

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: P242738

Luminaire Tested: S124RDRP-S795D830-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P242738  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-31)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDRP-S795D830-X4F0-XX-UDD-A-W  
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER  
STANDARD LIGHT ENGINE  
Light Source: (92) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

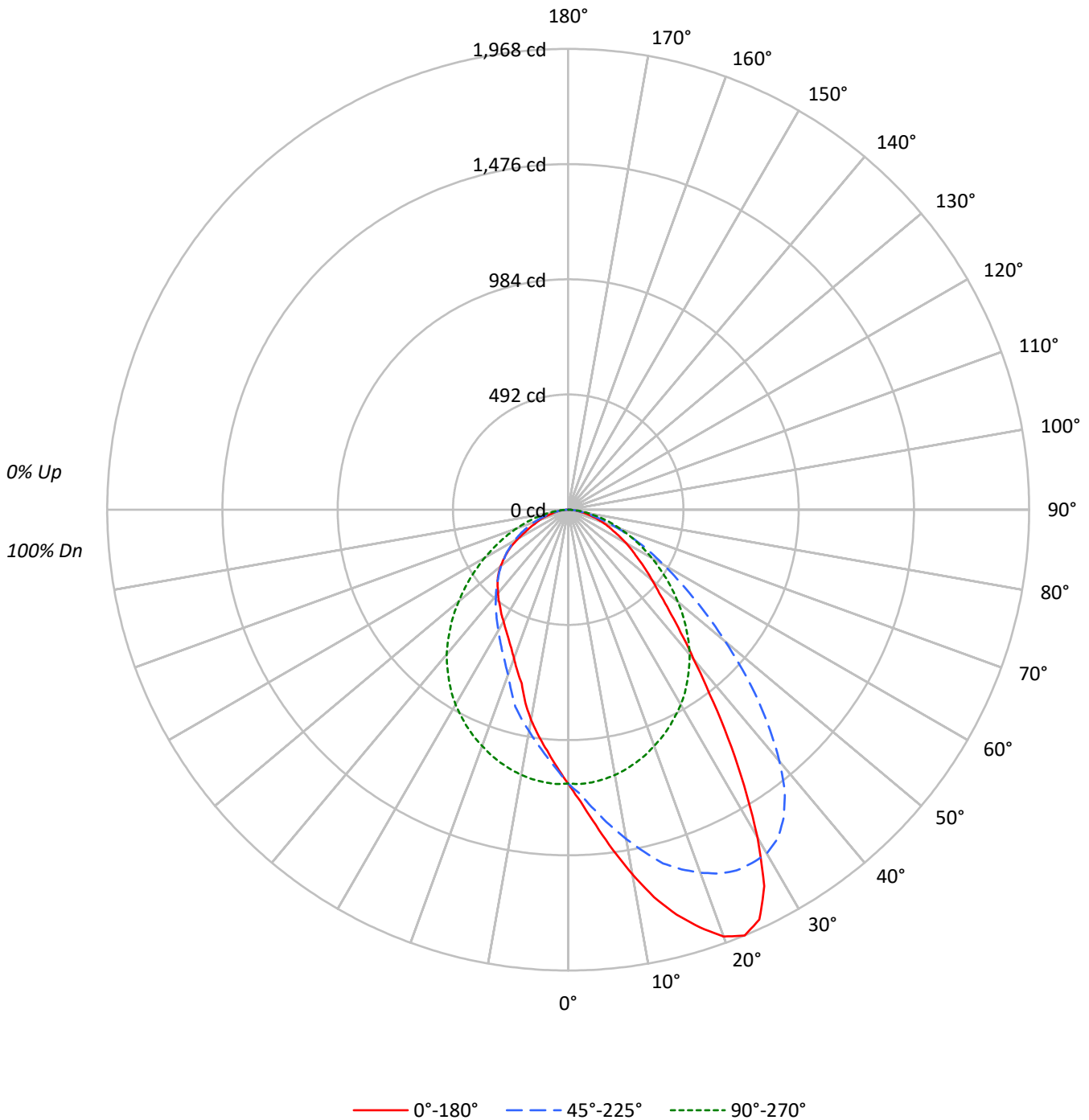
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2956.8 lumens  
Efficiency: N/A  
Efficacy: 112.4 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.22 / 1.39  
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 26.3  
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: P242738

