

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: P243608

Luminaire Tested: S124RDRP-H795D840-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P243608  
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-H795D840-X4F0-XX-UDD-A-W  
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: (184) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

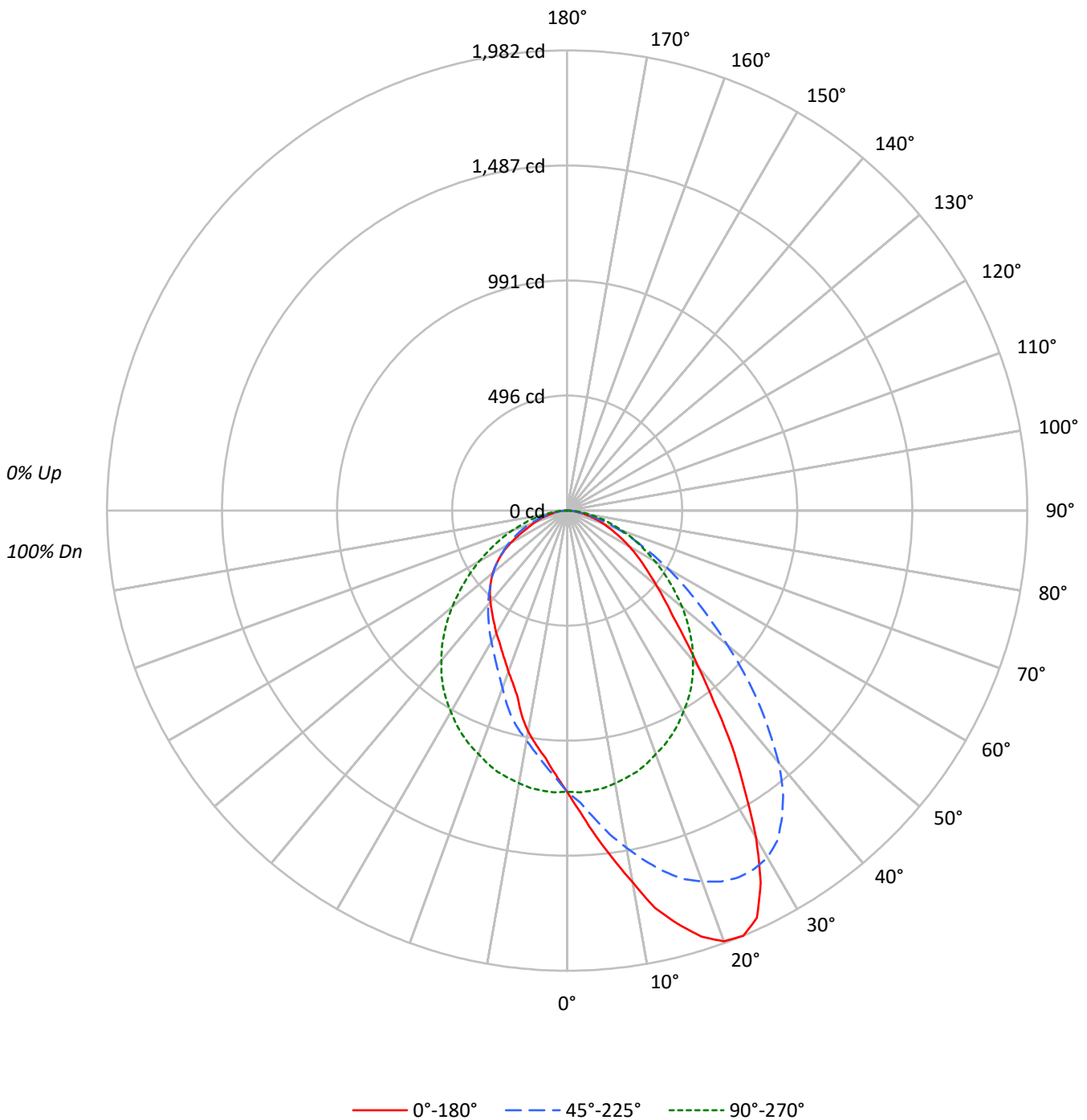
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3124.6 lumens  
Efficiency: N/A  
Efficacy: 132.4 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				
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°	10762	10762	10762	10762	10762
5°	12536	11858	10806	9810	9540
10°	14681	13315	10762	9077	8724
15°	16964	14803	10707	8482	7619
20°	18677	16077	10556	7702	6984
25°	18976	17104	10459	7107	6529
30°	16704	17711	10273	6687	6262
35°	13404	17512	10098	6389	6057
40°	10197	16449	9776	6133	5963
45°	8096	14615	9417	5921	5891
50°	6950	12458	8951	5731	5789
55°	6137	10580	8373	5531	5509
60°	5499	8942	7769	5280	5045
65°	4840	7357	7179	4918	4244
70°	4312	6066	6518	4509	3823
75°	3757	4760	5924	3967	3400
80°	3184	3645	5093	3353	3138
85°	2784	2978	4375	3274	3172

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 55°  
 Vertical Angle: 45°  
 Luminance: 15729 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.5	3.8
10°-20°	356.3	11.4
20°-30°	556.0	17.8
30°-40°	620.0	19.8
40°-50°	557.3	17.8
50°-60°	440.4	14.1
60°-70°	292.5	9.4
70°-80°	146.6	4.7
80°-90°	38.2	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°	1029.7	33.0
0°-40°	1649.7	52.8
0°-60°	2647.3	84.7
0°-90°	3124.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3124.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1211	1211	1211	1211	1211	
5°	1405	1329	1211	1099	1069	141
15°	1843	1609	1164	922	828	524
25°	1935	1744	1066	725	666	866
35°	1235	1614	931	589	558	767
45°	644	1163	749	471	469	510
55°	396	683	540	357	356	357
65°	230	350	341	234	202	230
75°	109	139	172	116	99	117
85°	27	29	43	32	31	31
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°	1210.7	1210.7	1210.7	1210.7	1210.7	1210.7	1210.7	1210.7	1210.7	1210.7	1210.7
