

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: P242755

Luminaire Tested: S124RDRP-S1195D930-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242755
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-S1195D930-X4F0-XX-UDD-A-W
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

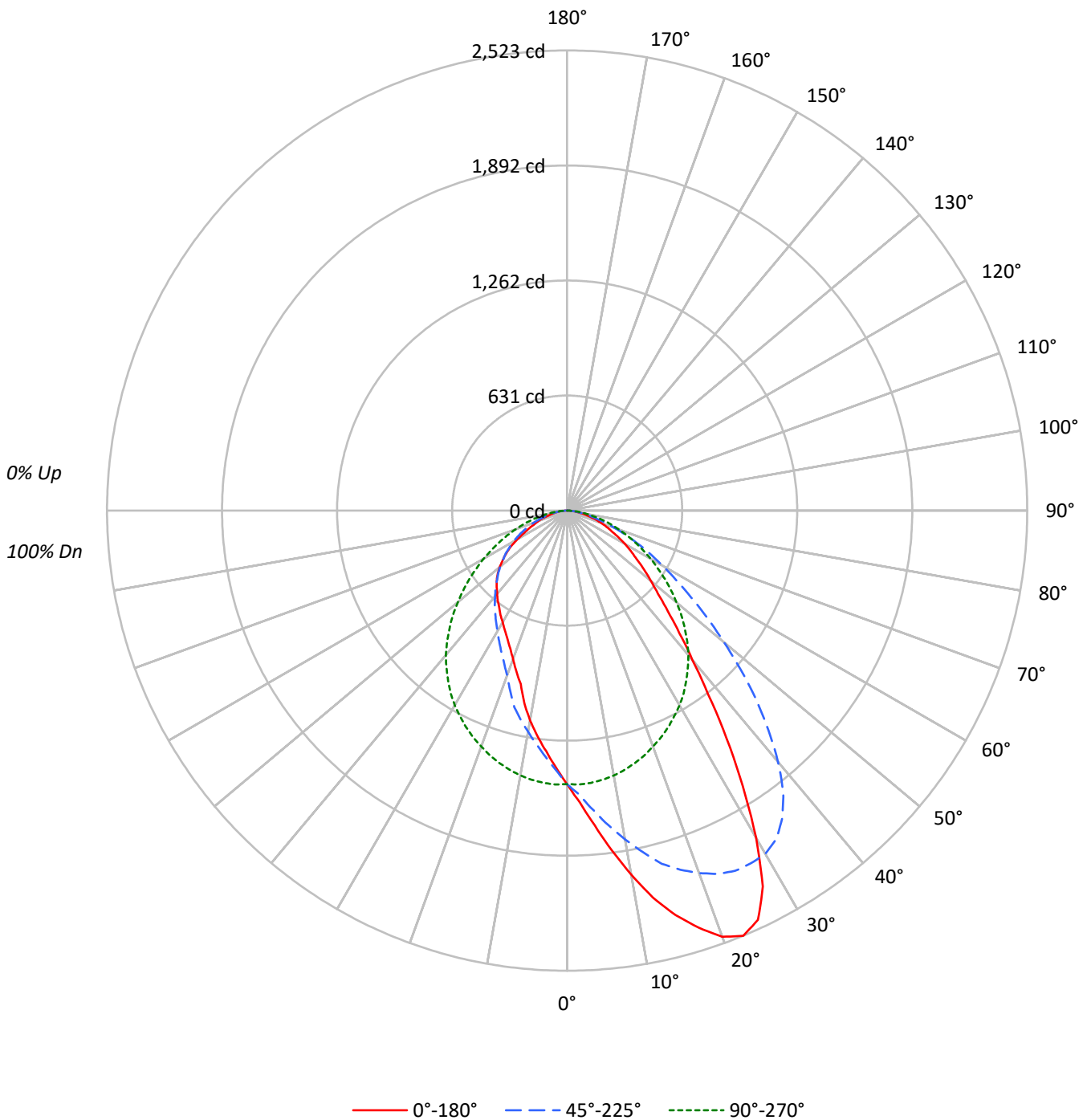
Lumens per Lamp: N/A
Luminaire Lumens: 3790.7 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.22 / 1.39
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')
CIE Type: Direct

Input Watts (W): 41.1
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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88					86				
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76					74				
3	93	83	76	70	90	81	75	69	79	73	68	76	71	67	73	69	65					63				
4	85	74	66	60	83	73	65	59	71	64	59	68	63	58	66	61	57					55				
5	79	67	58	52	77	66	58	52	64	57	51	62	56	51	60	55	50					48				
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45					43				
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40					38				
8	64	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36					34				
9	59	47	39	33	58	46	38	33	45	38	33	44	38	33	43	37	33					31				
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	13330	13330	13330	13330	13330
5°	15462	14717	13369	12098	11817
10°	18290	16523	13312	11119	10547
15°	21127	18447	13188	10275	9063
20°	23524	20003	13019	9087	8196
25°	24283	21379	12852	8373	7609
30°	21258	22300	12650	7845	7256
35°	16547	22310	12352	7447	7041
40°	12409	20870	12009	7129	6926
45°	9798	18418	11461	6859	6866
50°	8271	15498	10828	6625	6667
55°	7209	12846	10131	6376	6311
60°	6487	10752	9410	6014	5586
65°	5719	8958	8628	5603	4804
70°	5151	7160	7820	5055	4335
75°	4317	5560	6931	4441	3692
80°	3650	4208	5907	3681	3466
85°	3080	3325	4620	3264	3080

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 19671 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.2	3.8
10°-20°	438.5	11.6
20°-30°	686.9	18.1
30°-40°	762.7	20.1
40°-50°	675.9	17.8
50°-60°	526.7	13.9
60°-70°	344.5	9.1
70°-80°	169.0	4.5
80°-90°	41.2	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°	1270.5	33.5
0°-40°	2033.3	53.6
0°-60°	3235.9	85.4
