

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: P243620

Luminaire Tested: S124RDRP-H1195D935-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243620
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-H1195D935-X4F0-XX-UDD-A-W
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

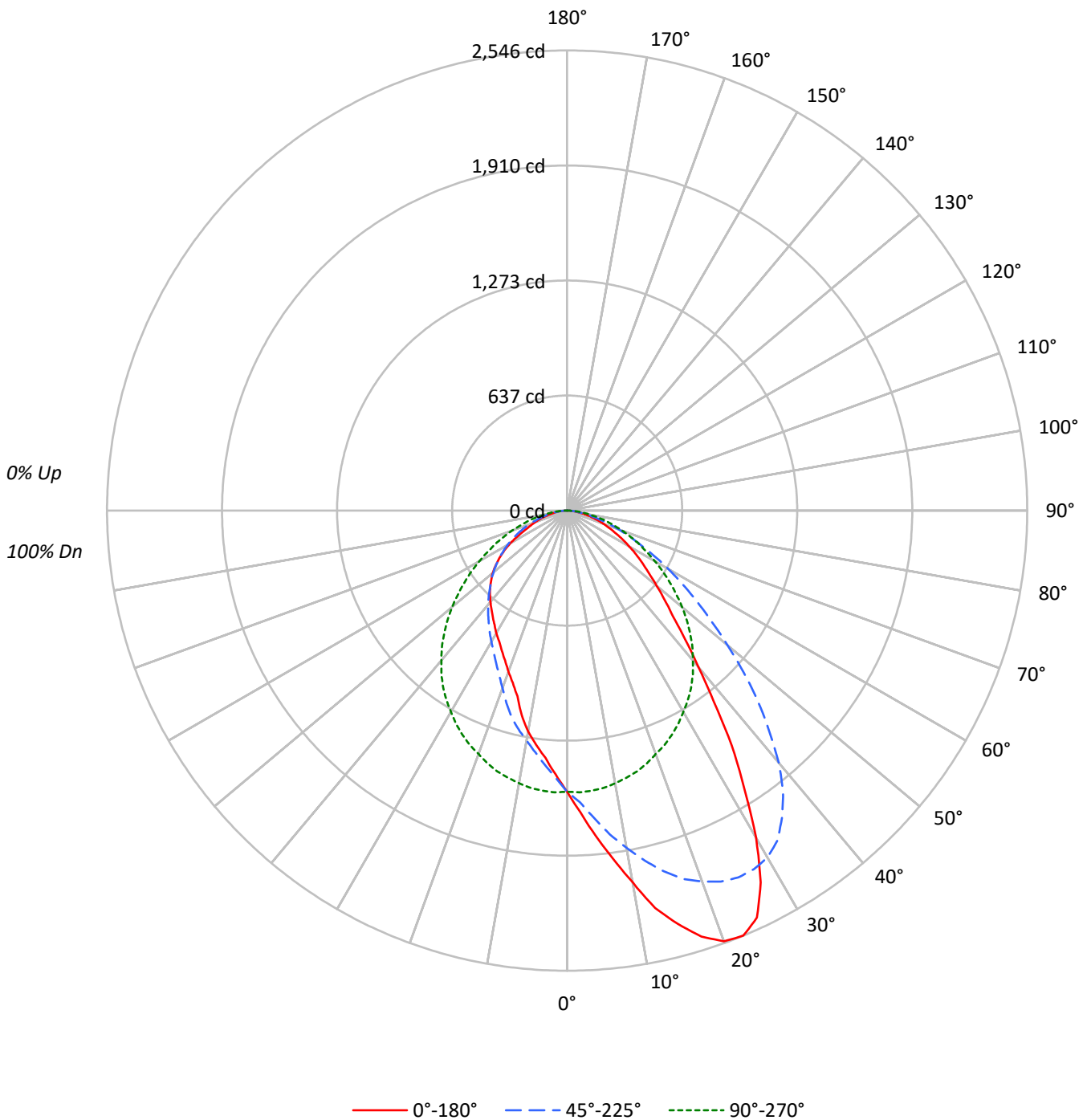
Lumens per Lamp: N/A
Luminaire Lumens: 4013.4 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.23 / 1.39
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')
CIE Type: Direct

Input Watts (W): 37.7
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°	13822	13822	13822	13822	13822
5°	16101	15231	13881	12600	12255
10°	18856	17103	13822	11658	11205
15°	21789	19013	13753	10894	9785
20°	23989	20650	13558	9893	8970
25°	24374	21969	13435	9128	8386
30°	21456	22748	13195	8590	8043
35°	17216	22493	12972	8207	7780
40°	13097	21129	12556	7877	7658
45°	10399	18772	12096	7604	7566
50°	8926	16003	11497	7361	7436
55°	7883	13588	10755	7104	7076
60°	7061	11486	9979	6782	6480
65°	6215	9450	9221	6318	5452
70°	5541	7789	8374	5790	4909
75°	4825	6113	7611	5097	4369
80°	4090	4679	6542	4310	4029
85°	3580	3825	5620	4202	4080

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 20203 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.9	3.8
10°-20°	457.6	11.4
20°-30°	714.1	17.8
30°-40°	796.3	19.8
40°-50°	715.8	17.8
50°-60°	565.6	14.1
60°-70°	375.7	9.4
70°-80°	188.3	4.7
80°-90°	49.1	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°	1322.6	33.0
0°-40°	2118.9	52.8
0°-60°	3400.4	84.7
0°-90°	4013.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4013.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1555	1555	1555	1555	1555	
5°	1804	1707	1556	1412	1373	181
15°	2368	2066	1494	1184	1063	673
25°	2485	2240	1370	931	855	1112
35°	1586	2073	1195	756	717	986
45°	827	1493	962	605	602	655
55°	509	877	694	458	457	458
65°	296	449	438	300	259	296
75°	140	178	222	148	127	150
85°	35	38	55	41	40	40
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°	1555.0	1555.0	1555.0	1555.0	1555.0	1555.0	1555.0	1555.0	1555.0	1555.0	1555.0
2.5°	1670.1	1664.0	1663.4	1655.6	1655.0	1647.1	1644.7	1638.0	1624.7	1614.4	1615.0
