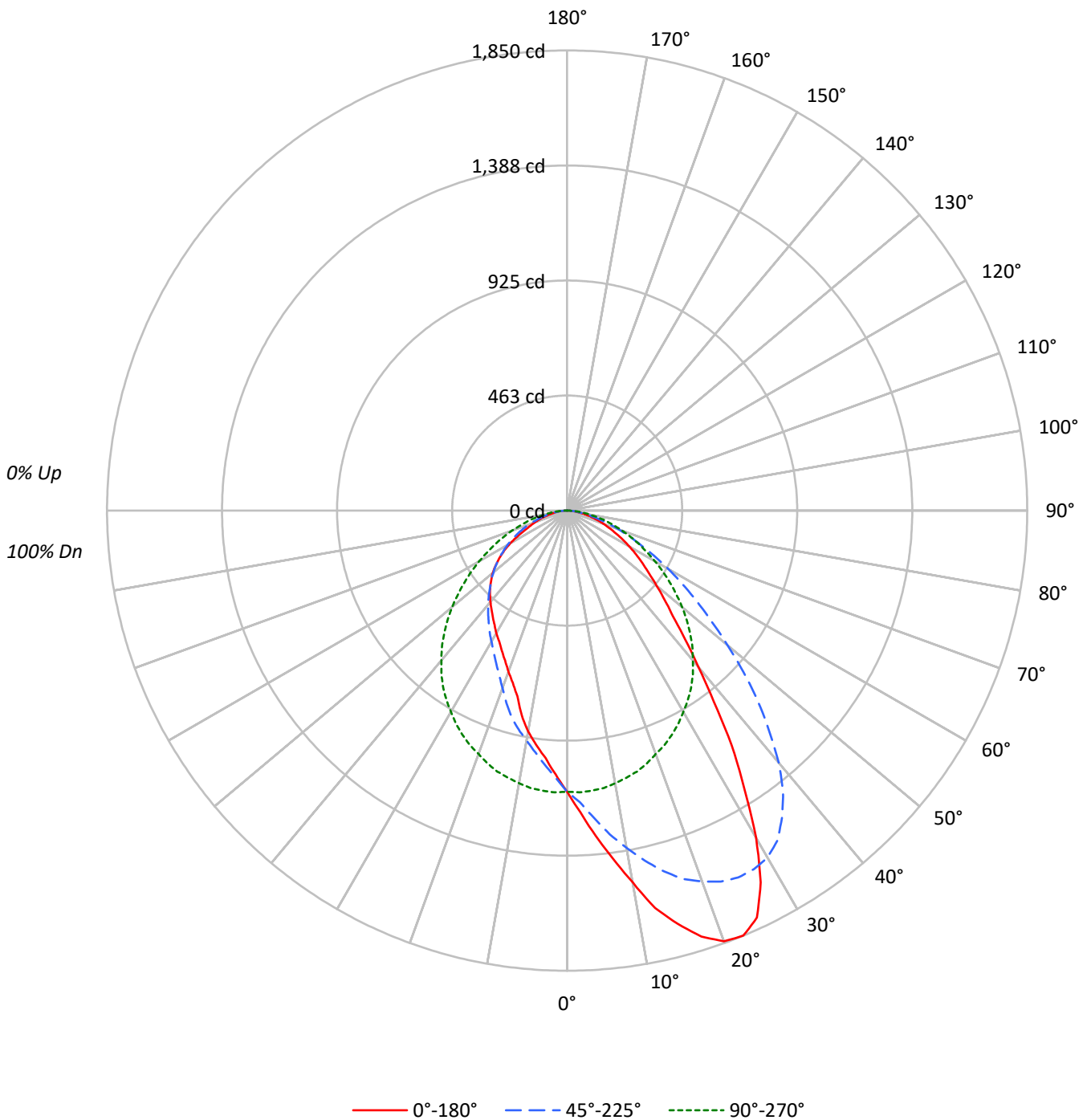
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2916.3 lumens  
Efficiency: N/A  
Efficacy: 123.6 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 (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	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					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	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	46	71	59	51	45	58	50	45	56	50	45	54	49	44	42					42			
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38					38			
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31					31			
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	39	34	30	28					28			

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

	0°	45°	90°	135°	180°
0°	10044	10044	10044	10044	10044
5°	11700	11068	10086	9156	8905
10°	13702	12427	10044	8472	8141
15°	15833	13816	9994	7916	7111
20°	17432	15005	9852	7188	6518
25°	17711	15963	9762	6633	6094
30°	15590	16530	9589	6242	5844
35°	12509	16344	9425	5964	5654
40°	9517	15353	9124	5724	5565
45°	7556	13641	8790	5526	5498
50°	6487	11629	8354	5349	5403
55°	5728	9873	7815	5162	5142
60°	5132	8347	7252	4928	4709
65°	4516	6867	6701	4589	3961
70°	4026	5660	6084	4208	3568
75°	3507	4444	5529	3702	3173
80°	2974	3399	4750	3133	2928
85°	2601	2784	4080	3049	2958

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 55°  
 Vertical Angle: 45°  
 Luminance: 14680 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.6	3.8
10°-20°	332.5	11.4
20°-30°	518.9	17.8
30°-40°	578.6	19.8
40°-50°	520.2	17.8
50°-60°	411.0	14.1
60°-70°	273.0	9.4
70°-80°	136.9	4.7
80°-90°	35.6	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°	961.0	33.0
0°-40°	1539.7	52.8
0°-60°	2470.9	84.7
0°-90°	2916.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2916.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1130	1130	1130	1130	1130	
5°	1311	1240	1130	1026	998	131
15°	1720	1501	1086	860	773	489
25°	1806	1628	995	676	621	808
35°	1153	1506	869	550	521	716
45°	601	1085	699	440	437	476
55°	370	637	504	333	332	333
65°	215	326	319	218	188	215
75°	102	129	161	108	92	109