0°-90°	3790.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3790.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1500	1500	1500	1500	1500	
5°	1733	1649	1498	1356	1324	174
15°	2296	2005	1433	1116	985	653
25°	2476	2180	1310	854	776	1106
35°	1525	2056	1138	686	649	954
45°	779	1465	912	546	546	615
55°	465	829	654	411	407	423
65°	272	426	410	266	228	273
75°	126	162	202	129	108	138
85°	30	33	45	32	30	35
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°	1499.6	1499.6	1499.6	1499.6	1499.6	1499.6	1499.6	1499.6	1499.6	1499.6	1499.6
2.5°	1602.3	1607.7	1602.3	1601.7	1595.6	1593.8	1591.4	1583.5	1569.0	1560.6	1562.4
5°	1732.8	1747.9	1739.4	1738.2	1724.9	1711.6	1703.2	1683.8	1663.3	1649.4	1637.9
7.5°	1877.8	1886.8	1880.8	1874.1	1851.2	1843.9	1824.0	1801.0	1766.6	1740.6	1717.1
10°	2026.4	2033.6	2031.2	2015.5	1999.8	1967.8	1949.7	1914.0	1867.5	1830.6	1796.2
12.5°	2172.6	2180.5	2154.5	2159.3	2126.1	2102.5	2071.1	2024.0	1968.4	1918.2	1872.9
15°	2295.8	2286.2	2286.2	2274.1	2240.9	2205.8	2176.2	2129.1	2061.4	2004.6	1944.8
17.5°	2397.3	2401.6	2396.7	2365.9	2341.8	2306.1	2253.0	2199.2	2140.6	2064.5	2005.2
20°	2486.8	2486.8	2481.3	2462.0	2428.2	2389.5	2330.9	2271.1	2191.3	2114.6	2045.7
22.5°	2523.0	2525.4	2518.8	2503.7	2474.1	2436.6	2388.9	2327.9	2245.1	2156.3	2066.9
25°	2475.9	2487.4	2488.6	2484.3	2475.3	2452.3	2409.4	2347.2	2273.5	2179.8	2088.0
27.5°	2323.6	2338.7	2344.8	2358.1	2382.8	2391.9	2386.5	2344.8	2273.5	2181.1	2089.8
30°	2071.1	2083.2	2122.5	2173.8	2213.7	2249.9	2281.3	2289.8	2253.6	2172.6	2075.3
32.5°	1790.8	1808.3	1847.6	1903.7	1976.8	2044.5	2124.9	2167.8	2175.6	2135.1	2046.9
35°	1524.9	1537.0	1573.3	1631.3	1711.0	1802.2	1914.0	2001.0	2060.2	2056.0	2001.0
37.5°	1270.0	1286.9	1323.7	1371.5	1450.0	1566.6	1672.3	1788.9	1895.3	1947.2	1919.4
40°	1069.4	1070.0	1105.6	1155.2	1227.7	1326.2	1444.0	1576.9	1698.9	1798.6	1817.9
42.5°	911.1	911.1	931.6	986.0	1033.1	1124.4	1235.5	1367.2	1515.3	1634.3	1693.5
45°	779.4	784.8	804.2	836.2	877.3	955.8	1045.8	1168.5	1328.6	1465.1	1550.3
47.5°	675.5	685.1	696.6	725.6	759.4	814.4	891.2	1005.9	1138.9	1290.5	1408.3
50°	598.1	599.3	615.0	629.5	657.9	699.6	764.9	856.7	976.3	1120.7	1255.5
52.5°	531.7	531.1	538.9	558.3	580.0	610.2	659.8	741.3	844.0	969.7	1109.9
55°	465.2	468.2	475.5	490.0	507.5	530.5	572.1	635.0	718.4	828.9	955.2