5°	1804.5	1799.7	1799.1	1791.2	1788.8	1779.1	1764.0	1745.8	1724.6	1707.0	1695.5
7.5°	1942.6	1951.1	1942.0	1942.0	1924.4	1912.9	1883.3	1868.1	1831.8	1806.4	1779.7
10°	2089.1	2097.0	2093.4	2086.1	2063.1	2039.5	2008.6	1978.9	1934.7	1894.8	1868.1
12.5°	2252.6	2229.0	2244.2	2221.8	2203.0	2165.4	2135.8	2076.4	2041.3	1983.2	1931.1
15°	2367.7	2358.6	2358.0	2342.9	2322.3	2281.1	2249.0	2187.2	2127.3	2066.1	2007.4
17.5°	2470.6	2471.8	2463.4	2439.1	2412.5	2372.5	2328.9	2273.8	2205.4	2137.6	2067.9
20°	2536.0	2536.6	2530.6	2517.9	2488.8	2452.5	2407.7	2335.6	2258.1	2183.0	2113.4
22.5°	2545.7	2547.5	2545.7	2537.9	2517.9	2488.2	2447.0	2385.9	2307.7	2221.8	2138.8
25°	2485.2	2491.2	2491.8	2502.7	2492.4	2480.9	2450.7	2399.2	2327.1	2239.9	2149.7
27.5°	2319.3	2336.2	2352.0	2371.3	2388.9	2404.6	2407.1	2379.8	2318.0	2236.9	2150.9
30°	2090.4	2110.3	2141.8	2162.4	2216.9	2251.4	2298.1	2308.4	2278.7	2216.3	2133.3
32.5°	1823.9	1845.1	1857.2	1925.0	2003.2	2059.5	2137.0	2183.0	2194.5	2164.8	2097.0
35°	1586.5	1590.2	1599.3	1676.2	1753.7	1839.1	1935.3	2015.3	2069.8	2072.8	2039.5
37.5°	1332.2	1336.4	1372.2	1430.9	1498.1	1592.0	1702.8	1816.6	1916.6	1962.6	1952.9
40°	1128.7	1127.5	1165.7	1216.5	1281.9	1379.4	1493.9	1618.0	1724.6	1820.9	1843.9
42.5°	964.0	968.3	1001.0	1030.6	1093.6	1162.0	1284.4	1413.4	1550.2	1655.6	1725.8
45°	827.2	838.1	860.5	888.3	935.6	998.5	1098.5	1226.8	1366.7	1493.3	1577.5
47.5°	732.7	735.7	747.2	781.8	813.3	864.1	949.5	1058.5	1182.6	1324.3	1435.1
50°	645.5	652.8	657.0	677.6	708.5	756.9	822.9	904.1	1027.0	1157.2	1295.9
52.5°	570.4	574.7	582.5	601.3	625.5	659.4	711.5	783.0	885.3	1005.8	1136.6
55°	508.7	509.3	517.1	530.5	549.2	575.3	624.9	676.4	767.2	876.8	995.5
57.5°	453.0	449.3	456.6	464.5	482.6	505.0	537.1	589.8	660.7	753.9	861.1
60°	397.2	400.3	399.7	408.7	418.4	440.8	468.1	502.6	560.7	646.1	737.0
62.5°	345.2	344.6	350.6	356.1	362.7	380.9	403.3	431.8	477.2	540.1	628.0
65°	295.5	296.7	301.6	305.8	313.1	324.6	341.5	364.5	400.9	449.3	523.2
67.5°	250.7	254.9	257.4	258.6	265.2	273.7	288.2	307.0	331.8	370.6	432.4
70°	213.2	214.4	215.6	219.8	222.8	227.7	238.6	248.9	271.3	299.7	344.6
