

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: P243595

Luminaire Tested: S124RDRP-H1195D927-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243595
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-H1195D927-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

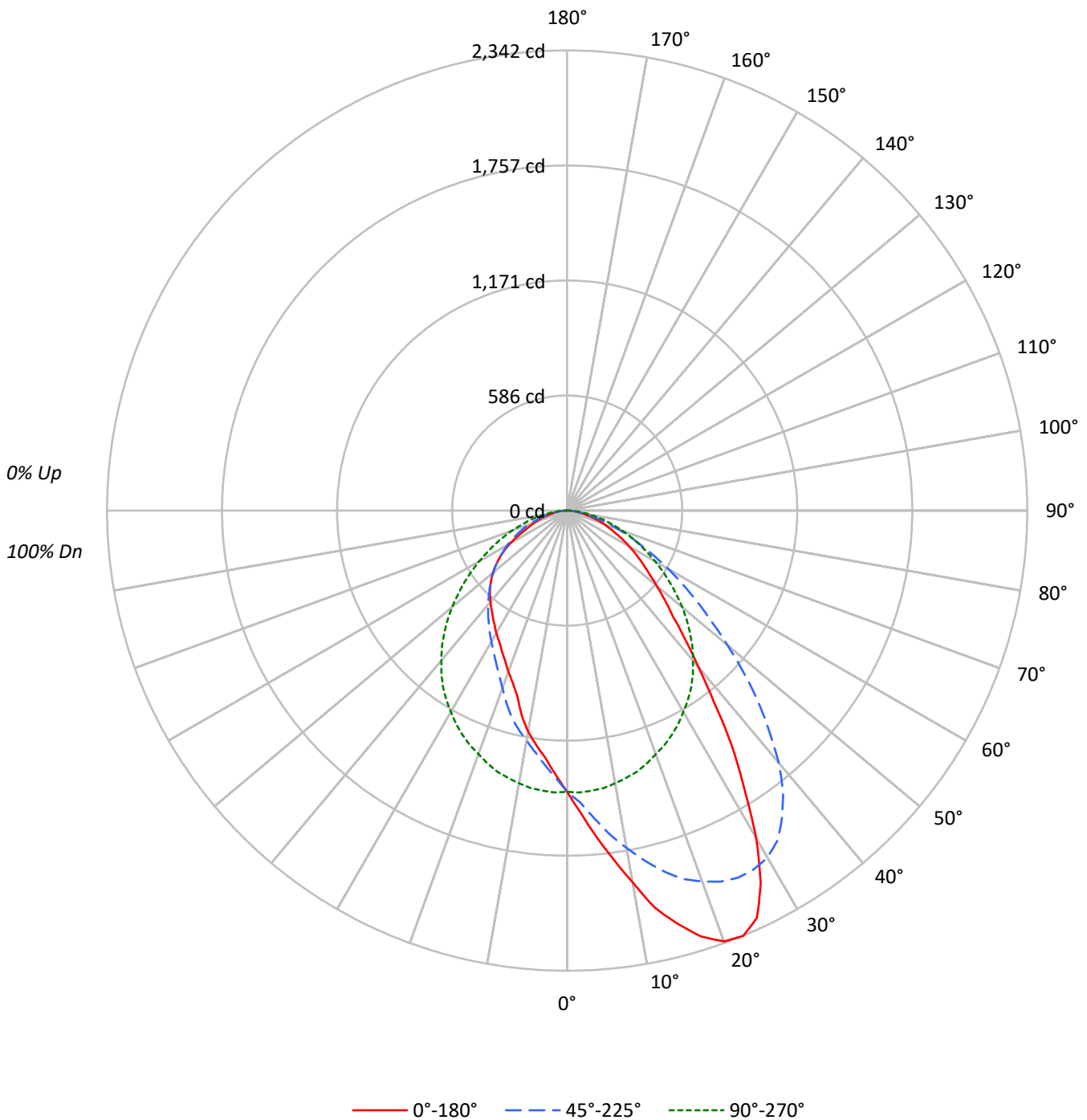
Lumens per Lamp: N/A
Luminaire Lumens: 3692.7 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.23 / 1.39
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P243595

CATALOG NUMBER: S124RDRP-H1195D927-X4F0-XX-UDD-A-W

Luminous Intensity Polar Plot



TEST NUMBER: P243595

CATALOG NUMBER: S124RDRP-H1195D927-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	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°	12718	12718	12718	12718	12718
5°	14815	14014	12771	11593	11275
10°	17350	15735	12718	10727	10310
15°	20048	17494	12653	10023	9004
20°	22072	18999	12475	9102	8253
25°	22426	20213	12361	8398	7716
30°	19741	20930	12140	7903	7400
35°	15840	20695	11934	7551	7159
40°	12050	19440	11553	7248	7047
45°	9568	17271	11129	6997	6962
50°	8213	14723	10579	6772	6841
55°	7253	12503	9895	6537	6510
60°	6498	10569	9182	6240	5963
65°	5719	8695	8485	5811	5016
70°	5097	7168	7703	5328	4517
75°	4441	5626	7003	4688	4018
80°	3762	4305	6020	3962	3706
85°	3294	3519	5171	3865	3753