57.5°	414.5	416.3	422.9	428.4	445.3	462.2	496.0	541.3	614.4	706.9	830.7
60°	364.9	365.5	367.3	376.4	389.1	404.8	425.9	462.8	522.0	604.8	697.8
62.5°	316.6	317.8	320.8	326.9	335.9	345.6	367.9	395.7	442.3	509.9	591.5
65°	271.9	272.5	276.7	279.1	287.0	296.6	313.0	332.9	366.7	425.9	489.4
67.5°	234.4	234.4	234.4	238.0	244.1	250.7	261.6	278.5	305.7	343.8	403.0
70°	198.2	198.2	199.4	201.2	204.2	209.6	215.1	227.2	245.9	275.5	318.4
72.5°	164.3	164.9	166.1	166.1	167.4	171.6	175.2	181.9	194.5	215.1	247.7
75°	125.7	127.5	130.5	132.9	135.9	135.3	139.6	144.4	148.6	161.9	181.9
77.5°	99.1	97.9	97.9	100.3	100.9	101.5	104.5	108.8	112.4	119.6	126.9
80°	71.3	71.3	73.1	73.7	73.1	73.7	76.7	78.5	79.8	82.2	88.8
82.5°	49.5	50.8	49.5	50.1	50.8	51.4	53.8	53.8	55.0	55.6	57.4
85°	30.2	30.8	31.4	30.2	30.2	30.2	31.4	32.0	33.2	32.6	33.8
87.5°	13.3	12.7	13.3	13.3	13.9	13.3	13.9	15.1	13.9	14.5	14.5
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°	1499.6	1499.6	1499.6	1499.6	1499.6	1499.6	1499.6	1499.6	1499.6	1499.6	1499.6
2.5°	1556.3	1547.9	1543.7	1534.0	1522.5	1516.5	1511.0	1503.2	1492.9	1482.0	1474.2
5°	1623.4	1608.9	1590.8	1569.0	1549.7	1531.0	1514.7	1498.3	1479.6	1460.3	1440.9
7.5°	1689.9	1663.9	1636.1	1602.9	1570.8	1541.2	1514.7	1488.7	1459.1	1432.5	1407.7
10°	1759.9	1721.3	1678.4	1633.1	1587.8	1548.5	1509.8	1474.8	1436.1	1401.7	1372.7
12.5°	1816.7	1769.6	1715.8	1656.6	1599.8	1550.3	1504.4	1456.1	1410.7	1372.7	1331.6
15°	1880.8	1818.6	1749.1	1681.4	1610.7	1546.1	1486.3	1433.1	1382.9	1330.4	1293.5
17.5°	1924.9	1853.0	1770.8	1692.3	1611.3	1536.4	1468.7	1407.1	1349.7	1297.2	1253.7
20°	1963.6	1882.0	1788.3	1695.9	1602.3	1520.7	1446.4	1376.3	1316.5	1258.5	1213.2
22.5°	1985.3	1892.9	1788.3	1690.5	1592.6	1502.6	1419.2	1345.5	1279.0	1221.0	1169.7
25°	1986.5	1889.8	1785.3	1674.2	1567.8	1474.2	1389.6	1310.4	1237.9	1179.9	1126.8
27.5°	1981.7	1869.9	1764.8	1651.8	1542.4	1442.8	1355.2	1271.2	1199.3	1137.7	1083.3
30°	1967.2	1845.1	1730.3	1611.9	1500.8	1405.9	1312.3	1232.5	1157.0	1092.3	1037.4
32.5°	1935.8	1814.9	1689.3	1567.2	1454.2	1355.8	1268.2	1187.8	1114.1	1047.6	988.4
35°	1892.3	1769.6	1635.5	1511.0	1400.5	1299.0	1215.6	1138.3	1067.6	996.9	935.3
37.5°	1842.1	1714.0	1581.7	1445.2	1335.2	1238.5	1160.6	1086.3	1017.4	952.8	884.5