72.5°	178.0	176.8	180.5	181.7	182.9	187.7	194.4	199.8	214.4	238.6	266.4
75°	140.5	141.1	141.7	143.5	148.4	149.0	152.0	158.0	168.3	178.0	196.8
77.5°	105.4	107.2	106.6	108.4	110.2	112.0	113.2	118.7	126.0	133.8	142.9
80°	79.9	79.9	79.9	81.1	79.9	84.2	84.2	86.0	87.8	91.4	98.1
82.5°	54.5	55.7	56.3	56.9	57.5	57.5	58.1	59.3	61.8	63.0	64.8
85°	35.1	33.9	34.5	34.5	34.5	34.5	35.7	36.9	36.9	37.5	39.4
87.5°	15.7	15.7	15.7	15.7	15.1	15.7	16.3	16.3	17.0	17.0	18.2
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°	1555.0	1555.0	1555.0	1555.0	1555.0	1555.0	1555.0	1555.0	1555.0	1555.0	1555.0
2.5°	1611.4	1609.5	1600.5	1590.8	1581.7	1572.6	1569.6	1560.5	1549.6	1539.9	1529.0
5°	1683.4	1668.9	1648.9	1628.3	1607.1	1587.7	1572.6	1555.7	1536.3	1513.3	1495.1
7.5°	1756.1	1729.4	1696.7	1666.5	1630.1	1601.1	1572.0	1547.8	1519.9	1487.2	1462.4
10°	1826.9	1782.7	1742.8	1694.9	1648.9	1608.9	1572.0	1531.4	1494.5	1459.4	1424.9
12.5°	1883.3	1839.1	1781.5	1722.8	1663.4	1611.4	1561.7	1513.9	1467.8	1425.5	1387.3
15°	1947.4	1883.9	1813.0	1748.2	1667.1	1602.9	1546.0	1494.5	1441.8	1390.3	1348.6
17.5°	1994.7	1919.6	1831.8	1757.3	1679.2	1599.3	1530.8	1466.0	1405.5	1351.6	1308.6
20°	2031.0	1942.0	1854.2	1759.7	1666.5	1584.7	1507.8	1433.3	1372.2	1313.4	1268.0
22.5°	2046.8	1952.9	1855.4	1753.1	1653.8	1561.1	1481.2	1404.3	1335.2	1274.7	1222.0
25°	2053.4	1950.5	1849.3	1733.1	1632.6	1538.1	1449.1	1369.8	1298.9	1230.5	1178.4
27.5°	2048.0	1937.8	1821.5	1711.9	1598.0	1505.4	1410.9	1330.4	1256.5	1190.5	1132.4
30°	2033.4	1908.7	1793.0	1670.1	1560.5	1463.0	1371.0	1285.6	1211.1	1143.9	1086.4
32.5°	1995.9	1876.0	1744.6	1624.7	1506.6	1410.3	1326.8	1242.6	1166.9	1096.6	1040.9
35°	1949.3	1831.8	1694.3	1569.0	1452.1	1354.6	1270.4	1195.4	1120.9	1046.4	989.5
37.5°	1890.5	1771.2	1638.6	1503.6	1389.1	1294.7	1217.8	1142.1	1068.2	999.8	936.2
40°	1811.2	1702.2	1569.0	1433.3	1318.3	1227.4	1151.8	1082.1	1016.7	949.5	881.1
42.5°	1712.5	1629.5	1492.1	1358.2	1245.6	1155.4	1088.2	1025.8	962.8	893.8	832.0
45°	1607.1	1536.3	1411.5	1276.5	1169.3	1081.5	1017.3	962.2	902.9	841.7	776.9
47.5°	1488.4	1435.8	1328.0	1194.1	1081.5	1006.4	947.1	896.8	842.9	788.4	725.4