2.5°	1300.2	1295.5	1295.1	1288.9	1288.5	1282.3	1280.4	1275.3	1264.9	1256.9	1257.3
5°	1404.9	1401.1	1400.7	1394.5	1392.6	1385.1	1373.3	1359.2	1342.7	1329.0	1320.0
7.5°	1512.4	1519.0	1511.9	1511.9	1498.3	1489.3	1466.2	1454.4	1426.1	1406.3	1385.6
10°	1626.5	1632.6	1629.8	1624.1	1606.2	1587.8	1563.8	1540.7	1506.3	1475.2	1454.4
12.5°	1753.8	1735.4	1747.2	1729.7	1715.1	1685.9	1662.8	1616.6	1589.2	1544.0	1503.4
15°	1843.4	1836.3	1835.8	1824.0	1808.0	1775.9	1750.9	1702.9	1656.2	1608.6	1562.8
17.5°	1923.5	1924.4	1917.8	1899.0	1878.2	1847.1	1813.2	1770.3	1717.0	1664.2	1610.0
20°	1974.4	1974.9	1970.2	1960.3	1937.6	1909.4	1874.5	1818.4	1758.0	1699.6	1645.3
22.5°	1982.0	1983.4	1982.0	1975.8	1960.3	1937.2	1905.1	1857.5	1796.7	1729.7	1665.1
25°	1934.8	1939.5	1940.0	1948.5	1940.5	1931.5	1907.9	1867.9	1811.8	1743.9	1673.6
27.5°	1805.6	1818.8	1831.1	1846.2	1859.9	1872.1	1874.0	1852.8	1804.7	1741.5	1674.6
30°	1627.4	1643.0	1667.5	1683.5	1726.0	1752.8	1789.1	1797.1	1774.0	1725.5	1660.9
32.5°	1420.0	1436.5	1445.9	1498.7	1559.5	1603.4	1663.7	1699.6	1708.5	1685.4	1632.6
35°	1235.2	1238.0	1245.1	1305.0	1365.3	1431.8	1506.7	1569.0	1611.4	1613.8	1587.8
37.5°	1037.2	1040.5	1068.3	1114.0	1166.4	1239.4	1325.7	1414.3	1492.1	1528.0	1520.4
40°	878.8	877.8	907.5	947.1	998.0	1074.0	1163.1	1259.7	1342.7	1417.6	1435.6
42.5°	750.5	753.8	779.3	802.4	851.4	904.7	999.9	1100.4	1206.9	1288.9	1343.6
45°	644.0	652.5	669.9	691.6	728.4	777.4	855.2	955.1	1064.1	1162.6	1228.1
47.5°	570.4	572.8	581.8	608.6	633.2	672.8	739.2	824.1	920.7	1031.1	1117.3
50°	502.6	508.2	511.5	527.5	551.6	589.3	640.7	703.9	799.6	900.9	1008.9
52.5°	444.1	447.4	453.5	468.1	487.0	513.4	553.9	609.6	689.3	783.1	884.9
55°	396.0	396.5	402.6	413.0	427.6	447.9	486.5	526.6	597.3	682.7	775.1
57.5°	352.6	349.8	355.5	361.6	375.7	393.2	418.2	459.2	514.3	586.9	670.4
60°	309.3	311.6	311.2	318.2	325.8	343.2	364.4	391.3	436.6	503.0	573.7
62.5°	268.7	268.3	273.0	277.2	282.4	296.5	314.0	336.1	371.5	420.5	488.9
65°	230.1	231.0	234.8	238.1	243.7	252.7	265.9	283.8	312.1	349.8	407.3
67.5°	195.2	198.5	200.4	201.3	206.5	213.1	224.4	239.0	258.4	288.5	336.6
