

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: P242750

Luminaire Tested: S124RDRP-S1195D840-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242750
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-S1195D840-X4F0-XX-UDD-A-W
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

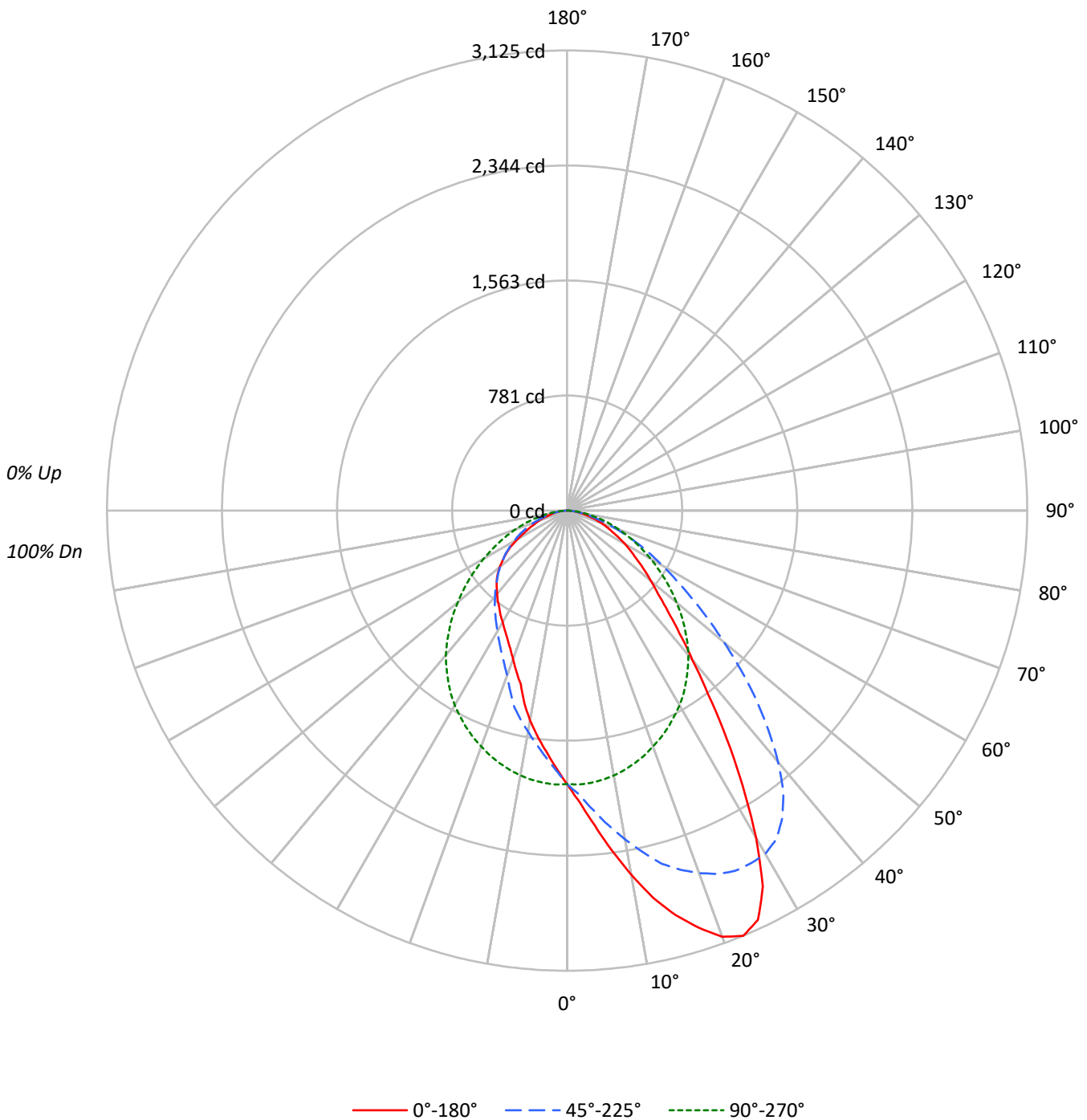
Lumens per Lamp: N/A
Luminaire Lumens: 4695.3 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.22 / 1.39
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')
CIE Type: Direct

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																		
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	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																												
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°	16510	16510	16510	16510	16510
5°	19151	18229	16560	14984	14637
10°	22655	20467	16488	13773	13063
15°	26169	22850	16335	12727	11225
20°	29137	24776	16125	11256	10151
25°	30078	26482	15920	10371	9424
30°	26330	27622	15669	9717	8987
35°	20496	27634	15299	9225	8721
40°	15370	25851	14875	8832	8580
45°	12136	22814	14196	8495	8504
50°	10246	19197	13412	8206	8258
55°	8930	15911	12548	7897	7817
60°	8036	13317	11655	7451	6917
65°	7084	11097	10687	6941	5950
70°	6380	8868	9686	6263	5367
75°	5347	6889	8583	5498	4575
80°	4520	5211	7315	4561	4290
85°	3814	4120	5722	4049	3814

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 24365 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.8	3.8
10°-20°	543.1	11.6
20°-30°	850.8	18.1
30°-40°	944.8	20.1
40°-50°	837.2	17.8
50°-60°	652.4	13.9
60°-70°	426.8	9.1
70°-80°	209.4	4.5
80°-90°	51.0	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°	1573.7	33.5
0°-40°	2518.5	53.6
0°-60°	4008.1	85.4
0°-90°	4695.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4695.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1857	1857	1857	1857	1857	
5°	2146	2043	1856	1679	1640	216
15°	2844	2483	1775	1383	1220	809
25°	3067	2700	1623	1057	961	1369
35°	1889	2547	1410	850	804	1182
45°	965	1815	1129	676	676	761
55°	576	1027	810	510	504	523
65°	337	528	508	330	283	338
75°	156	201	250	160	133	171
85°	37	40	56	40	37	43