50°	1354.6	1322.5	1230.5	1108.8	1001.6	925.3	876.2	831.4	785.4	730.9	677.0
52.5°	1220.8	1214.7	1128.7	1021.6	920.4	849.6	801.7	760.6	723.0	671.6	626.1
55°	1080.3	1098.5	1027.0	928.3	838.1	769.7	727.3	694.0	661.3	617.7	574.1
57.5°	955.6	976.1	927.1	836.3	752.1	694.0	657.6	627.3	598.9	558.9	529.9
60°	817.5	855.0	829.0	746.0	671.6	619.5	585.6	561.3	537.7	503.2	477.8
62.5°	708.5	734.5	719.4	657.6	591.6	549.2	519.0	496.5	477.8	451.1	426.3
65°	591.6	624.3	616.4	575.9	517.7	479.0	456.0	438.4	419.0	397.8	377.3
67.5°	486.3	520.2	518.3	490.5	447.5	415.4	393.6	380.9	365.1	344.6	331.8
70°	391.2	422.7	423.9	410.0	379.7	349.4	333.7	322.2	310.0	294.9	285.8
72.5°	304.0	332.4	337.3	330.6	311.3	291.3	277.3	269.5	259.2	246.5	238.6
75°	227.1	247.7	259.2	256.1	248.3	235.0	227.1	221.6	211.3	202.3	195.6
77.5°	161.7	178.0	189.5	194.4	190.7	185.3	178.0	173.8	162.9	158.7	155.0
80°	108.4	122.9	133.2	136.2	138.1	136.9	130.2	127.8	122.3	120.5	116.9
82.5°	66.6	74.5	81.7	89.6	93.3	93.3	89.6	90.2	85.4	83.0	81.7
85°	40.6	42.4	43.6	49.7	54.5	56.3	54.5	55.1	53.3	51.5	49.7
87.5°	18.8	18.8	19.4	20.6	21.8	25.4	26.6	28.5	26.0	26.0	21.8
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°	1555.0	1555.0	1555.0	1555.0	1555.0	1555.0	1555.0	1555.0	1555.0	1555.0	1555.0
2.5°	1522.3	1514.5	1508.4	1498.7	1490.9	1478.1	1473.9	1473.9	1476.3	1473.3	1476.3
5°	1482.4	1467.8	1452.1	1438.2	1423.0	1412.1	1401.2	1398.8	1397.6	1390.3	1390.9
7.5°	1442.4	1423.0	1403.1	1384.9	1366.1	1349.2	1337.7	1332.8	1328.6	1323.7	1318.3
10°	1399.4	1377.0	1353.4	1332.8	1314.6	1291.6	1280.1	1276.5	1264.4	1262.0	1253.5
12.5°	1354.0	1331.0	1307.4	1280.7	1263.2	1240.8	1223.8	1215.9	1204.4	1196.0	1183.2
15°	1318.3	1289.2	1257.7	1231.7	1208.7	1183.8	1160.8	1145.7	1130.6	1106.9	1095.4
17.5°	1274.1	1240.8	1213.5	1185.7	1152.4	1116.0	1088.8	1066.4	1050.0	1030.6	1019.1
20°	1226.2	1195.4	1161.4	1122.1	1087.0	1045.8	1021.0	1002.2	989.5	978.0	971.9
22.5°	1183.8	1148.1	1101.5	1063.9	1014.9	982.2	962.2	950.1	938.0	925.9	919.8
25°	1137.8	1096.0	1039.1	993.1	956.2	930.7	911.4	899.8	887.1	879.9	870.8
27.5°	1092.4	1038.5	981.6	939.8	910.7	881.1	864.7	855.6	846.0	835.7	828.4
