

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: P243594

Luminaire Tested: S124RDRP-H1020D927-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P243594  
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-H1020D927-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: -

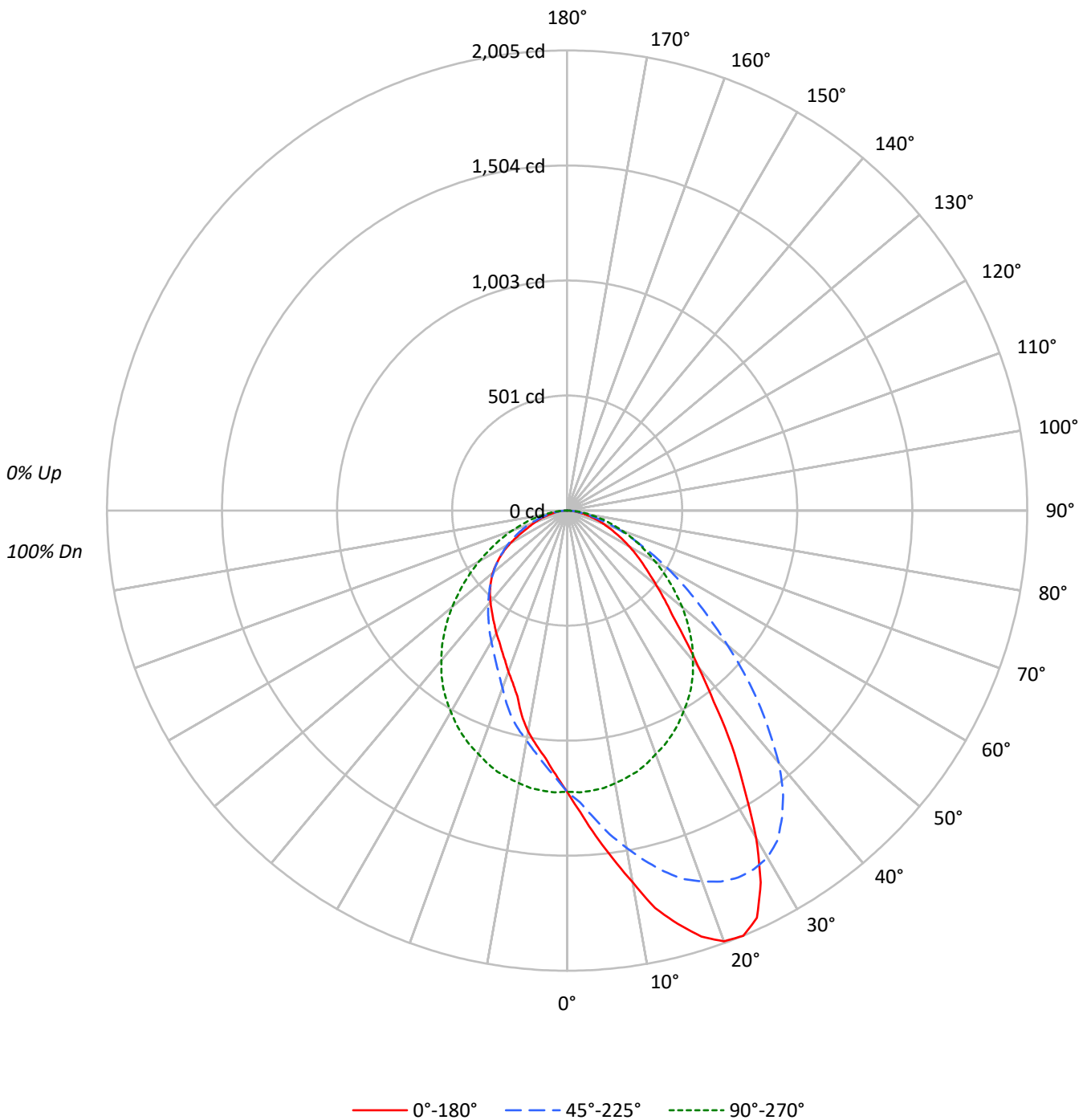
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3161.0 lumens  
Efficiency: N/A  
Efficacy: 100.3 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): 31.5  
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