70°	165.9	166.9	167.8	171.1	173.5	177.3	185.7	193.8	211.2	233.4	268.3
72.5°	138.6	137.7	140.5	141.4	142.4	146.1	151.3	155.6	166.9	185.7	207.4
75°	109.4	109.8	110.3	111.7	115.5	116.0	118.3	123.0	131.1	138.6	153.2
77.5°	82.0	83.4	83.0	84.4	85.8	87.2	88.2	92.4	98.1	104.2	111.3
80°	62.2	62.2	62.2	63.2	62.2	65.5	65.5	66.9	68.4	71.2	76.4
82.5°	42.4	43.4	43.8	44.3	44.8	44.8	45.3	46.2	48.1	49.0	50.4
85°	27.3	26.4	26.9	26.9	26.9	26.9	27.8	28.8	28.8	29.2	30.6
87.5°	12.3	12.3	12.3	12.3	11.8	12.3	12.7	12.7	13.2	13.2	14.1
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°	1210.7	1210.7	1210.7	1210.7	1210.7	1210.7	1210.7	1210.7	1210.7	1210.7	1210.7
2.5°	1254.5	1253.1	1246.0	1238.5	1231.4	1224.3	1222.0	1214.9	1206.4	1198.9	1190.4
5°	1310.6	1299.3	1283.7	1267.7	1251.2	1236.1	1224.3	1211.1	1196.1	1178.1	1164.0
7.5°	1367.2	1346.4	1321.0	1297.4	1269.1	1246.5	1223.9	1205.0	1183.3	1157.9	1138.5
10°	1422.4	1387.9	1356.8	1319.6	1283.7	1252.6	1223.9	1192.3	1163.5	1136.2	1109.3
12.5°	1466.2	1431.8	1387.0	1341.3	1295.1	1254.5	1215.9	1178.6	1142.8	1109.8	1080.1
15°	1516.2	1466.7	1411.5	1361.1	1297.9	1247.9	1203.6	1163.5	1122.5	1082.4	1049.9
17.5°	1552.9	1494.5	1426.1	1368.1	1307.3	1245.1	1191.8	1141.4	1094.2	1052.3	1018.8
20°	1581.2	1511.9	1443.6	1370.0	1297.4	1233.8	1173.9	1115.9	1068.3	1022.6	987.2
22.5°	1593.5	1520.4	1444.5	1364.8	1287.5	1215.4	1153.2	1093.3	1039.5	992.4	951.4
25°	1598.7	1518.5	1439.8	1349.3	1271.0	1197.5	1128.2	1066.4	1011.3	958.0	917.4
27.5°	1594.4	1508.6	1418.1	1332.8	1244.1	1172.0	1098.5	1035.8	978.2	926.9	881.6
30°	1583.1	1486.0	1395.9	1300.2	1214.9	1139.0	1067.4	1000.9	942.9	890.6	845.8
32.5°	1553.9	1460.5	1358.2	1264.9	1173.0	1098.0	1032.9	967.4	908.5	853.8	810.4
35°	1517.6	1426.1	1319.1	1221.5	1130.5	1054.6	989.1	930.6	872.6	814.7	770.3
37.5°	1471.9	1379.0	1275.7	1170.6	1081.5	1008.0	948.1	889.1	831.6	778.4	728.9
40°	1410.1	1325.2	1221.5	1115.9	1026.3	955.6	896.7	842.5	791.6	739.2	686.0
42.5°	1333.2	1268.7	1161.6	1057.5	969.8	899.5	847.2	798.6	749.6	695.9	647.8
45°	1251.2	1196.1	1098.9	993.8	910.4	842.0	792.0	749.1	702.9	655.3	604.9