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°	1857.4	1857.4	1857.4	1857.4	1857.4	1857.4	1857.4	1857.4	1857.4	1857.4	1857.4
2.5°	1984.6	1991.4	1984.6	1983.9	1976.4	1974.2	1971.2	1961.4	1943.5	1933.0	1935.2
5°	2146.3	2165.0	2154.5	2153.0	2136.5	2120.1	2109.6	2085.7	2060.2	2043.0	2028.8
7.5°	2325.9	2337.1	2329.6	2321.4	2292.9	2284.0	2259.3	2230.8	2188.2	2156.0	2126.8
10°	2510.0	2519.0	2516.0	2496.5	2477.0	2437.4	2414.9	2370.8	2313.2	2267.5	2224.8
12.5°	2691.1	2700.8	2668.6	2674.6	2633.4	2604.3	2565.3	2507.0	2438.1	2376.0	2319.9
15°	2843.7	2831.8	2831.8	2816.8	2775.6	2732.2	2695.6	2637.2	2553.4	2483.0	2408.9
17.5°	2969.5	2974.7	2968.7	2930.5	2900.6	2856.5	2790.6	2724.0	2651.4	2557.1	2483.8
20°	3080.2	3080.2	3073.5	3049.5	3007.6	2959.7	2887.1	2813.1	2714.3	2619.2	2533.9
22.5°	3125.1	3128.1	3119.9	3101.2	3064.5	3018.1	2959.0	2883.4	2780.9	2670.9	2560.1
25°	3066.7	3081.0	3082.5	3077.2	3066.0	3037.6	2984.4	2907.3	2816.0	2700.1	2586.3
27.5°	2878.2	2896.9	2904.4	2920.8	2951.5	2962.7	2956.0	2904.4	2816.0	2701.5	2588.5
30°	2565.3	2580.3	2629.0	2692.6	2742.0	2786.9	2825.8	2836.3	2791.4	2691.1	2570.6
32.5°	2218.1	2239.8	2288.5	2358.1	2448.6	2532.4	2632.0	2685.1	2694.8	2644.7	2535.4
35°	1888.8	1903.8	1948.7	2020.5	2119.3	2232.3	2370.8	2478.5	2551.9	2546.6	2478.5
37.5°	1573.0	1594.0	1639.6	1698.8	1796.0	1940.5	2071.4	2215.9	2347.6	2411.9	2377.5
40°	1324.6	1325.3	1369.5	1430.8	1520.7	1642.6	1788.6	1953.2	2104.4	2227.8	2251.8
42.5°	1128.5	1128.5	1154.0	1221.3	1279.7	1392.7	1530.4	1693.5	1876.9	2024.3	2097.6
45°	965.4	972.1	996.1	1035.7	1086.6	1183.9	1295.4	1447.3	1645.6	1814.8	1920.3
47.5°	836.7	848.6	862.8	898.8	940.7	1008.8	1103.8	1246.0	1410.6	1598.5	1744.4
50°	740.9	742.4	761.8	779.8	815.0	866.6	947.4	1061.2	1209.3	1388.2	1555.1
52.5°	658.5	657.8	667.5	691.5	718.4	755.8	817.2	918.2	1045.4	1201.1	1374.7
55°	576.2	580.0	589.0	606.9	628.6	657.1	708.7	786.5	889.8	1026.7	1183.1
57.5°	513.4	515.6	523.8	530.6	551.5	572.5	614.4	670.5	761.1	875.6	1029.0
60°	452.0	452.8	455.0	466.2	481.9	501.4	527.6	573.2	646.6	749.1	864.3
62.5°	392.1	393.6	397.4	404.9	416.1	428.1	455.7	490.2	547.8	631.6	732.6
65°	336.8	337.5	342.7	345.7	355.5	367.4	387.6	412.3	454.2	527.6	606.2