30°	1037.3	976.1	928.9	890.8	861.7	836.9	824.8	811.4	803.0	796.9	792.7
32.5°	979.8	921.0	878.0	845.3	816.9	798.1	783.0	774.5	767.2	760.6	755.7
35°	925.9	869.0	832.6	801.1	777.5	756.3	744.8	737.0	730.9	725.4	723.0
37.5°	872.6	824.2	784.8	760.0	735.1	718.2	707.3	700.0	696.4	690.9	691.5
40°	819.9	776.3	744.8	716.4	693.4	678.8	670.3	667.3	661.9	660.0	661.9
42.5°	772.7	732.7	702.4	675.8	655.8	641.9	635.2	631.0	629.2	628.6	629.2
45°	726.7	689.1	660.0	638.2	617.7	604.9	599.5	596.5	594.6	597.7	598.3
47.5°	680.6	646.7	620.7	595.3	578.3	569.2	563.8	561.3	563.2	564.4	568.6
50°	635.2	603.7	576.5	554.1	540.8	532.3	530.5	526.2	529.2	531.1	534.1
52.5°	589.2	560.7	536.5	515.3	501.4	495.9	491.7	489.9	494.1	494.1	497.2
55°	542.6	517.7	495.3	476.0	465.1	458.4	455.4	453.0	455.4	456.0	455.4
57.5°	499.0	475.4	451.7	435.4	426.3	419.0	416.0	414.8	414.2	416.6	416.0
60°	453.0	430.5	411.8	394.8	385.7	381.5	374.8	376.0	376.0	376.0	370.0
62.5°	406.9	384.5	368.2	356.7	345.8	338.5	337.3	335.5	331.8	331.2	323.4
65°	359.7	342.7	328.8	317.3	306.4	300.4	298.5	293.1	288.8	281.0	275.5
67.5°	316.1	304.0	287.6	277.9	268.9	261.6	254.9	250.7	242.2	234.3	229.5
70°	272.5	259.8	248.9	238.6	229.5	222.8	215.0	207.1	201.6	196.8	193.2
72.5°	228.9	218.0	208.9	199.2	189.5	182.9	176.8	170.8	168.3	165.9	164.1
75°	188.3	178.0	169.6	161.7	156.2	148.4	145.3	142.9	140.5	137.5	133.8
77.5°	149.0	141.1	134.4	127.8	122.9	118.7	116.3	109.0	102.9	101.7	100.5
80°	110.8	104.8	100.5	95.7	90.2	84.2	82.4	79.9	78.7	78.7	79.3
82.5°	77.5	73.9	69.0	64.8	63.0	60.6	60.6	59.9	59.3	59.9	59.9
85°	47.2	42.4	41.2	40.6	41.2	41.2	41.2	41.2	40.6	41.2	40.0
87.5°	20.6	22.4	23.0	21.2	21.8	20.6	21.2	21.2	21.2	21.8	21.2
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: P243620

CATALOG NUMBER: S124RDRP-H1195D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1555.0	1555.0	1555.0	1555.0
2.5°	1472.7	1472.7	1466.6	1461.8
5°	1389.7	1381.9	1380.7	1373.4
7.5°	1312.2	1311.0	1308.0	1308.0
10°	1250.5	1246.2	1242.0	1241.4
12.5°	1163.3	1169.3	1162.0	1160.2
15°	1087.0	1082.1	1076.1	1063.3
17.5°	1016.1	1007.0	1004.6	999.2
20°	960.4	953.7	951.3	948.3