47.5°	1158.8	1117.8	1033.9	929.7	842.0	783.5	737.3	698.2	656.3	613.8	564.8
50°	1054.6	1029.6	958.0	863.2	779.8	720.4	682.2	647.3	611.5	569.0	527.1
52.5°	950.4	945.7	878.8	795.3	716.6	661.4	624.2	592.1	562.9	522.8	487.5
55°	841.1	855.2	799.6	722.7	652.5	599.2	566.2	540.3	514.8	480.9	446.9
57.5°	743.9	760.0	721.8	651.1	585.5	540.3	512.0	488.4	466.3	435.1	412.5
60°	636.5	665.7	645.4	580.8	522.8	482.3	455.9	437.0	418.6	391.8	372.0
62.5°	551.6	571.9	560.1	512.0	460.6	427.6	404.0	386.6	372.0	351.2	331.9
65°	460.6	486.1	479.9	448.3	403.1	372.9	355.0	341.3	326.2	309.7	293.7
67.5°	378.6	405.0	403.6	381.9	348.4	323.4	306.4	296.5	284.3	268.3	258.4
70°	304.6	329.1	330.0	319.2	295.6	272.0	259.8	250.8	241.4	229.6	222.5
72.5°	236.7	258.8	262.6	257.4	242.3	226.8	215.9	209.8	201.8	191.9	185.7
75°	176.8	192.8	201.8	199.4	193.3	182.9	176.8	172.5	164.5	157.5	152.3
77.5°	125.9	138.6	147.6	151.3	148.5	144.3	138.6	135.3	126.8	123.5	120.7
80°	84.4	95.7	103.7	106.1	107.5	106.5	101.4	99.5	95.2	93.8	91.0
82.5°	51.9	58.0	63.6	69.8	72.6	72.6	69.8	70.2	66.5	64.6	63.6
85°	31.6	33.0	33.9	38.7	42.4	43.8	42.4	42.9	41.5	40.1	38.7
87.5°	14.6	14.6	15.1	16.0	17.0	19.8	20.7	22.2	20.3	20.3	17.0
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°	1210.7	1210.7	1210.7	1210.7	1210.7	1210.7	1210.7	1210.7	1210.7	1210.7	1210.7
2.5°	1185.2	1179.1	1174.4	1166.8	1160.7	1150.8	1147.5	1147.5	1149.4	1147.0	1149.4
5°	1154.1	1142.8	1130.5	1119.7	1107.9	1099.4	1090.9	1089.0	1088.1	1082.4	1082.9
7.5°	1123.0	1107.9	1092.3	1078.2	1063.6	1050.4	1041.4	1037.7	1034.4	1030.6	1026.3
10°	1089.5	1072.1	1053.7	1037.7	1023.5	1005.6	996.6	993.8	984.4	982.5	975.9
12.5°	1054.2	1036.2	1017.9	997.1	983.4	966.0	952.8	946.7	937.7	931.1	921.2
15°	1026.3	1003.7	979.2	958.9	941.0	921.7	903.8	892.0	880.2	861.8	852.8
17.5°	991.9	966.0	944.8	923.1	897.2	868.9	847.7	830.2	817.5	802.4	793.4
20°	954.7	930.6	904.2	873.6	846.2	814.2	794.9	780.2	770.3	761.4	756.7
22.5°	921.7	893.9	857.6	828.3	790.1	764.7	749.1	739.7	730.3	720.8	716.1
25°	885.8	853.3	809.0	773.2	744.4	724.6	709.5	700.6	690.7	685.0	677.9
27.5°	850.5	808.5	764.2	731.7	709.1	686.0	673.2	666.2	658.6	650.6	644.9