40°	1764.8	1650.6	1512.8	1377.5	1263.9	1171.5	1100.8	1034.9	965.5	901.4	833.2
42.5°	1671.1	1578.1	1438.5	1302.6	1190.8	1102.6	1038.0	973.9	912.3	850.7	778.8
45°	1564.8	1491.1	1360.6	1230.1	1117.1	1028.9	968.5	911.7	856.1	796.9	729.8
47.5°	1446.4	1392.0	1278.4	1141.9	1036.2	955.2	897.2	850.1	801.1	741.3	680.9
50°	1321.9	1289.9	1181.2	1059.1	959.4	886.3	826.5	783.0	743.7	686.9	634.4
52.5°	1189.0	1175.7	1088.1	972.7	877.3	806.0	757.0	719.0	679.1	634.4	586.0
55°	1053.7	1062.7	984.8	883.9	793.3	732.9	686.3	653.7	619.9	580.0	541.9
57.5°	912.9	947.3	889.3	798.1	710.5	653.7	618.1	589.1	560.7	526.8	492.4
60°	789.0	816.8	787.2	709.3	635.0	583.0	550.4	529.3	500.9	470.6	445.9
62.5°	668.2	698.4	683.9	624.7	557.0	514.1	486.4	467.0	447.7	422.3	396.3
65°	570.9	590.3	581.8	538.3	489.4	451.3	424.7	410.2	390.9	371.6	348.6
67.5°	456.8	494.8	488.8	464.6	417.5	387.3	368.5	355.3	337.1	322.6	306.3
70°	359.5	393.9	393.3	374.6	351.6	323.8	311.8	300.9	285.2	271.3	258.6
72.5°	277.9	308.7	314.8	301.5	287.6	268.3	256.8	250.1	235.0	226.6	216.9
75°	206.0	229.0	235.0	235.0	227.8	216.9	206.6	201.8	190.9	182.5	176.4
77.5°	145.0	160.7	169.8	171.6	172.2	168.0	158.3	154.7	146.2	143.2	136.5
80°	95.5	105.1	116.0	119.6	122.6	121.4	117.8	115.4	107.5	104.5	102.1
82.5°	58.6	62.8	71.3	80.4	78.5	82.8	79.8	77.9	72.5	71.9	69.5
85°	34.4	35.0	36.3	41.7	44.7	45.9	46.5	45.3	43.5	43.5	39.3
87.5°	14.5	13.9	15.1	15.1	15.7	18.1	19.9	20.5	18.7	16.9	15.1
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1499.6	1499.6	1499.6	1499.6	1499.6	1499.6	1499.6	1499.6	1499.6	1499.6	1499.6
2.5°	1465.7	1459.7	1451.8	1442.8	1431.9	1422.2	1418.0	1421.6	1423.4	1418.6	1418.0
5°	1427.7	1412.6	1400.5	1382.3	1367.8	1355.8	1347.3	1343.7	1344.9	1335.2	1332.8
7.5°	1385.4	1369.1	1349.1	1328.6	1309.2	1292.3	1283.3	1279.0	1268.8	1264.5	1257.9
10°	1344.9	1320.7	1301.4	1276.0	1253.0	1231.9	1221.6	1213.2	1202.9	1198.1	1187.8
12.5°	1303.2	1274.2	1252.4	1225.9	1202.3	1175.7	1166.0	1148.5	1131.0	1119.5	1105.6
15°	1264.5	1230.7	1204.7	1173.3	1145.5	1116.5	1090.5	1061.5	1050.7	1027.7	1014.4
17.5°	1218.6	1183.6	1154.6	1114.1	1072.4	1037.4	1008.4	978.2	961.8	946.1	939.5
20°	1173.3	1141.9	1097.2	1048.2	1000.5	960.6	938.3	920.2	902.0	891.8	884.5