67.5°	290.4	290.4	290.4	294.9	302.3	310.6	324.0	345.0	378.7	425.8	499.2
70°	245.5	245.5	247.0	249.2	252.9	259.7	266.4	281.4	304.6	341.2	394.4
72.5°	203.6	204.3	205.8	205.8	207.3	212.5	217.0	225.3	241.0	266.4	306.8
75°	155.7	157.9	161.6	164.6	168.4	167.6	172.9	178.9	184.1	200.6	225.3
77.5°	122.7	121.2	121.2	124.2	125.0	125.7	129.5	134.7	139.2	148.2	157.2
80°	88.3	88.3	90.6	91.3	90.6	91.3	95.0	97.3	98.8	101.8	110.0
82.5°	61.4	62.9	61.4	62.1	62.9	63.6	66.6	66.6	68.1	68.8	71.1
85°	37.4	38.2	38.9	37.4	37.4	37.4	38.9	39.7	41.2	40.4	41.9
87.5°	16.5	15.7	16.5	16.5	17.2	16.5	17.2	18.7	17.2	18.0	18.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1857.4	1857.4	1857.4	1857.4	1857.4	1857.4	1857.4	1857.4	1857.4	1857.4	1857.4
2.5°	1927.8	1917.3	1912.0	1900.1	1885.8	1878.4	1871.6	1861.9	1849.2	1835.7	1826.0
5°	2010.8	1992.9	1970.4	1943.5	1919.5	1896.3	1876.1	1855.9	1832.7	1808.8	1784.8
7.5°	2093.1	2061.0	2026.5	1985.4	1945.7	1909.0	1876.1	1843.9	1807.3	1774.3	1743.7
10°	2179.9	2132.1	2078.9	2022.8	1966.7	1918.0	1870.1	1826.7	1778.8	1736.2	1700.3
12.5°	2250.3	2191.9	2125.3	2052.0	1981.6	1920.3	1863.4	1803.5	1747.4	1700.3	1649.4
15°	2329.6	2252.5	2166.5	2082.7	1995.1	1915.0	1840.9	1775.1	1713.0	1647.9	1602.2
17.5°	2384.2	2295.2	2193.4	2096.1	1995.9	1903.1	1819.2	1742.9	1671.8	1606.7	1552.8
20°	2432.1	2331.1	2215.1	2100.6	1984.6	1883.6	1791.6	1704.7	1630.7	1558.8	1502.7
22.5°	2459.1	2344.6	2215.1	2093.9	1972.7	1861.2	1757.9	1666.6	1584.3	1512.4	1448.8
25°	2460.6	2340.8	2211.4	2073.7	1942.0	1826.0	1721.2	1623.2	1533.4	1461.5	1395.7
27.5°	2454.6	2316.1	2185.9	2046.0	1910.5	1787.1	1678.6	1574.5	1485.5	1409.1	1341.8
30°	2436.6	2285.5	2143.3	1996.6	1858.9	1741.4	1625.4	1526.6	1433.1	1353.0	1284.9
32.5°	2397.7	2248.0	2092.4	1941.2	1801.3	1679.3	1570.8	1471.3	1380.0	1297.6	1224.3
35°	2343.8	2191.9	2025.8	1871.6	1734.7	1609.0	1505.7	1409.9	1322.3	1234.8	1158.4
37.5°	2281.7	2123.1	1959.2	1790.1	1653.9	1534.1	1437.6	1345.5	1260.2	1180.2	1095.6
40°	2185.9	2044.5	1873.9	1706.2	1565.6	1451.1	1363.5	1281.9	1195.9	1116.5	1032.0
42.5°	2069.9	1954.7	1781.8	1613.4	1475.0	1365.7	1285.7	1206.3	1130.0	1053.7	964.6
45°	1938.2	1846.9	1685.3	1523.6	1383.7	1274.4	1199.6	1129.3	1060.4	987.1	904.0