TEST NUMBER: P243594

CATALOG NUMBER: S124RDRP-H1020D927-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	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°	10887	10887	10887	10887	10887
5°	12682	11997	10932	9924	9652
10°	14851	13470	10887	9182	8825
15°	17161	14975	10832	8580	7707
20°	18894	16264	10679	7792	7065
25°	19197	17303	10581	7189	6605
30°	16899	17917	10392	6765	6335
35°	13560	17715	10217	6464	6128
40°	10316	16641	9890	6203	6033
45°	8190	14785	9526	5990	5960
50°	7031	12603	9055	5797	5856
55°	6208	10702	8471	5595	5573
60°	5563	9047	7860	5342	5104
65°	4894	7444	7263	4976	4293
70°	4364	6136	6594	4561	3867
75°	3798	4815	5996	4011	3441
80°	3225	3686	5150	3394	3174
85°	2825	3019	4426	3304	3213

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 55°  
 Vertical Angle: 45°  
 Luminance: 15912 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.8	3.8
10°-20°	360.4	11.4
20°-30°	562.4	17.8
30°-40°	627.2	19.8
40°-50°	563.8	17.8
50°-60°	445.5	14.1
60°-70°	295.9	9.4
70°-80°	148.3	4.7
80°-90°	38.6	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°	1041.7	33.0
0°-40°	1668.9	52.8
0°-60°	2678.2	84.7
0°-90°	3161.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3161.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1225	1225	1225	1225	1225	
5°	1421	1344	1225	1112	1082	142
15°	1865	1627	1177	932	838	530
25°	1957	1764	1079	733	673	876
35°	1250	1632	942	596	565	776
45°	652	1176	758	476	474	516
55°	401	691	547	361	360	361
65°	233	354	345	237	204	233
75°	111	140	175	117	100	118
85°	28	30	43	32	32	31
90°	0	0	0	0	0	