CATALOG NUMBER: S124RDRP-S795D830-X4F0-XX-UDD-A-W

### Luminous Intensity Polar Plot



TEST NUMBER: P242738

CATALOG NUMBER: S124RDRP-S795D830-X4F0-XX-UDD-A-W

**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	92	86	81	88	83	79	85	81	77	82	79	76	74					74			
3	93	83	76	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63					63			
4	85	74	66	60	83	73	65	59	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	56	51	60	55	50	48					48			
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38					38			
8	64	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34					34			
9	59	47	39	33	58	46	38	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28					28			

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

	0°	45°	90°	135°	180°
0°	10397	10397	10397	10397	10397
5°	12060	11480	10429	9436	9217
10°	14267	12889	10384	8673	8226
15°	16480	14390	10287	8014	7069
20°	18349	15603	10156	7088	6393
25°	18942	16677	10026	6531	5935
30°	16582	17394	9868	6119	5660
35°	12908	17402	9635	5810	5492
40°	9680	16280	9368	5562	5403
45°	7642	14366	8940	5350	5355
50°	6452	12089	8447	5168	5201
55°	5624	10021	7902	4973	4922
60°	5060	8386	7339	4692	4357
65°	4461	6987	6731	4371	3746
70°	4018	5585	6100	3943	3381
75°	3366	4338	5406	3465	2881
80°	2846	3281	4607	2872	2703
85°	2407	2591	3600	2550	2407

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 55°  
 Vertical Angle: 45°  
 Luminance: 15344 cd/sqm



TEST NUMBER: P242738

CATALOG NUMBER: S124RDRP-S795D830-X4F0-XX-UDD-A-W

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.3	3.8
10°-20°	342.0	11.6
20°-30°	535.8	18.1
30°-40°	595.0	20.1
40°-50°	527.2	17.8
50°-60°	410.9	13.9
60°-70°	268.8	9.1
70°-80°	131.9	4.5
80°-90°	32.1	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°	991.1	33.5
0°-40°	1586.0	53.6
0°-60°	2524.1	85.4
0°-90°	2956.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2956.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1170	1170	1170	1170	1170	
5°	1352	1287	1169	1058	1033	136
15°	1791	1564	1118	871	768	509
25°	1931	1700	1022	666	605	862
35°	1190	1604	888	535	506	744
45°	608	1143	711	426	426	479
55°	363	647	510	321	318	330
65°	212	332	320	208	178	213
75°	98	126	157	101	84	108
85°	24	25	35	25	24	27
90°	0	0	0	0	0	