47.5°	1791.6	1724.2	1583.5	1414.4	1283.4	1183.1	1111.3	1052.9	992.3	918.2	843.4
50°	1637.4	1597.7	1463.0	1311.9	1188.4	1097.8	1023.7	969.9	921.2	850.9	785.8
52.5°	1472.8	1456.3	1347.8	1204.8	1086.6	998.3	937.7	890.5	841.1	785.8	725.9
55°	1305.1	1316.4	1219.8	1094.8	982.6	907.8	850.1	809.7	767.8	718.4	671.3
57.5°	1130.8	1173.4	1101.6	988.6	880.1	809.7	765.6	729.6	694.5	652.6	609.9
60°	977.3	1011.8	975.1	878.6	786.5	722.2	681.7	655.6	620.4	583.0	552.3
62.5°	827.7	865.1	847.1	773.8	690.0	636.8	602.4	578.5	554.5	523.1	490.9
65°	707.2	731.1	720.7	666.8	606.2	559.0	526.1	508.1	484.2	460.2	431.8
67.5°	565.8	612.9	605.4	575.5	517.1	479.7	456.5	440.0	417.6	399.6	379.4
70°	445.3	487.9	487.2	464.0	435.5	401.1	386.1	372.7	353.2	336.0	320.3
72.5°	344.2	382.4	389.9	373.4	356.2	332.3	318.0	309.8	291.1	280.6	268.7
75°	255.2	283.6	291.1	291.1	282.1	268.7	255.9	249.9	236.5	226.0	218.5
77.5°	179.6	199.1	210.3	212.5	213.3	208.0	196.1	191.6	181.1	177.4	169.1
80°	118.2	130.2	143.7	148.2	151.9	150.4	145.9	142.9	133.2	129.5	126.5
82.5°	72.6	77.8	88.3	99.5	97.3	102.5	98.8	96.5	89.8	89.1	86.1
85°	42.7	43.4	44.9	51.6	55.4	56.9	57.6	56.1	53.9	53.9	48.6
87.5°	18.0	17.2	18.7	18.7	19.5	22.5	24.7	25.4	23.2	21.0	18.7
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°	1857.4	1857.4	1857.4	1857.4	1857.4	1857.4	1857.4	1857.4	1857.4	1857.4	1857.4
2.5°	1815.5	1808.0	1798.3	1787.1	1773.6	1761.6	1756.4	1760.9	1763.1	1757.1	1756.4
5°	1768.4	1749.6	1734.7	1712.2	1694.3	1679.3	1668.8	1664.3	1665.8	1653.9	1650.9
7.5°	1716.0	1695.8	1671.1	1645.6	1621.7	1600.7	1589.5	1584.3	1571.5	1566.3	1558.1
10°	1665.8	1635.9	1611.9	1580.5	1552.1	1525.9	1513.2	1502.7	1490.0	1484.0	1471.3
12.5°	1614.2	1578.3	1551.3	1518.4	1489.2	1456.3	1444.3	1422.6	1400.9	1386.7	1369.5
15°	1566.3	1524.4	1492.2	1453.3	1418.9	1383.0	1350.8	1314.9	1301.4	1272.9	1256.5
17.5°	1509.4	1466.0	1430.1	1380.0	1328.3	1284.9	1249.0	1211.6	1191.4	1171.9	1163.7
20°	1453.3	1414.4	1359.0	1298.4	1239.3	1189.9	1162.2	1139.7	1117.3	1104.6	1095.6
22.5°	1400.2	1347.8	1281.2	1214.6	1155.5	1119.5	1097.1	1073.9	1056.7	1044.7	1032.0
25°	1339.5	1274.4	1206.3	1131.5	1091.1	1057.4	1032.0	1013.3	1002.0	986.3	980.3