85°	26	27	40	30	29	29
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°	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0
2.5°	1213.6	1209.2	1208.7	1203.0	1202.6	1196.8	1195.1	1190.2	1180.6	1173.1	1173.5
5°	1311.2	1307.7	1307.3	1301.6	1299.8	1292.8	1281.8	1268.6	1253.2	1240.4	1232.0
7.5°	1411.6	1417.7	1411.1	1411.1	1398.4	1390.0	1368.5	1357.5	1331.0	1312.6	1293.2
10°	1518.1	1523.8	1521.1	1515.9	1499.1	1482.0	1459.5	1438.0	1405.9	1376.8	1357.5
12.5°	1636.9	1619.7	1630.7	1614.4	1600.8	1573.5	1551.9	1508.8	1483.3	1441.1	1403.2
15°	1720.5	1713.9	1713.4	1702.4	1687.5	1657.5	1634.2	1589.3	1545.8	1501.3	1458.7
17.5°	1795.3	1796.1	1790.0	1772.4	1753.0	1724.0	1692.3	1652.3	1602.5	1553.3	1502.7
20°	1842.8	1843.2	1838.8	1829.6	1808.5	1782.1	1749.5	1697.1	1640.8	1586.3	1535.7
22.5°	1849.8	1851.1	1849.8	1844.1	1829.6	1808.0	1778.1	1733.7	1676.9	1614.4	1554.1
25°	1805.8	1810.2	1810.7	1818.6	1811.1	1802.7	1780.7	1743.3	1691.0	1627.6	1562.1
27.5°	1685.3	1697.6	1709.0	1723.1	1735.9	1747.3	1749.1	1729.3	1684.4	1625.4	1562.9
30°	1518.9	1533.5	1556.3	1571.3	1610.9	1636.0	1669.9	1677.3	1655.8	1610.5	1550.2
32.5°	1325.3	1340.7	1349.5	1398.8	1455.6	1496.5	1552.8	1586.3	1594.6	1573.1	1523.8
35°	1152.8	1155.5	1162.1	1218.0	1274.3	1336.3	1406.3	1464.4	1504.0	1506.2	1482.0
37.5°	968.0	971.1	997.1	1039.8	1088.6	1156.8	1237.3	1320.0	1392.7	1426.1	1419.1
40°	820.2	819.3	847.0	884.0	931.5	1002.4	1085.5	1175.7	1253.2	1323.1	1339.9
42.5°	700.5	703.6	727.3	748.9	794.7	844.4	933.3	1027.0	1126.4	1203.0	1254.0
45°	601.1	609.0	625.3	645.5	679.8	725.6	798.2	891.5	993.1	1085.1	1146.2
47.5°	532.4	534.6	543.0	568.1	590.9	627.9	689.9	769.1	859.4	962.3	1042.8
50°	469.1	474.3	477.4	492.4	514.8	550.0	598.0	656.9	746.3	840.9	941.6
52.5°	414.5	417.6	423.3	436.9	454.5	479.2	517.0	568.9	643.3	730.9	825.9
55°	369.6	370.1	375.8	385.5	399.1	418.0	454.1	491.5	557.5	637.1	723.4
57.5°	329.1	326.5	331.8	337.5	350.7	367.0	390.3	428.6	480.1	547.8	625.7
60°	288.7	290.9	290.4	297.0	304.1	320.3	340.1	365.2	407.5	469.5	535.5
62.5°	250.8	250.4	254.8	258.7	263.6	276.8	293.1	313.7	346.7	392.5	456.3