TEST NUMBER: P243594

CATALOG NUMBER: S124RDRP-H1020D927-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8
2.5°	1315.4	1310.6	1310.1	1303.9	1303.5	1297.3	1295.3	1290.1	1279.6	1271.5	1272.0
5°	1421.3	1417.4	1417.0	1410.8	1408.9	1401.2	1389.3	1375.0	1358.3	1344.5	1335.4
7.5°	1530.0	1536.7	1529.5	1529.5	1515.7	1506.6	1483.3	1471.3	1442.7	1422.7	1401.7
10°	1645.4	1651.6	1648.8	1643.0	1624.9	1606.3	1582.0	1558.6	1523.8	1492.3	1471.3
12.5°	1774.2	1755.6	1767.5	1749.9	1735.1	1705.5	1682.1	1635.4	1607.7	1562.0	1520.9
15°	1864.8	1857.7	1857.2	1845.3	1829.0	1796.6	1771.3	1722.7	1675.5	1627.3	1581.0
17.5°	1945.9	1946.8	1940.2	1921.1	1900.1	1868.6	1834.3	1790.9	1737.0	1683.6	1628.7
20°	1997.4	1997.9	1993.1	1983.1	1960.2	1931.6	1896.3	1839.5	1778.5	1719.3	1664.5
22.5°	2005.0	2006.5	2005.0	1998.8	1983.1	1959.7	1927.3	1879.1	1817.6	1749.9	1684.5
25°	1957.3	1962.1	1962.6	1971.2	1963.1	1954.0	1930.1	1889.6	1832.9	1764.2	1693.1
27.5°	1826.7	1840.0	1852.4	1867.7	1881.5	1893.9	1895.8	1874.3	1825.7	1761.8	1694.1
30°	1646.4	1662.1	1686.9	1703.1	1746.1	1773.2	1810.0	1818.1	1794.7	1745.6	1680.2
32.5°	1436.5	1453.2	1462.8	1516.2	1577.7	1622.0	1683.1	1719.3	1728.4	1705.0	1651.6
35°	1249.6	1252.4	1259.6	1320.2	1381.2	1448.4	1524.3	1587.2	1630.2	1632.5	1606.3
37.5°	1049.3	1052.6	1080.7	1127.0	1179.9	1253.9	1341.1	1430.8	1509.5	1545.7	1538.1
40°	889.0	888.0	918.1	958.2	1009.7	1086.5	1176.6	1274.4	1358.3	1434.1	1452.3
42.5°	759.3	762.6	788.4	811.7	861.3	915.2	1011.6	1113.2	1220.9	1303.9	1359.3
45°	651.5	660.1	677.7	699.7	736.9	786.5	865.2	966.3	1076.4	1176.1	1242.4
47.5°	577.1	579.5	588.5	615.7	640.5	680.6	747.8	833.7	931.4	1043.1	1130.3
50°	508.4	514.1	517.5	533.7	558.0	596.2	648.2	712.1	808.9	911.4	1020.6
52.5°	449.3	452.6	458.8	473.6	492.7	519.4	560.4	616.7	697.3	792.2	895.2
55°	400.6	401.1	407.3	417.8	432.6	453.1	492.2	532.7	604.3	690.6	784.1
57.5°	356.7	353.9	359.6	365.8	380.1	397.8	423.0	464.5	520.3	593.8	678.2
60°	312.9	315.3	314.8	321.9	329.6	347.2	368.7	395.9	441.6	508.9	580.4
62.5°	271.9	271.4	276.1	280.4	285.7	300.0	317.6	340.1	375.8	425.4	494.6
65°	232.7	233.7	237.5	240.9	246.6	255.6	269.0	287.1	315.7	353.9	412.1
67.5°	197.5	200.8	202.7	203.7	208.9	215.6	227.0	241.8	261.4	291.9	340.5
70°	167.9	168.8	169.8	173.1	175.5	179.3	187.9	196.0	213.7	236.1	271.4
72.5°	140.2	139.3	142.1	143.1	144.0	147.8	153.1	157.4	168.8	187.9	209.9
75°	110.6	111.1	111.6	113.0	116.8	117.3	119.7	124.5	132.6	140.2	155.0
77.5°	83.0	84.4	83.9	85.4	86.8	88.2	89.2	93.5	99.2	105.4	112.6
80°	63.0	63.0	63.0	63.9	63.0	66.3	66.3	67.7	69.2	72.0	77.3
82.5°	42.9	43.9	44.4	44.8	45.3	45.3	45.8	46.7	48.6	49.6	51.0
85°	27.7	26.7	27.2	27.2	27.2	27.2	28.1	29.1	29.1	29.6	31.0
87.5°	12.4	12.4	12.4	12.4	11.9	12.4	12.9	12.9	13.4	13.4	14.3
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: P243594