22.5°	907.7	906.5	899.2	897.4
25°	869.0	862.9	858.1	855.0
27.5°	826.6	822.3	819.9	815.1
30°	787.8	786.6	783.6	783.6
32.5°	752.7	749.1	749.1	748.5
35°	720.6	721.8	718.2	717.0
37.5°	690.3	688.5	689.1	687.9
40°	660.7	659.4	659.4	660.0
42.5°	630.4	631.0	632.2	632.2
45°	600.1	600.7	601.9	601.9
47.5°	571.6	570.4	571.6	570.4
50°	535.3	538.9	538.3	537.7
52.5°	498.4	497.2	499.6	499.0
55°	458.4	456.6	459.0	456.6
57.5°	413.6	414.2	414.2	413.0
60°	368.8	367.0	364.5	364.5
62.5°	316.7	311.3	307.6	310.0
65°	266.4	262.2	261.0	259.2
67.5°	226.5	221.6	219.8	219.2
70°	192.0	189.5	188.9	188.9
72.5°	162.9	162.9	161.1	159.9
75°	132.6	130.2	127.2	127.2
77.5°	99.3	98.7	98.1	98.1
80°	77.5	77.5	78.1	78.7
82.5°	58.1	58.7	59.3	59.3
85°	39.4	39.4	40.0	40.0
87.5°	21.2	21.2	21.2	20.6
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P243620

CATALOG NUMBER: S124RDRP-H1195D935-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	18.46	20.00	18.83	20.31	20.63	20.16	21.70	20.53	22.01	22.32
	3H	19.70	21.08	20.08	21.40	21.76	21.64	23.02	22.02	23.35	23.71
	4H	20.13	21.42	20.53	21.77	22.15	22.19	23.48	22.58	23.83	24.20
	6H	20.41	21.60	20.82	21.97	22.36	22.57	23.77	22.99	24.13	24.53
	8H	20.49	21.63	20.92	22.02	22.42	22.69	23.83	23.12	24.22	24.62
	12H	20.55	21.64	20.98	22.02	22.45	22.77	23.86	23.20	24.24	24.67
4H	2H	19.67	20.97	20.07	21.31	21.69	20.69	21.98	21.09	22.33	22.71
	3H	20.94	22.02	21.35	22.41	22.82	22.47	23.54	22.88	23.94	24.34
	4H	21.41	22.38	21.85	22.79	23.23	23.12	24.09	23.56	24.50	24.94
	6H	21.75	22.59	22.20	23.03	23.49	23.62	24.46	24.08	24.90	25.36
	8H	21.85	22.63	22.31	23.08	23.54	23.78	24.56	24.24	25.01	25.47
	12H	21.92	22.63	22.41	23.10	23.57	23.89	24.59	24.37	25.07	25.54
8H	4H	21.82	22.61	22.29	23.05	23.52	23.25	24.04	23.71	24.48	24.95
	6H	22.22	22.87	22.72	23.36	23.84	23.85	24.50	24.34	24.99	25.47
	8H	22.37	22.95	22.88	23.46	23.95	24.07	24.65	24.58	25.16	25.65
	12H	22.49	23.00	23.00	23.50	24.06	24.25	24.76	24.76	25.25	25.82
12H	4H	21.87	22.57	22.35	23.05	23.52	23.24	23.94	23.72	24.42	24.89
	6H	22.28	22.86	22.79	23.37	23.86	23.84	24.43	24.36	24.93	25.42
	8H	22.47	22.98	22.98	23.48	24.04	24.10	24.62	24.61	25.11	25.67