TEST NUMBER: P242738

CATALOG NUMBER: S124RDRP-S795D830-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1169.7	1169.7	1169.7	1169.7	1169.7	1169.7	1169.7	1169.7	1169.7	1169.7	1169.7
2.5°	1249.8	1254.1	1249.8	1249.3	1244.6	1243.2	1241.3	1235.2	1223.9	1217.3	1218.7
5°	1351.6	1363.4	1356.8	1355.9	1345.5	1335.1	1328.5	1313.4	1297.4	1286.6	1277.6
7.5°	1464.7	1471.8	1467.1	1461.9	1444.0	1438.3	1422.8	1404.9	1378.0	1357.7	1339.4
10°	1580.6	1586.3	1584.4	1572.2	1559.9	1534.9	1520.8	1493.0	1456.7	1428.0	1401.1
12.5°	1694.7	1700.8	1680.6	1684.3	1658.4	1640.0	1615.5	1578.8	1535.4	1496.3	1460.9
15°	1790.8	1783.3	1783.3	1773.9	1748.0	1720.6	1697.5	1660.8	1608.0	1563.7	1517.0
17.5°	1870.0	1873.3	1869.5	1845.5	1826.7	1798.8	1757.4	1715.4	1669.7	1610.3	1564.2
20°	1939.8	1939.8	1935.5	1920.4	1894.0	1863.9	1818.2	1771.5	1709.3	1649.5	1595.7
22.5°	1968.0	1969.9	1964.7	1953.0	1929.9	1900.6	1863.4	1815.8	1751.2	1682.0	1612.2
25°	1931.3	1940.2	1941.2	1937.9	1930.8	1912.9	1879.4	1830.9	1773.4	1700.4	1628.7
27.5°	1812.5	1824.3	1829.0	1839.4	1858.7	1865.8	1861.5	1829.0	1773.4	1701.3	1630.1
30°	1615.5	1624.9	1655.6	1695.6	1726.7	1755.0	1779.5	1786.1	1757.8	1694.7	1618.8
32.5°	1396.9	1410.5	1441.2	1485.0	1542.0	1594.8	1657.5	1690.9	1697.1	1665.5	1596.7
35°	1189.5	1198.9	1227.2	1272.4	1334.6	1405.8	1493.0	1560.9	1607.0	1603.7	1560.9
37.5°	990.6	1003.8	1032.6	1069.8	1131.1	1222.0	1304.5	1395.4	1478.4	1518.9	1497.2
40°	834.2	834.6	862.4	901.1	957.6	1034.4	1126.3	1230.0	1325.2	1403.0	1418.1
42.5°	710.7	710.7	726.7	769.1	805.9	877.0	963.8	1066.5	1182.0	1274.8	1321.0
45°	607.9	612.2	627.3	652.2	684.3	745.6	815.8	911.4	1036.3	1142.8	1209.3
47.5°	526.9	534.4	543.4	566.0	592.4	635.3	695.1	784.7	888.3	1006.6	1098.5
50°	466.6	467.5	479.8	491.1	513.2	545.7	596.6	668.3	761.6	874.2	979.3
52.5°	414.7	414.2	420.4	435.5	452.4	476.0	514.6	578.3	658.4	756.4	865.7
55°	362.9	365.2	370.9	382.2	395.9	413.8	446.3	495.3	560.3	646.6	745.1
57.5°	323.3	324.7	329.9	334.1	347.3	360.5	386.9	422.3	479.3	551.4	648.0
60°	284.6	285.1	286.5	293.6	303.5	315.8	332.2	361.0	407.2	471.7	544.3
62.5°	246.9	247.9	250.2	255.0	262.0	269.6	287.0	308.7	345.0	397.8	461.4
65°	212.1	212.5	215.8	217.7	223.9	231.4	244.1	259.7	286.1	332.2	381.7
67.5°	182.9	182.9	182.9	185.7	190.4	195.6	204.1	217.3	238.5	268.2	314.3
70°	154.6	154.6	155.5	156.9	159.3	163.5	167.8	177.2	191.8	214.9	248.4
72.5°	128.2	128.7	129.6	129.6	130.5	133.8	136.7	141.9	151.7	167.8	193.2
75°	98.0	99.4	101.8	103.7	106.0	105.6	108.9	112.6	115.9	126.3	141.9
77.5°	77.3	76.3	76.3	78.2	78.7	79.2	81.5	84.8	87.7	93.3	99.0
80°	55.6	55.6	57.0	57.5	57.0	57.5	59.9	61.3	62.2	64.1	69.3
82.5°	38.6	39.6	38.6	39.1	39.6	40.1	41.9	41.9	42.9	43.4	44.8
85°	23.6	24.0	24.5	23.6	23.6	23.6	24.5	25.0	25.9	25.4	26.4
87.5°	10.4	9.9	10.4	10.4	10.8	10.4	10.8	11.8	10.8	11.3	11.3
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: P242738