22.5°	1130.4	1088.1	1034.3	980.6	932.8	903.8	885.7	867.0	853.1	843.4	833.2
25°	1081.5	1028.9	973.9	913.5	880.9	853.7	833.2	818.0	809.0	796.3	791.5
27.5°	1033.7	970.3	908.1	867.0	833.2	807.2	788.4	777.6	765.5	757.0	750.4
30°	976.9	912.3	857.9	819.3	784.8	764.3	749.8	736.5	727.4	720.8	715.9
32.5°	920.8	856.1	812.6	770.3	744.9	725.0	709.3	700.2	693.6	684.5	682.1
35°	867.0	809.6	769.7	732.3	704.5	686.3	674.3	664.0	657.9	655.5	653.7
37.5°	814.4	766.7	722.6	692.4	666.4	652.5	636.8	632.0	627.7	622.3	624.7
40°	764.9	720.8	682.7	650.1	630.1	614.4	606.0	599.9	596.3	596.3	596.3
42.5°	722.0	679.1	642.2	613.8	593.9	581.2	571.5	566.7	566.1	565.5	569.1
45°	677.3	637.4	599.9	575.8	558.9	545.6	540.1	535.9	535.9	538.3	538.9
47.5°	632.6	595.1	564.9	537.1	521.4	512.9	508.1	505.7	505.7	508.7	511.1
50°	592.1	555.2	525.6	501.5	487.0	479.1	474.9	473.7	474.9	474.9	479.1
52.5°	548.0	516.0	487.0	467.6	450.7	443.5	441.6	439.8	440.4	442.9	444.1
55°	505.1	475.5	447.7	428.4	416.3	411.4	406.0	406.6	405.4	406.6	406.6
57.5°	461.6	435.6	408.4	392.7	382.4	375.2	369.1	371.0	369.1	369.1	368.5
60°	419.9	390.9	370.4	356.5	344.4	338.3	332.9	334.1	332.3	331.1	328.7
62.5°	374.6	351.6	332.3	319.0	309.9	302.7	297.3	295.4	290.6	285.8	279.7
65°	331.1	311.1	293.6	280.9	271.9	266.4	262.2	258.6	249.5	239.9	235.0
67.5°	288.2	273.7	256.8	245.9	238.6	231.4	223.5	216.9	207.8	201.8	198.8
70°	247.1	233.2	219.3	209.0	201.2	194.5	185.5	181.3	175.2	172.8	169.8
72.5°	207.8	195.1	182.5	173.4	164.9	160.1	153.5	149.2	147.4	146.8	143.8
75°	168.0	157.7	148.0	139.6	132.9	129.3	126.3	123.3	122.0	116.6	113.6
77.5°	129.3	122.0	116.0	109.4	105.1	102.7	96.1	91.8	89.4	86.4	85.8
80°	95.5	90.6	84.6	81.0	74.3	71.9	69.5	68.9	68.3	67.7	67.1
82.5°	65.9	61.0	55.0	53.2	52.6	51.4	50.1	49.5	48.9	49.5	49.5
85°	36.3	33.8	33.8	33.2	32.6	32.0	31.4	31.4	30.8	31.4	30.8
87.5°	15.1	14.5	14.5	13.3	13.9	13.9	13.3	13.3	13.9	12.7	12.7
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: P242755

CATALOG NUMBER: S124RDRP-S1195D930-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1499.6	1499.6	1499.6	1499.6
2.5°	1414.4	1415.6	1411.3	1410.1
5°	1328.0	1326.8	1323.7	1324.3
7.5°	1253.0	1248.8	1251.8	1247.0
10°	1185.4	1178.7	1173.3	1168.5
12.5°	1092.9	1087.5	1079.7	1082.7