65°	214.7	215.6	219.1	222.2	227.5	235.8	248.2	264.9	291.3	326.5	380.2
67.5°	182.2	185.2	187.0	187.9	192.7	198.9	209.4	223.1	241.1	269.3	314.2
70°	154.9	155.8	156.6	159.7	161.9	165.4	173.4	180.8	197.1	217.8	250.4
72.5°	129.4	128.5	131.1	132.0	132.9	136.4	141.2	145.2	155.8	173.4	193.6
75°	102.1	102.5	103.0	104.3	107.8	108.2	110.4	114.8	122.3	129.4	143.0
77.5°	76.6	77.9	77.4	78.8	80.1	81.4	82.3	86.2	91.5	97.2	103.8
80°	58.1	58.1	58.1	59.0	58.1	61.2	61.2	62.5	63.8	66.4	71.3
82.5°	39.6	40.5	40.9	41.4	41.8	41.8	42.2	43.1	44.9	45.8	47.1
85°	25.5	24.6	25.1	25.1	25.1	25.1	26.0	26.8	26.8	27.3	28.6
87.5°	11.4	11.4	11.4	11.4	11.0	11.4	11.9	11.9	12.3	12.3	13.2
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°	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0
2.5°	1170.9	1169.6	1163.0	1155.9	1149.3	1142.7	1140.5	1133.9	1126.0	1119.0	1111.0
5°	1223.2	1212.7	1198.2	1183.2	1167.8	1153.7	1142.7	1130.4	1116.3	1099.6	1086.4
7.5°	1276.0	1256.7	1232.9	1210.9	1184.5	1163.4	1142.3	1124.7	1104.4	1080.7	1062.6
10°	1327.5	1295.4	1266.4	1231.6	1198.2	1169.1	1142.3	1112.8	1086.0	1060.4	1035.4
12.5°	1368.5	1336.3	1294.5	1251.8	1208.7	1170.9	1134.8	1100.0	1066.6	1035.8	1008.1
15°	1415.1	1368.9	1317.4	1270.3	1211.4	1164.7	1123.4	1086.0	1047.7	1010.3	979.9
17.5°	1449.4	1394.9	1331.0	1276.9	1220.2	1162.1	1112.4	1065.3	1021.3	982.1	950.9
20°	1475.8	1411.1	1347.3	1278.7	1210.9	1151.5	1095.6	1041.5	997.1	954.4	921.4
22.5°	1487.3	1419.1	1348.2	1273.8	1201.7	1134.4	1076.3	1020.4	970.2	926.2	888.0
25°	1492.1	1417.3	1343.8	1259.3	1186.3	1117.6	1053.0	995.3	943.8	894.1	856.3
27.5°	1488.1	1408.1	1323.6	1243.9	1161.2	1093.9	1025.2	966.7	913.0	865.1	822.8
30°	1477.6	1386.9	1302.9	1213.6	1133.9	1063.1	996.2	934.2	880.0	831.2	789.4
32.5°	1450.3	1363.2	1267.7	1180.6	1094.8	1024.8	964.1	902.9	847.9	796.9	756.4
35°	1416.4	1331.0	1231.2	1140.1	1055.2	984.3	923.2	868.6	814.5	760.3	719.0
37.5°	1373.7	1287.0	1190.7	1092.6	1009.4	940.8	884.9	829.9	776.2	726.5	680.3
40°	1316.1	1236.9	1140.1	1041.5	957.9	891.9	836.9	786.3	738.8	689.9	640.2
42.5°	1244.4	1184.1	1084.2	987.0	905.1	839.6	790.7	745.4	699.6	649.5	604.6