27.5°	1280.4	1201.9	1124.8	1073.9	1032.0	999.8	976.6	963.1	948.2	937.7	929.5
30°	1210.1	1130.0	1062.7	1014.8	972.1	946.7	928.7	912.2	901.0	892.8	886.8
32.5°	1140.5	1060.4	1006.5	954.1	922.7	898.0	878.6	867.3	859.1	847.9	844.9
35°	1073.9	1002.8	953.4	907.0	872.6	850.1	835.2	822.4	815.0	812.0	809.7
37.5°	1008.8	949.7	895.0	857.6	825.4	808.2	788.8	782.8	777.5	770.8	773.8
40°	947.4	892.8	845.6	805.2	780.5	761.1	750.6	743.1	738.6	738.6	738.6
42.5°	894.3	841.1	795.5	760.3	735.6	719.9	707.9	702.0	701.2	700.5	704.9
45°	838.9	789.5	743.1	713.2	692.2	675.8	669.0	663.8	663.8	666.8	667.5
47.5°	783.5	737.1	699.7	665.3	645.8	635.4	629.4	626.4	626.4	630.1	633.1
50°	733.4	687.7	651.1	621.1	603.2	593.4	588.2	586.7	588.2	588.2	593.4
52.5°	678.8	639.1	603.2	579.2	558.3	549.3	547.0	544.8	545.5	548.5	550.0
55°	625.6	589.0	554.5	530.6	515.6	509.6	502.9	503.6	502.1	503.6	503.6
57.5°	571.7	539.6	505.9	486.4	473.7	464.7	457.2	459.5	457.2	457.2	456.5
60°	520.1	484.2	458.7	441.5	426.6	419.1	412.3	413.8	411.6	410.1	407.1
62.5°	464.0	435.5	411.6	395.1	383.9	374.9	368.2	365.9	360.0	354.0	346.5
65°	410.1	385.4	363.7	348.0	336.8	330.0	324.8	320.3	309.1	297.1	291.1
67.5°	357.0	339.0	318.0	304.6	295.6	286.6	276.9	268.7	257.4	249.9	246.2
70°	306.1	288.9	271.7	258.9	249.2	241.0	229.7	224.5	217.0	214.0	210.3
72.5°	257.4	241.7	226.0	214.8	204.3	198.3	190.1	184.8	182.6	181.8	178.1
75°	208.0	195.3	183.3	172.9	164.6	160.1	156.4	152.7	151.2	144.4	140.7
77.5°	160.1	151.2	143.7	135.5	130.2	127.2	119.0	113.7	110.8	107.0	106.3
80°	118.2	112.3	104.8	100.3	92.0	89.1	86.1	85.3	84.6	83.8	83.1
82.5°	81.6	75.6	68.1	65.9	65.1	63.6	62.1	61.4	60.6	61.4	61.4
85°	44.9	41.9	41.9	41.2	40.4	39.7	38.9	38.9	38.2	38.9	38.2
87.5°	18.7	18.0	18.0	16.5	17.2	17.2	16.5	16.5	17.2	15.7	15.7
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: P242750

CATALOG NUMBER: S124RDRP-S1195D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1857.4	1857.4	1857.4	1857.4
2.5°	1751.9	1753.4	1748.1	1746.7
5°	1644.9	1643.4	1639.6	1640.4
7.5°	1552.1	1546.8	1550.6	1544.6
10°	1468.3	1460.0	1453.3	1447.3
12.5°	1353.8	1347.0	1337.3	1341.0
15°	1246.8	1235.5	1217.6	1219.8
17.5°	1151.0	1152.5	1142.0	1145.0