CATALOG NUMBER: S124RDRP-S795D830-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1169.7	1169.7	1169.7	1169.7	1169.7	1169.7	1169.7	1169.7	1169.7	1169.7	1169.7
2.5°	1214.0	1207.4	1204.1	1196.6	1187.6	1182.9	1178.7	1172.5	1164.5	1156.0	1149.9
5°	1266.3	1255.0	1240.9	1223.9	1208.8	1194.2	1181.5	1168.8	1154.1	1139.1	1124.0
7.5°	1318.2	1297.9	1276.2	1250.3	1225.3	1202.2	1181.5	1161.2	1138.1	1117.4	1098.1
10°	1372.8	1342.7	1309.2	1273.9	1238.5	1207.9	1177.7	1150.4	1120.2	1093.4	1070.7
12.5°	1417.1	1380.4	1338.4	1292.2	1247.9	1209.3	1173.5	1135.8	1100.4	1070.7	1038.7
15°	1467.1	1418.5	1364.3	1311.6	1256.4	1206.0	1159.3	1117.9	1078.7	1037.7	1009.0
17.5°	1501.5	1445.4	1381.3	1320.0	1256.9	1198.4	1145.7	1097.6	1052.8	1011.8	977.9
20°	1531.6	1468.0	1395.0	1322.9	1249.8	1186.2	1128.2	1073.6	1026.9	981.7	946.3
22.5°	1548.6	1476.5	1395.0	1318.6	1242.3	1172.1	1107.0	1049.5	997.7	952.4	912.4
25°	1549.5	1474.1	1392.6	1305.9	1223.0	1149.9	1083.9	1022.2	965.6	920.4	878.9
27.5°	1545.8	1458.6	1376.6	1288.5	1203.2	1125.4	1057.1	991.6	935.5	887.4	845.0
30°	1534.5	1439.3	1349.7	1257.4	1170.6	1096.7	1023.6	961.4	902.5	852.1	809.2
32.5°	1510.0	1415.7	1317.7	1222.5	1134.4	1057.5	989.2	926.5	869.0	817.2	771.0
35°	1476.0	1380.4	1275.7	1178.7	1092.4	1013.2	948.2	887.9	832.7	777.6	729.5
37.5°	1436.9	1337.0	1233.8	1127.3	1041.5	966.1	905.3	847.3	793.6	743.2	689.9
40°	1376.6	1287.5	1180.1	1074.5	985.9	913.8	858.7	807.3	753.1	703.1	649.9
42.5°	1303.5	1231.0	1122.1	1016.1	928.9	860.1	809.6	759.7	711.6	663.6	607.5
45°	1220.6	1163.1	1061.3	959.5	871.4	802.6	755.5	711.2	667.8	621.6	569.3
47.5°	1128.2	1085.8	997.2	890.7	808.2	745.1	699.8	663.1	624.9	578.3	531.1
50°	1031.1	1006.2	921.3	826.1	748.4	691.4	644.7	610.8	580.1	535.8	494.8
52.5°	927.5	917.1	848.8	758.7	684.3	628.7	590.5	560.8	529.7	494.8	457.1
55°	821.9	829.0	768.2	689.5	618.8	571.7	535.4	509.9	483.5	452.4	422.7
57.5°	712.1	739.0	693.7	622.6	554.2	509.9	482.1	459.5	437.3	410.9	384.1
60°	615.5	637.2	614.1	553.3	495.3	454.8	429.3	412.8	390.7	367.1	347.8
62.5°	521.2	544.8	533.5	487.3	434.5	401.1	379.4	364.3	349.2	329.4	309.2
65°	445.4	460.4	453.8	419.9	381.7	352.0	331.3	320.0	304.9	289.8	271.9
67.5°	356.3	386.0	381.3	362.4	325.6	302.1	287.5	277.1	263.0	251.7	238.9
70°	280.4	307.3	306.8	292.2	274.3	252.6	243.2	234.7	222.4	211.6	201.7
72.5°	216.8	240.8	245.5	235.2	224.3	209.2	200.3	195.1	183.3	176.7	169.2
75°	160.7	178.6	183.3	183.3	177.7	169.2	161.2	157.4	148.9	142.3	137.6
77.5°	113.1	125.4	132.4	133.8	134.3	131.0	123.5	120.6	114.0	111.7	106.5
80°	74.5	82.0	90.5	93.3	95.7	94.7	91.9	90.0	83.9	81.5	79.6
82.5°	45.7	49.0	55.6	62.7	61.3	64.6	62.2	60.8	56.6	56.1	54.2
85°	26.9	27.3	28.3	32.5	34.9	35.8	36.3	35.3	33.9	33.9	30.6
87.5°	11.3	10.8	11.8	11.8	12.3	14.1	15.6	16.0	14.6	13.2	11.8
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: P242738