45°	1167.8	1116.3	1025.7	927.6	849.7	785.9	739.2	699.2	656.1	611.6	564.5
47.5°	1081.6	1043.3	965.0	867.7	785.9	731.3	688.2	651.7	612.5	572.9	527.1
50°	984.3	961.0	894.1	805.7	727.8	672.3	636.7	604.1	570.7	531.1	491.9
52.5°	887.1	882.7	820.2	742.3	668.8	617.3	582.6	552.7	525.4	488.0	455.0
55°	785.0	798.2	746.3	674.5	609.0	559.3	528.5	504.3	480.5	448.8	417.1
57.5°	694.3	709.3	673.7	607.7	546.5	504.3	477.9	455.9	435.2	406.1	385.0
60°	594.0	621.3	602.4	542.1	488.0	450.1	425.5	407.9	390.7	365.7	347.2
62.5°	514.8	533.7	522.7	477.9	429.9	399.1	377.1	360.8	347.2	327.8	309.8
65°	429.9	453.7	447.9	418.5	376.2	348.1	331.3	318.6	304.5	289.1	274.1
67.5°	353.3	378.0	376.7	356.4	325.2	301.9	286.0	276.8	265.3	250.4	241.1
70°	284.3	307.1	308.0	297.9	275.9	253.9	242.4	234.1	225.3	214.3	207.7
72.5°	220.9	241.6	245.1	240.2	226.2	211.6	201.5	195.8	188.3	179.1	173.4
75°	165.0	180.0	188.3	186.1	180.4	170.7	165.0	161.0	153.6	147.0	142.1
77.5°	117.5	129.4	137.7	141.2	138.6	134.6	129.4	126.3	118.4	115.3	112.6
80°	78.8	89.3	96.8	99.0	100.3	99.4	94.6	92.8	88.9	87.6	84.9
82.5°	48.4	54.1	59.4	65.1	67.8	67.8	65.1	65.6	62.0	60.3	59.4
85°	29.5	30.8	31.7	36.1	39.6	40.9	39.6	40.0	38.7	37.4	36.1
87.5°	13.6	13.6	14.1	15.0	15.8	18.5	19.4	20.7	18.9	18.9	15.8
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°	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0
2.5°	1106.2	1100.5	1096.1	1089.0	1083.3	1074.1	1071.0	1071.0	1072.8	1070.6	1072.8
5°	1077.2	1066.6	1055.2	1045.0	1034.0	1026.1	1018.2	1016.4	1015.6	1010.3	1010.7
7.5°	1048.1	1034.0	1019.5	1006.3	992.7	980.4	972.0	968.5	965.4	961.9	957.9
10°	1016.9	1000.6	983.4	968.5	955.3	938.6	930.2	927.6	918.8	917.0	910.8
12.5°	983.9	967.2	950.0	930.6	917.9	901.6	889.3	883.6	875.2	869.0	859.8
15°	957.9	936.8	913.9	895.0	878.3	860.2	843.5	832.5	821.5	804.4	796.0
17.5°	925.8	901.6	881.8	861.6	837.4	811.0	791.1	774.9	763.0	748.9	740.5
20°	891.0	868.6	844.0	815.4	789.8	759.9	741.9	728.2	719.0	710.6	706.2
22.5°	860.2	834.3	800.4	773.1	737.5	713.7	699.2	690.4	681.6	672.8	668.4
25°	826.8	796.4	755.1	721.6	694.8	676.3	662.2	653.9	644.6	639.3	632.7
27.5°	793.8	754.6	713.3	682.9	661.8	640.2	628.3	621.7	614.7	607.2	601.9