30°	807.6	760.0	723.2	693.5	670.9	651.5	642.1	631.7	625.1	620.4	617.1
32.5°	762.8	717.1	683.6	658.1	636.0	621.4	609.6	603.0	597.3	592.1	588.4
35°	720.8	676.5	648.2	623.7	605.3	588.8	579.9	573.7	569.0	564.8	562.9
37.5°	679.4	641.6	611.0	591.7	572.3	559.1	550.6	545.0	542.2	537.9	538.4
40°	638.3	604.4	579.9	557.7	539.8	528.5	521.9	519.5	515.3	513.9	515.3
42.5°	601.6	570.4	546.9	526.1	510.6	499.7	494.5	491.2	489.8	489.4	489.8
45°	565.7	536.5	513.9	496.9	480.9	471.0	466.7	464.4	463.0	465.3	465.8
47.5°	529.9	503.5	483.2	463.4	450.2	443.2	438.9	437.0	438.4	439.4	442.7
50°	494.5	470.0	448.8	431.4	421.0	414.4	413.0	409.7	412.0	413.5	415.8
52.5°	458.7	436.6	417.7	401.2	390.4	386.1	382.8	381.4	384.7	384.7	387.1
55°	422.4	403.1	385.6	370.6	362.1	356.9	354.5	352.6	354.5	355.0	354.5
57.5°	388.5	370.1	351.7	339.0	331.9	326.2	323.9	322.9	322.5	324.4	323.9
60°	352.6	335.2	320.6	307.4	300.3	297.0	291.8	292.8	292.8	292.8	288.1
62.5°	316.8	299.4	286.6	277.7	269.2	263.5	262.6	261.2	258.4	257.9	251.8
65°	280.0	266.8	256.0	247.0	238.6	233.8	232.4	228.2	224.9	218.8	214.5
67.5°	246.1	236.7	223.9	216.4	209.3	203.7	198.5	195.2	188.6	182.4	178.7
70°	212.2	202.3	193.8	185.7	178.7	173.5	167.4	161.2	157.0	153.2	150.4
72.5°	178.2	169.7	162.6	155.1	147.6	142.4	137.7	132.9	131.1	129.2	127.8
75°	146.6	138.6	132.0	125.9	121.6	115.5	113.1	111.3	109.4	107.0	104.2
77.5°	116.0	109.8	104.7	99.5	95.7	92.4	90.5	84.9	80.1	79.2	78.3
80°	86.3	81.6	78.3	74.5	70.2	65.5	64.1	62.2	61.3	61.3	61.8
82.5°	60.3	57.5	53.7	50.4	49.0	47.1	47.1	46.7	46.2	46.7	46.7
85°	36.8	33.0	32.1	31.6	32.1	32.1	32.1	32.1	31.6	32.1	31.1
87.5°	16.0	17.4	17.9	16.5	17.0	16.0	16.5	16.5	16.5	17.0	16.5
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: P243608

CATALOG NUMBER: S124RDRP-H795D840-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1210.7	1210.7	1210.7	1210.7
2.5°	1146.6	1146.6	1141.8	1138.1
5°	1082.0	1075.8	1074.9	1069.2
7.5°	1021.6	1020.7	1018.3	1018.3
10°	973.5	970.2	966.9	966.5
12.5°	905.6	910.4	904.7	903.3
15°	846.2	842.5	837.8	827.9
17.5°	791.1	784.0	782.1	777.9
20°	747.7	742.5	740.6	738.3
22.5°	706.7	705.8	700.1	698.7