15°	1006.5	997.5	983.0	984.8
17.5°	929.2	930.4	922.0	924.4
20°	871.8	867.6	868.2	866.4
22.5°	831.9	826.5	821.1	816.8
25°	786.0	782.4	777.0	775.8
27.5°	745.5	744.9	742.5	739.5
30°	711.1	709.9	708.7	706.9
32.5°	680.3	679.7	678.5	679.1
35°	651.3	650.7	649.5	648.9
37.5°	624.1	625.9	624.7	624.7
40°	595.7	596.3	597.5	596.9
42.5°	572.1	572.1	574.0	571.5
45°	543.1	546.8	546.2	546.2
47.5°	512.3	516.6	517.2	517.2
50°	482.1	480.9	482.7	482.1
52.5°	445.3	445.9	445.3	444.7
55°	407.2	407.8	406.6	407.2
57.5°	366.7	364.3	366.1	364.9
60°	322.6	317.8	316.6	314.2
62.5°	273.1	270.1	265.2	268.3
65°	230.2	227.8	226.0	228.4
67.5°	195.8	194.5	194.5	193.3
70°	169.8	168.0	168.0	166.8
72.5°	143.2	141.4	142.0	141.4
75°	110.0	106.9	106.9	107.5
77.5°	85.8	85.2	86.4	84.6
80°	67.1	66.5	65.9	67.7
82.5°	48.3	48.3	48.3	50.8
85°	31.4	30.2	31.4	30.2
87.5°	13.9	13.3	12.7	13.3
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242755
 CATALOG NUMBER: S124RDRP-S1195D930-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	18.10	19.62	18.47	19.94	20.25	19.92	21.44	20.28	21.75	22.07
	3H	19.33	20.69	19.71	21.02	21.38	21.37	22.74	21.75	23.07	23.43
	4H	19.76	21.04	20.16	21.39	21.77	21.89	23.17	22.29	23.52	23.90
	6H	20.03	21.22	20.45	21.58	21.97	22.24	23.42	22.65	23.79	24.18
	8H	20.11	21.24	20.54	21.63	22.03	22.34	23.47	22.77	23.86	24.26
	12H	20.16	21.24	20.59	21.62	22.05	22.40	23.48	22.83	23.86	24.29
4H	2H	19.36	20.64	19.76	20.99	21.37	20.43	21.71	20.83	22.06	22.43
	3H	20.60	21.66	21.01	22.06	22.46	22.17	23.23	22.58	23.63	24.03
	4H	21.06	22.02	21.49	22.43	22.87	22.79	23.75	23.23	24.17	24.60
	6H	21.38	22.21	21.84	22.66	23.12	23.25	24.08	23.71	24.52	24.98
	8H	21.48	22.25	21.94	22.70	23.16	23.39	24.16	23.85	24.61	25.07
	12H	21.55	22.24	22.03	22.72	23.19	23.48	24.17	23.96	24.65	25.12
8H	4H	21.46	22.24	21.93	22.68	23.15	22.91	23.68	23.37	24.13	24.59
	6H	21.85	22.49	22.35	22.98	23.46	23.45	24.09	23.95	24.58	25.06
	8H	21.98	22.56	22.50	23.07	23.56	23.64	24.21	24.15	24.72	25.21
	12H	22.10	22.60	22.61	23.10	23.66	23.79	24.29	24.30	24.79	25.35
12H	4H	21.50	22.19	21.98	22.67	23.14	22.89	23.59	23.38	24.07	24.54
	6H	21.90	22.47	22.41	22.98	23.47	23.44	24.01	23.95	24.52	25.01
	8H	22.08	22.58	22.59	23.08	23.64	23.67	24.17	24.18	24.67	25.23