30°	753.7	709.3	675.0	647.3	626.1	608.1	599.3	589.6	583.5	579.1	576.0
32.5°	711.9	669.3	638.0	614.3	593.6	579.9	568.9	562.8	557.5	552.7	549.1
35°	672.8	631.4	605.0	582.1	565.0	549.6	541.2	535.5	531.1	527.1	525.4
37.5°	634.1	598.9	570.3	552.2	534.2	521.9	513.9	508.7	506.0	502.1	502.5
40°	595.8	564.1	541.2	520.5	503.8	493.3	487.1	484.9	480.9	479.6	480.9
42.5°	561.5	532.4	510.4	491.1	476.5	466.4	461.6	458.5	457.2	456.7	457.2
45°	528.0	500.7	479.6	463.8	448.8	439.6	435.6	433.4	432.1	434.3	434.7
47.5°	494.6	469.9	451.0	432.5	420.2	413.6	409.7	407.9	409.2	410.1	413.2
50°	461.6	438.7	418.9	402.6	392.9	386.8	385.5	382.4	384.6	385.9	388.1
52.5°	428.1	407.5	389.9	374.5	364.3	360.4	357.3	356.0	359.1	359.1	361.3
55°	394.3	376.2	359.9	345.9	337.9	333.1	330.9	329.1	330.9	331.3	330.9
57.5°	362.6	345.4	328.3	316.4	309.8	304.5	302.3	301.4	301.0	302.7	302.3
60°	329.1	312.9	299.2	286.9	280.3	277.2	272.4	273.3	273.3	273.3	268.9
62.5°	295.7	279.4	267.5	259.2	251.2	246.0	245.1	243.8	241.1	240.7	235.0
65°	261.4	249.0	238.9	230.6	222.6	218.2	216.9	213.0	209.9	204.2	200.2
67.5°	229.7	220.9	209.0	202.0	195.4	190.1	185.2	182.2	176.0	170.3	166.8
70°	198.0	188.8	180.8	173.4	166.8	161.9	156.2	150.5	146.5	143.0	140.4
72.5°	166.3	158.4	151.8	144.8	137.7	132.9	128.5	124.1	122.3	120.6	119.2
75°	136.8	129.4	123.2	117.5	113.5	107.8	105.6	103.8	102.1	99.9	97.2
77.5°	108.2	102.5	97.7	92.8	89.3	86.2	84.5	79.2	74.8	73.9	73.0
80°	80.5	76.1	73.0	69.5	65.6	61.2	59.8	58.1	57.2	57.2	57.6
82.5°	56.3	53.7	50.2	47.1	45.8	44.0	44.0	43.6	43.1	43.6	43.6
85°	34.3	30.8	29.9	29.5	29.9	29.9	29.9	29.9	29.5	29.9	29.0
87.5°	15.0	16.3	16.7	15.4	15.8	15.0	15.4	15.4	15.4	15.8	15.4
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: P243598

CATALOG NUMBER: S124RDRP-H795D830-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1130.0	1130.0	1130.0	1130.0
2.5°	1070.1	1070.1	1065.7	1062.2
5°	1009.8	1004.1	1003.2	998.0
7.5°	953.5	952.6	950.4	950.4
10°	908.6	905.6	902.5	902.0
12.5°	845.3	849.7	844.4	843.1
15°	789.8	786.3	781.9	772.7
17.5°	738.3	731.7	730.0	726.0
20°	697.9	693.0	691.3	689.1
22.5°	659.6	658.7	653.4	652.1