25°	676.5	671.8	668.0	665.7
27.5°	643.5	640.2	638.3	634.6
30°	613.4	612.4	610.1	610.1
32.5°	586.0	583.2	583.2	582.7
35°	561.0	562.0	559.1	558.2
37.5°	537.4	536.0	536.5	535.6
40°	514.3	513.4	513.4	513.9
42.5°	490.8	491.2	492.2	492.2
45°	467.2	467.7	468.6	468.6
47.5°	445.0	444.1	445.0	444.1
50°	416.8	419.6	419.1	418.6
52.5°	388.0	387.1	388.9	388.5
55°	356.9	355.5	357.4	355.5
57.5°	322.0	322.5	322.5	321.5
60°	287.1	285.7	283.8	283.8
62.5°	246.6	242.3	239.5	241.4
65°	207.4	204.1	203.2	201.8
67.5°	176.3	172.5	171.1	170.7
70°	149.4	147.6	147.1	147.1
72.5°	126.8	126.8	125.4	124.5
75°	103.2	101.4	99.0	99.0
77.5°	77.3	76.8	76.4	76.4
80°	60.3	60.3	60.8	61.3
82.5°	45.3	45.7	46.2	46.2
85°	30.6	30.6	31.1	31.1
87.5°	16.5	16.5	16.5	16.0
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243608  
 CATALOG NUMBER: S124RDRP-H795D840-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	17.60	19.13	17.96	19.44	19.76	19.29	20.83	19.66	21.14	21.45
	3H	18.83	20.21	19.21	20.53	20.89	20.77	22.15	21.15	22.48	22.84
	4H	19.26	20.55	19.66	20.90	21.28	21.32	22.61	21.71	22.96	23.33
	6H	19.54	20.73	19.95	21.10	21.49	21.70	22.90	22.12	23.26	23.66
	8H	19.62	20.76	20.05	21.15	21.55	21.82	22.96	22.25	23.35	23.75
	12H	19.68	20.77	20.11	21.15	21.58	21.90	22.99	22.33	23.37	23.80
4H	2H	18.80	20.10	19.20	20.44	20.82	19.82	21.11	20.22	21.46	21.84
	3H	20.07	21.15	20.48	21.54	21.95	21.60	22.67	22.01	23.07	23.47
	4H	20.54	21.51	20.97	21.92	22.36	22.25	23.22	22.69	23.63	24.07
	6H	20.87	21.72	21.33	22.16	22.62	22.75	23.59	23.21	24.03	24.49
	8H	20.98	21.76	21.44	22.21	22.67	22.91	23.69	23.37	24.14	24.60
	12H	21.05	21.76	21.54	22.23	22.70	23.02	23.72	23.50	24.20	24.67
8H	4H	20.95	21.74	21.42	22.18	22.65	22.38	23.17	22.84	23.61	24.08
	6H	21.35	22.00	21.85	22.49	22.97	22.98	23.63	23.47	24.12	24.60
	8H	21.50	22.08	22.01	22.59	23.08	23.20	23.78	23.71	24.29	24.78
	12H	21.62	22.13	22.13	22.63	23.19	23.38	23.89	23.89	24.38	24.95
12H	4H	21.00	21.70	21.48	22.18	22.65	22.37	23.07	22.85	23.55	24.02
	6H	21.41	21.99	21.92	22.50	22.99	22.97	23.56	23.49	24.06	24.55
	8H	21.60	22.11	22.11	22.61	23.17	23.23	23.75	23.74	24.24	24.80