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 18588 cd/sqm



TEST NUMBER: P243595

CATALOG NUMBER: S124RDRP-H1195D927-X4F0-XX-UDD-A-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.8	3.8
10°-20°	421.0	11.4
20°-30°	657.0	17.8
30°-40°	732.7	19.8
40°-50°	658.6	17.8
50°-60°	520.4	14.1
60°-70°	345.6	9.4
70°-80°	173.3	4.7
80°-90°	45.1	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°	1216.9	33.0
0°-40°	1949.6	52.8
0°-60°	3128.6	84.7
0°-90°	3692.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3692.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1431	1431	1431	1431	1431	
5°	1660	1571	1431	1299	1264	166
15°	2178	1901	1375	1089	978	619
25°	2286	2061	1260	856	787	1023
35°	1460	1907	1100	696	660	907
45°	761	1374	885	557	554	603
55°	468	807	638	422	420	422
65°	272	413	403	276	238	272
75°	129	164	204	136	117	138
85°	32	34	51	38	37	36
90°	0	0	0	0	0	



TEST NUMBER: P243595

CATALOG NUMBER: S124RDRP-H1195D927-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1430.8	1430.8	1430.8	1430.8	1430.8	1430.8	1430.8	1430.8	1430.8	1430.8	1430.8
2.5°	1536.6	1531.0	1530.5	1523.2	1522.7	1515.4	1513.2	1507.1	1494.8	1485.4	1485.9
5°	1660.3	1655.8	1655.3	1648.0	1645.8	1636.9	1623.0	1606.3	1586.8	1570.6	1560.0
7.5°	1787.3	1795.1	1786.8	1786.8	1770.6	1760.0	1732.7	1718.8	1685.4	1662.0	1637.5
10°	1922.2	1929.4	1926.1	1919.4	1898.2	1876.5	1848.1	1820.8	1780.1	1743.3	1718.8
12.5°	2072.6	2050.9	2064.8	2044.2	2026.9	1992.4	1965.1	1910.5	1878.1	1824.7	1776.7
15°	2178.5	2170.1	2169.5	2155.6	2136.7	2098.8	2069.2	2012.4	1957.3	1901.0	1846.9
17.5°	2273.2	2274.3	2266.5	2244.2	2219.7	2182.9	2142.8	2092.1	2029.1	1966.7	1902.7
20°	2333.3	2333.9	2328.3	2316.6	2289.9	2256.5	2215.2	2148.9	2077.6	2008.5	1944.4
22.5°	2342.3	2343.9	2342.3	2335.0	2316.6	2289.3	2251.4	2195.2	2123.3	2044.2	1967.8
25°	2286.5	2292.1	2292.7	2302.7	2293.2	2282.6	2254.8	2207.4	2141.1	2060.9	1977.9
27.5°	2133.9	2149.5	2164.0	2181.8	2198.0	2212.4	2214.7	2189.6	2132.8	2058.1	1979.0
30°	1923.3	1941.7	1970.6	1989.6	2039.7	2071.5	2114.4	2123.8	2096.5	2039.2	1962.8
32.5°	1678.1	1697.6	1708.8	1771.2	1843.0	1894.9	1966.2	2008.5	2019.1	1991.8	1929.4
35°	1459.7	1463.1	1471.4	1542.2	1613.5	1692.1	1780.6	1854.2	1904.3	1907.1	1876.5
37.5°	1225.7	1229.6	1262.5	1316.5	1378.4	1464.7	1566.7	1671.4	1763.4	1805.7	1796.8
40°	1038.5	1037.4	1072.5	1119.3	1179.5	1269.2	1374.5	1488.7	1586.8	1675.3	1696.5
42.5°	887.0	890.9	921.0	948.3	1006.2	1069.2	1181.7	1300.4	1426.3	1523.2	1587.9
45°	761.1	771.1	791.7	817.3	860.8	918.7	1010.7	1128.8	1257.5	1373.9	1451.4
47.5°	674.1	676.9	687.5	719.3	748.3	795.1	873.6	973.9	1088.1	1218.5	1320.4
50°	593.9	600.6	604.5	623.4	651.9	696.4	757.2	831.8	944.9	1064.7	1192.3
52.5°	524.8	528.7	536.0	553.2	575.5	606.7	654.6	720.4	814.6	925.4	1045.8
55°	468.0	468.6	475.8	488.1	505.3	529.3	575.0	622.3	705.9	806.8	916.0
57.5°	416.7	413.4	420.1	427.3	444.0	464.7	494.2	542.7	607.8	693.6	792.3
60°	365.5	368.3	367.7	376.1	385.0	405.6	430.7	462.4	515.9	594.5	678.0
62.5°	317.6	317.0	322.6	327.6	333.7	350.4	371.1	397.2	439.0	497.0	577.8
65°	271.9	273.0	277.5	281.4	288.0	298.6	314.2	335.4	368.8	413.4	481.4
67.5°	230.7	234.6	236.8	237.9	244.0	251.8	265.2	282.5	305.3	341.0	397.8
70°	196.1	197.2	198.3	202.2	205.0	209.5	219.5	229.0	249.6	275.8	317.0
72.5°	163.8	162.7	166.0	167.1	168.3	172.7	178.8	183.9	197.2	219.5	245.1
75°	129.3	129.8	130.4	132.0	136.5	137.1	139.8	145.4	154.9	163.8	181.1
77.5°	96.9	98.6	98.1	99.7	101.4	103.1	104.2	109.2	115.9	123.1	131.5
80°	73.5	73.5	73.5	74.7	73.5	77.4	77.4	79.1	80.8	84.1	90.3
82.5°	50.1	51.3	51.8	52.4	52.9	52.9	53.5	54.6	56.8	57.9	59.6
85°	32.3	31.2	31.8	31.8	31.8	31.8	32.9	34.0	34.0	34.5	36.2
87.5°	14.5	14.5	14.5	14.5	13.9	14.5	15.0	15.0	15.6	15.6	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: P243595