25°	631.4	627.0	623.5	621.3
27.5°	600.6	597.5	595.8	592.3
30°	572.5	571.6	569.4	569.4
32.5°	546.9	544.3	544.3	543.9
35°	523.6	524.5	521.9	521.0
37.5°	501.6	500.3	500.7	499.9
40°	480.1	479.2	479.2	479.6
42.5°	458.1	458.5	459.4	459.4
45°	436.1	436.5	437.4	437.4
47.5°	415.4	414.5	415.4	414.5
50°	389.0	391.6	391.2	390.7
52.5°	362.1	361.3	363.0	362.6
55°	333.1	331.8	333.5	331.8
57.5°	300.5	301.0	301.0	300.1
60°	268.0	266.6	264.9	264.9
62.5°	230.1	226.2	223.5	225.3
65°	193.6	190.5	189.6	188.3
67.5°	164.6	161.0	159.7	159.3
70°	139.5	137.7	137.3	137.3
72.5°	118.4	118.4	117.0	116.2
75°	96.4	94.6	92.4	92.4
77.5°	72.2	71.7	71.3	71.3
80°	56.3	56.3	56.8	57.2
82.5°	42.2	42.7	43.1	43.1
85°	28.6	28.6	29.0	29.0
87.5°	15.4	15.4	15.4	15.0
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P243598  
 CATALOG NUMBER: S124RDRP-H795D830-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	17.36	18.89	17.72	19.20	19.52	19.05	20.59	19.42	20.90	21.21
	3H	18.59	19.97	18.97	20.29	20.66	20.53	21.91	20.91	22.24	22.60
	4H	19.02	20.31	19.42	20.66	21.04	21.08	22.37	21.48	22.72	23.09
	6H	19.30	20.49	19.71	20.86	21.25	21.46	22.66	21.88	23.02	23.42
	8H	19.39	20.52	19.81	20.91	21.31	21.58	22.72	22.01	23.11	23.51
	12H	19.44	20.53	19.87	20.91	21.34	21.66	22.75	22.09	23.13	23.56
4H	2H	18.56	19.86	18.96	20.20	20.58	19.58	20.87	19.98	21.22	21.60
	3H	19.83	20.91	20.24	21.31	21.71	21.36	22.43	21.77	22.83	23.23
	4H	20.30	21.27	20.74	21.68	22.12	22.01	22.98	22.45	23.39	23.83
	6H	20.64	21.48	21.09	21.92	22.38	22.51	23.35	22.97	23.79	24.25
	8H	20.74	21.52	21.20	21.97	22.44	22.67	23.45	23.13	23.90	24.36
	12H	20.81	21.52	21.30	21.99	22.47	22.78	23.48	23.26	23.96	24.43
8H	4H	20.71	21.50	21.18	21.94	22.41	22.14	22.93	22.60	23.37	23.84
	6H	21.11	21.76	21.61	22.25	22.73	22.74	23.39	23.24	23.88	24.36
	8H	21.26	21.84	21.77	22.35	22.84	22.96	23.54	23.47	24.05	24.54
	12H	21.38	21.90	21.89	22.39	22.95	23.14	23.65	23.65	24.14	24.71
12H	4H	20.76	21.46	21.24	21.94	22.41	22.13	22.83	22.61	23.31	23.78
	6H	21.17	21.75	21.68	22.26	22.75	22.73	23.32	23.25	23.83	24.31
	8H	21.36	21.88	21.87	22.37	22.93	22.99	23.51	23.50	24.00	24.56