CATALOG NUMBER: S124RDRP-H1020D927-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8
2.5°	1269.1	1267.7	1260.5	1252.9	1245.7	1238.6	1236.2	1229.1	1220.5	1212.8	1204.3
5°	1325.9	1314.4	1298.7	1282.5	1265.8	1250.5	1238.6	1225.2	1210.0	1191.9	1177.5
7.5°	1383.1	1362.1	1336.4	1312.5	1283.9	1261.0	1238.1	1219.0	1197.1	1171.3	1151.8
10°	1438.9	1404.1	1372.6	1334.9	1298.7	1267.2	1238.1	1206.2	1177.1	1149.4	1122.2
12.5°	1483.3	1448.4	1403.1	1356.9	1310.1	1269.1	1230.0	1192.3	1156.1	1122.7	1092.7
15°	1533.8	1483.7	1427.9	1376.9	1313.0	1262.4	1217.6	1177.1	1135.6	1095.0	1062.1
17.5°	1571.0	1511.9	1442.7	1384.1	1322.5	1259.6	1205.7	1154.7	1107.0	1064.5	1030.7
20°	1599.6	1529.5	1460.4	1386.0	1312.5	1248.1	1187.6	1128.9	1080.7	1034.5	998.7
22.5°	1612.0	1538.1	1461.3	1380.7	1302.5	1229.5	1166.6	1106.0	1051.6	1003.9	962.5
25°	1617.3	1536.2	1456.6	1365.0	1285.8	1211.4	1141.3	1078.8	1023.0	969.1	928.1
27.5°	1613.0	1526.2	1434.6	1348.3	1258.6	1185.7	1111.3	1047.8	989.6	937.7	891.9
30°	1601.5	1503.3	1412.2	1315.4	1229.1	1152.3	1079.8	1012.5	953.9	900.9	855.6
32.5°	1572.0	1477.5	1374.0	1279.6	1186.6	1110.8	1045.0	978.7	919.0	863.7	819.8
35°	1535.2	1442.7	1334.5	1235.7	1143.7	1066.9	1000.6	941.5	882.8	824.1	779.3
37.5°	1489.0	1395.0	1290.6	1184.2	1094.1	1019.7	959.1	899.5	841.3	787.4	737.3
40°	1426.5	1340.7	1235.7	1128.9	1038.3	966.7	907.1	852.3	800.8	747.8	693.9
42.5°	1348.8	1283.4	1175.2	1069.8	981.1	910.0	857.0	807.9	758.3	704.0	655.3
45°	1265.8	1210.0	1111.7	1005.4	921.0	851.8	801.2	757.8	711.1	662.9	611.9
47.5°	1172.3	1130.8	1045.9	940.5	851.8	792.7	745.9	706.3	663.9	621.0	571.4
50°	1066.9	1041.6	969.1	873.3	788.8	728.8	690.1	654.8	618.6	575.7	533.2
52.5°	961.5	956.7	889.0	804.6	724.9	669.1	631.5	599.0	569.5	528.9	493.1
55°	850.8	865.2	808.9	731.1	660.1	606.2	572.8	546.6	520.8	486.5	452.1
57.5°	752.6	768.8	730.2	658.6	592.4	546.6	517.9	494.1	471.7	440.2	417.3
60°	643.9	673.4	652.9	587.6	528.9	487.9	461.2	442.1	423.5	396.3	376.3
62.5°	558.0	578.5	566.6	517.9	466.0	432.6	408.7	391.1	376.3	355.3	335.8
65°	466.0	491.7	485.5	453.6	407.8	377.3	359.1	345.3	330.0	313.3	297.1
67.5°	383.0	409.7	408.3	386.3	352.5	327.2	310.0	300.0	287.6	271.4	261.4
70°	308.1	332.9	333.9	322.9	299.0	275.2	262.8	253.7	244.2	232.3	225.1
72.5°	239.4	261.8	265.7	260.4	245.1	229.4	218.4	212.2	204.1	194.1	187.9
75°	178.8	195.1	204.1	201.7	195.5	185.0	178.8	174.6	166.4	159.3	154.0
77.5°	127.3	140.2	149.3	153.1	150.2	145.9	140.2	136.9	128.3	125.0	122.1
80°	85.4	96.8	104.9	107.3	108.7	107.8	102.5	100.6	96.3	94.9	92.0
82.5°	52.5	58.7	64.4	70.6	73.4	73.4	70.6	71.1	67.2	65.3	64.4
85°	32.0	33.4	34.3	39.1	42.9	44.4	42.9	43.4	42.0	40.5	39.1
87.5°	14.8	14.8	15.3	16.2	17.2	20.0	21.0	22.4	20.5	20.5	17.2
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: P243594