20°	1079.9	1074.6	1075.4	1073.1
22.5°	1030.5	1023.7	1017.0	1011.8
25°	973.6	969.1	962.4	960.9
27.5°	923.5	922.7	919.7	916.0
30°	880.8	879.3	877.8	875.6
32.5°	842.6	841.9	840.4	841.1
35°	806.7	806.0	804.5	803.7
37.5°	773.0	775.3	773.8	773.8
40°	737.9	738.6	740.1	739.4
42.5°	708.7	708.7	710.9	707.9
45°	672.8	677.3	676.5	676.5
47.5°	634.6	639.8	640.6	640.6
50°	597.2	595.7	597.9	597.2
52.5°	551.5	552.3	551.5	550.8
55°	504.4	505.1	503.6	504.4
57.5°	454.2	451.3	453.5	452.0
60°	399.6	393.6	392.1	389.1
62.5°	338.3	334.5	328.5	332.3
65°	285.1	282.1	279.9	282.9
67.5°	242.5	241.0	241.0	239.5
70°	210.3	208.0	208.0	206.5
72.5°	177.4	175.1	175.9	175.1
75°	136.2	132.5	132.5	133.2
77.5°	106.3	105.5	107.0	104.8
80°	83.1	82.3	81.6	83.8
82.5°	59.9	59.9	59.9	62.9
85°	38.9	37.4	38.9	37.4
87.5°	17.2	16.5	15.7	16.5
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242750
 CATALOG NUMBER: S124RDRP-S1195D840-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	18.84	20.37	19.21	20.68	20.99	20.66	22.18	21.03	22.50	22.81
	3H	20.07	21.44	20.45	21.76	22.13	22.12	23.48	22.49	23.81	24.17
	4H	20.50	21.78	20.90	22.13	22.51	22.63	23.91	23.03	24.26	24.64
	6H	20.78	21.96	21.19	22.33	22.72	22.98	24.17	23.40	24.53	24.93
	8H	20.86	21.98	21.28	22.37	22.77	23.09	24.21	23.51	24.60	25.00
	12H	20.91	21.98	21.34	22.37	22.80	23.14	24.22	23.58	24.60	25.03
4H	2H	20.10	21.38	20.50	21.73	22.11	21.17	22.45	21.57	22.80	23.18
	3H	21.34	22.40	21.75	22.80	23.20	22.91	23.97	23.32	24.37	24.77
	4H	21.80	22.76	22.24	23.17	23.61	23.54	24.49	23.97	24.91	25.35
	6H	22.13	22.96	22.58	23.40	23.86	23.99	24.82	24.45	25.27	25.73
	8H	22.22	23.00	22.68	23.44	23.91	24.13	24.91	24.59	25.35	25.82
	12H	22.29	22.98	22.77	23.46	23.93	24.22	24.91	24.70	25.39	25.86
8H	4H	22.21	22.98	22.67	23.43	23.89	23.65	24.43	24.11	24.87	25.34
	6H	22.59	23.23	23.09	23.72	24.20	24.19	24.83	24.69	25.32	25.80
	8H	22.73	23.30	23.24	23.81	24.30	24.38	24.96	24.90	25.47	25.96
	12H	22.84	23.35	23.35	23.84	24.40	24.53	25.04	25.04	25.53	26.09
12H	4H	22.24	22.93	22.72	23.41	23.88	23.64	24.33	24.12	24.81	25.28
	6H	22.64	23.22	23.15	23.72	24.21	24.18	24.76	24.69	25.27	25.75
	8H	22.82	23.33	23.33	23.82	24.38	24.41	24.92	24.92	25.41	25.98