CATALOG NUMBER: S124RDRP-S795D830-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1169.7	1169.7	1169.7	1169.7	1169.7	1169.7	1169.7	1169.7	1169.7	1169.7	1169.7
2.5°	1143.3	1138.6	1132.5	1125.4	1116.9	1109.4	1106.1	1108.9	1110.3	1106.5	1106.1
5°	1113.6	1101.8	1092.4	1078.3	1067.0	1057.5	1050.9	1048.1	1049.1	1041.5	1039.6
7.5°	1080.6	1067.9	1052.4	1036.3	1021.2	1008.1	1001.0	997.7	989.7	986.4	981.2
10°	1049.1	1030.2	1015.1	995.3	977.4	960.9	952.9	946.3	938.3	934.5	926.5
12.5°	1016.5	993.9	976.9	956.2	937.8	917.1	909.6	895.9	882.2	873.3	862.4
15°	986.4	960.0	939.7	915.2	893.5	870.9	850.6	828.0	819.5	801.6	791.3
17.5°	950.6	923.2	900.6	869.0	836.5	809.2	786.6	763.0	750.3	738.0	732.8
20°	915.2	890.7	855.8	817.7	780.4	749.3	731.9	717.7	703.6	695.6	689.9
22.5°	881.8	848.8	806.8	764.9	727.6	705.0	690.9	676.3	665.4	657.9	649.9
25°	843.6	802.6	759.7	712.6	687.1	665.9	649.9	638.1	631.0	621.1	617.4
27.5°	806.3	756.9	708.3	676.3	649.9	629.6	615.0	606.5	597.1	590.5	585.3
30°	762.0	711.6	669.2	639.0	612.2	596.2	584.8	574.5	567.4	562.2	558.5
32.5°	718.2	667.8	633.9	600.9	581.1	565.5	553.3	546.2	541.0	534.0	532.1
35°	676.3	631.5	600.4	571.2	549.5	535.4	525.9	517.9	513.2	511.3	509.9
37.5°	635.3	598.0	563.6	540.1	519.8	509.0	496.7	493.0	489.7	485.4	487.3
40°	596.6	562.2	532.5	507.1	491.5	479.3	472.7	468.0	465.1	465.1	465.1
42.5°	563.2	529.7	501.0	478.8	463.3	453.4	445.8	442.1	441.6	441.1	443.9
45°	528.3	497.2	468.0	449.1	435.9	425.6	421.3	418.0	418.0	419.9	420.4
47.5°	493.4	464.2	440.6	419.0	406.7	400.1	396.3	394.5	394.5	396.8	398.7
50°	461.8	433.1	410.0	391.2	379.8	373.7	370.4	369.5	370.4	370.4	373.7
52.5°	427.4	402.5	379.8	364.8	351.6	345.9	344.5	343.1	343.6	345.4	346.4
55°	394.0	370.9	349.2	334.1	324.7	320.9	316.7	317.2	316.2	317.2	317.2
57.5°	360.1	339.8	318.6	306.3	298.3	292.7	287.9	289.4	287.9	287.9	287.5
60°	327.5	304.9	288.9	278.1	268.6	263.9	259.7	260.6	259.2	258.3	256.4
62.5°	292.2	274.3	259.2	248.8	241.8	236.1	231.9	230.5	226.7	222.9	218.2
65°	258.3	242.7	229.0	219.1	212.1	207.8	204.5	201.7	194.6	187.1	183.3
67.5°	224.8	213.5	200.3	191.8	186.2	180.5	174.4	169.2	162.1	157.4	155.0
70°	192.8	181.9	171.1	163.1	156.9	151.7	144.7	141.4	136.7	134.8	132.4
72.5°	162.1	152.2	142.3	135.3	128.7	124.9	119.7	116.4	115.0	114.5	112.2
75°	131.0	123.0	115.5	108.9	103.7	100.9	98.5	96.1	95.2	91.0	88.6
77.5°	100.9	95.2	90.5	85.3	82.0	80.1	74.9	71.6	69.7	67.4	66.9
80°	74.5	70.7	66.0	63.2	58.0	56.1	54.2	53.7	53.3	52.8	52.3
82.5°	51.4	47.6	42.9	41.5	41.0	40.1	39.1	38.6	38.2	38.6	38.6
85°	28.3	26.4	26.4	25.9	25.4	25.0	24.5	24.5	24.0	24.5	24.0
87.5°	11.8	11.3	11.3	10.4	10.8	10.8	10.4	10.4	10.8	9.9	9.9
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: P242738