CATALOG NUMBER: S124RDRP-H1020D927-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8
2.5°	1199.0	1192.8	1188.0	1180.4	1174.2	1164.2	1160.9	1160.9	1162.8	1160.4	1162.8
5°	1167.5	1156.1	1143.7	1132.7	1120.8	1112.2	1103.6	1101.7	1100.8	1095.0	1095.5
7.5°	1136.1	1120.8	1105.1	1090.7	1076.0	1062.6	1053.5	1049.7	1046.4	1042.6	1038.3
10°	1102.2	1084.5	1065.9	1049.7	1035.4	1017.3	1008.2	1005.4	995.8	993.9	987.3
12.5°	1066.4	1048.3	1029.7	1008.7	994.9	977.2	963.9	957.7	948.6	941.9	931.9
15°	1038.3	1015.4	990.6	970.1	952.0	932.4	914.3	902.4	890.4	871.8	862.8
17.5°	1003.5	977.2	955.8	933.8	907.6	879.0	857.5	839.9	827.0	811.7	802.7
20°	965.8	941.5	914.8	883.8	856.1	823.7	804.1	789.3	779.3	770.2	765.5
22.5°	932.4	904.3	867.5	838.0	799.3	773.6	757.8	748.3	738.8	729.2	724.5
25°	896.2	863.2	818.4	782.2	753.1	733.0	717.8	708.7	698.7	693.0	685.8
27.5°	860.4	817.9	773.1	740.2	717.3	693.9	681.1	673.9	666.3	658.2	652.4
30°	817.0	768.8	731.6	701.6	678.7	659.1	649.6	639.1	632.4	627.6	624.3
32.5°	771.7	725.4	691.6	665.8	643.4	628.6	616.7	610.0	604.3	599.0	595.2
35°	729.2	684.4	655.8	631.0	612.4	595.7	586.6	580.4	575.7	571.4	569.5
37.5°	687.3	649.1	618.1	598.6	579.0	565.6	557.1	551.3	548.5	544.2	544.7
40°	645.8	611.4	586.6	564.2	546.1	534.6	528.0	525.6	521.3	519.9	521.3
42.5°	608.6	577.1	553.2	532.3	516.5	505.5	500.3	497.0	495.5	495.1	495.5
45°	572.3	542.7	519.9	502.7	486.5	476.5	472.2	469.8	468.3	470.7	471.2
47.5°	536.1	509.4	488.9	468.8	455.5	448.3	444.0	442.1	443.5	444.5	447.8
50°	500.3	475.5	454.0	436.4	425.9	419.2	417.8	414.5	416.8	418.3	420.7
52.5°	464.1	441.6	422.6	405.9	394.9	390.6	387.3	385.8	389.2	389.2	391.6
55°	427.3	407.8	390.1	374.9	366.3	361.0	358.7	356.7	358.7	359.1	358.7
57.5°	393.0	374.4	355.8	342.9	335.8	330.0	327.7	326.7	326.2	328.1	327.7
60°	356.7	339.1	324.3	311.0	303.8	300.5	295.2	296.2	296.2	296.2	291.4
62.5°	320.5	302.9	290.0	280.9	272.3	266.6	265.7	264.2	261.4	260.9	254.7
65°	283.3	269.9	259.0	249.9	241.3	236.6	235.1	230.8	227.5	221.3	217.0
67.5°	249.0	239.4	226.5	218.9	211.8	206.0	200.8	197.5	190.8	184.6	180.8
70°	214.6	204.6	196.0	187.9	180.8	175.5	169.3	163.1	158.8	155.0	152.1
72.5°	180.3	171.7	164.5	156.9	149.3	144.0	139.3	134.5	132.6	130.7	129.2
75°	148.3	140.2	133.5	127.3	123.0	116.8	114.5	112.6	110.6	108.3	105.4
77.5°	117.3	111.1	105.9	100.6	96.8	93.5	91.6	85.8	81.1	80.1	79.2
80°	87.3	82.5	79.2	75.4	71.1	66.3	64.9	63.0	62.0	62.0	62.5
82.5°	61.0	58.2	54.4	51.0	49.6	47.7	47.7	47.2	46.7	47.2	47.2
85°	37.2	33.4	32.4	32.0	32.4	32.4	32.4	32.4	32.0	32.4	31.5
87.5°	16.2	17.6	18.1	16.7	17.2	16.2	16.7	16.7	16.7	17.2	16.7
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: P243594