CATALOG NUMBER: S124RDRP-S795D830-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1169.7	1169.7	1169.7	1169.7
2.5°	1103.2	1104.2	1100.9	1100.0
5°	1035.9	1034.9	1032.6	1033.0
7.5°	977.4	974.1	976.5	972.7
10°	924.6	919.5	915.2	911.4
12.5°	852.5	848.3	842.2	844.5
15°	785.1	778.1	766.8	768.2
17.5°	724.8	725.8	719.2	721.0
20°	680.0	676.7	677.2	675.8
22.5°	648.9	644.7	640.5	637.2
25°	613.1	610.3	606.1	605.1
27.5°	581.6	581.1	579.2	576.8
30°	554.7	553.7	552.8	551.4
32.5°	530.7	530.2	529.2	529.7
35°	508.0	507.6	506.6	506.1
37.5°	486.8	488.2	487.3	487.3
40°	464.7	465.1	466.1	465.6
42.5°	446.3	446.3	447.7	445.8
45°	423.7	426.5	426.0	426.0
47.5°	399.6	402.9	403.4	403.4
50°	376.1	375.1	376.5	376.1
52.5°	347.3	347.8	347.3	346.9
55°	317.6	318.1	317.2	317.6
57.5°	286.1	284.2	285.6	284.6
60°	251.7	247.9	246.9	245.1
62.5°	213.0	210.7	206.9	209.2
65°	179.6	177.7	176.3	178.1
67.5°	152.7	151.7	151.7	150.8
70°	132.4	131.0	131.0	130.1
72.5°	111.7	110.3	110.7	110.3
75°	85.8	83.4	83.4	83.9
77.5°	66.9	66.4	67.4	66.0
80°	52.3	51.8	51.4	52.8
82.5°	37.7	37.7	37.7	39.6
85°	24.5	23.6	24.5	23.6
87.5°	10.8	10.4	9.9	10.4
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242738  
 CATALOG NUMBER: S124RDRP-S795D830-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	17.24	18.76	17.60	19.07	19.39	19.06	20.58	19.42	20.89	21.21
	3H	18.46	19.83	18.84	20.16	20.52	20.51	21.87	20.89	22.20	22.56
	4H	18.90	20.18	19.30	20.53	20.90	21.02	22.31	21.42	22.65	23.03
	6H	19.17	20.35	19.58	20.72	21.11	21.38	22.56	21.79	22.93	23.32
	8H	19.25	20.38	19.68	20.76	21.17	21.48	22.61	21.91	22.99	23.40
	12H	19.30	20.38	19.73	20.76	21.19	21.54	22.62	21.97	23.00	23.43
4H	2H	18.50	19.78	18.90	20.13	20.50	19.56	20.84	19.96	21.19	21.57
	3H	19.73	20.79	20.14	21.19	21.60	21.30	22.37	21.71	22.77	23.17
	4H	20.20	21.15	20.63	21.57	22.01	21.93	22.89	22.36	23.30	23.74
	6H	20.52	21.35	20.98	21.79	22.25	22.39	23.22	22.84	23.66	24.12
	8H	20.61	21.39	21.08	21.83	22.30	22.52	23.30	22.99	23.74	24.21
	12H	20.68	21.38	21.17	21.85	22.33	22.61	23.31	23.10	23.78	24.26
8H	4H	20.60	21.37	21.06	21.82	22.29	22.04	22.82	22.51	23.26	23.73
	6H	20.99	21.63	21.48	22.12	22.59	22.59	23.23	23.08	23.72	24.19
	8H	21.12	21.70	21.63	22.21	22.69	22.78	23.35	23.29	23.86	24.35
	12H	21.23	21.74	21.74	22.23	22.80	22.92	23.43	23.43	23.92	24.49
12H	4H	20.63	21.33	21.12	21.81	22.28	22.03	22.72	22.51	23.20	23.67
	6H	21.03	21.61	21.55	22.12	22.61	22.57	23.15	23.09	23.66	24.15
	8H	21.21	21.72	21.72	22.21	22.78	22.80	23.31	23.31	23.80	24.37