CATALOG NUMBER: S124RDRP-H1020D927-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1224.8	1224.8	1224.8	1224.8
2.5°	1159.9	1159.9	1155.1	1151.3
5°	1094.6	1088.4	1087.4	1081.7
7.5°	1033.5	1032.6	1030.2	1030.2
10°	984.9	981.5	978.2	977.7
12.5°	916.2	921.0	915.2	913.8
15°	856.1	852.3	847.5	837.5
17.5°	800.3	793.1	791.2	786.9
20°	756.4	751.2	749.3	746.9
22.5°	714.9	714.0	708.2	706.8
25°	684.4	679.6	675.8	673.4
27.5°	651.0	647.7	645.8	642.0
30°	620.5	619.5	617.2	617.2
32.5°	592.8	590.0	590.0	589.5
35°	567.6	568.5	565.6	564.7
37.5°	543.7	542.3	542.7	541.8
40°	520.3	519.4	519.4	519.9
42.5°	496.5	497.0	497.9	497.9
45°	472.6	473.1	474.1	474.1
47.5°	450.2	449.3	450.2	449.3
50°	421.6	424.5	424.0	423.5
52.5°	392.5	391.6	393.5	393.0
55°	361.0	359.6	361.5	359.6
57.5°	325.7	326.2	326.2	325.3
60°	290.5	289.0	287.1	287.1
62.5°	249.4	245.1	242.3	244.2
65°	209.9	206.5	205.6	204.1
67.5°	178.4	174.6	173.1	172.6
70°	151.2	149.3	148.8	148.8
72.5°	128.3	128.3	126.9	125.9
75°	104.4	102.5	100.2	100.2
77.5°	78.2	77.7	77.3	77.3
80°	61.0	61.0	61.5	62.0
82.5°	45.8	46.3	46.7	46.7
85°	31.0	31.0	31.5	31.5
87.5°	16.7	16.7	16.7	16.2
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P243594

CATALOG NUMBER: S124RDRP-H1020D927-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	17.64	19.17	18.00	19.48	19.80	19.33	20.87	19.70	21.18	21.49
	3H	18.87	20.25	19.25	20.57	20.94	20.82	22.19	21.19	22.52	22.88
	4H	19.30	20.59	19.70	20.94	21.32	21.36	22.65	21.76	23.00	23.37
	6H	19.58	20.77	19.99	21.14	21.53	21.74	22.94	22.16	23.30	23.70
	8H	19.67	20.80	20.09	21.19	21.59	21.86	23.00	22.29	23.39	23.79
	12H	19.72	20.81	20.15	21.19	21.62	21.94	23.03	22.37	23.41	23.84
4H	2H	18.84	20.14	19.24	20.48	20.86	19.86	21.15	20.26	21.50	21.88
	3H	20.11	21.19	20.52	21.59	21.99	21.64	22.71	22.05	23.11	23.51
	4H	20.58	21.55	21.02	21.96	22.40	22.29	23.26	22.73	23.67	24.11
	6H	20.92	21.76	21.37	22.20	22.66	22.79	23.63	23.25	24.07	24.53
	8H	21.02	21.80	21.48	22.25	22.72	22.95	23.73	23.41	24.18	24.64
	12H	21.09	21.80	21.58	22.27	22.75	23.06	23.76	23.54	24.24	24.71
8H	4H	20.99	21.78	21.46	22.22	22.69	22.42	23.21	22.88	23.65	24.12
	6H	21.39	22.04	21.89	22.53	23.01	23.02	23.67	23.52	24.16	24.64
	8H	21.54	22.12	22.05	22.63	23.12	23.24	23.82	23.75	24.33	24.82
	12H	21.66	22.18	22.17	22.67	23.23	23.42	23.93	23.93	24.42	24.99
12H	4H	21.04	21.74	21.52	22.22	22.69	22.41	23.11	22.89	23.59	24.06
	6H	21.45	22.03	21.96	22.54	23.03	23.01	23.60	23.53	24.11	24.59
	8H	21.64	22.16	22.15	22.65	23.21	23.27	23.79	23.78	24.28	24.85