CATALOG NUMBER: S124RDRP-H1195D927-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1430.8	1430.8	1430.8	1430.8	1430.8	1430.8	1430.8	1430.8	1430.8	1430.8	1430.8
2.5°	1482.6	1480.9	1472.5	1463.6	1455.3	1446.9	1444.1	1435.8	1425.7	1416.8	1406.8
5°	1548.9	1535.5	1517.1	1498.2	1478.7	1460.8	1446.9	1431.3	1413.5	1392.3	1375.6
7.5°	1615.7	1591.2	1561.1	1533.3	1499.8	1473.1	1446.4	1424.1	1398.4	1368.4	1345.5
10°	1680.9	1640.2	1603.5	1559.5	1517.1	1480.3	1446.4	1409.0	1375.0	1342.7	1311.0
12.5°	1732.7	1692.1	1639.1	1585.1	1530.5	1482.6	1436.9	1392.9	1350.5	1311.5	1276.4
15°	1791.8	1733.3	1668.1	1608.5	1533.8	1474.8	1422.4	1375.0	1326.6	1279.2	1240.8
17.5°	1835.2	1766.2	1685.4	1616.8	1545.0	1471.4	1408.5	1348.9	1293.1	1243.6	1204.0
20°	1868.7	1786.8	1706.0	1619.1	1533.3	1458.1	1387.3	1318.8	1262.5	1208.5	1166.7
22.5°	1883.2	1796.8	1707.1	1612.9	1521.6	1436.3	1362.8	1292.0	1228.5	1172.8	1124.3
25°	1889.3	1794.6	1701.5	1594.6	1502.1	1415.2	1333.3	1260.3	1195.1	1132.1	1084.2
27.5°	1884.3	1782.9	1675.9	1575.1	1470.3	1385.1	1298.2	1224.1	1156.1	1095.4	1041.9
30°	1870.9	1756.1	1649.7	1536.6	1435.8	1346.1	1261.4	1182.8	1114.3	1052.5	999.5
32.5°	1836.4	1726.0	1605.1	1494.8	1386.2	1297.6	1220.7	1143.3	1073.6	1009.0	957.7
35°	1793.5	1685.4	1558.9	1443.6	1336.0	1246.3	1168.9	1099.8	1031.3	962.8	910.4
37.5°	1739.4	1629.7	1507.6	1383.4	1278.1	1191.2	1120.4	1050.8	982.8	919.9	861.4
40°	1666.4	1566.1	1443.6	1318.8	1212.9	1129.3	1059.7	995.6	935.5	873.6	810.7
42.5°	1575.6	1499.3	1372.8	1249.7	1146.1	1063.0	1001.2	943.8	885.9	822.4	765.5
45°	1478.7	1413.5	1298.7	1174.5	1075.9	995.1	936.0	885.3	830.7	774.4	714.8
47.5°	1369.5	1321.0	1221.8	1098.7	995.1	926.0	871.4	825.1	775.6	725.4	667.5
50°	1246.3	1216.8	1132.1	1020.1	921.5	851.3	806.2	765.0	722.6	672.5	622.9
52.5°	1123.2	1117.6	1038.5	939.9	846.9	781.7	737.7	699.8	665.2	617.9	576.1
55°	994.0	1010.7	944.9	854.1	771.1	708.1	669.1	638.5	608.4	568.3	528.2
57.5°	879.2	898.1	853.0	769.4	692.0	638.5	605.1	577.2	551.0	514.2	487.5
60°	752.2	786.7	762.7	686.4	617.9	570.0	538.8	516.5	494.7	463.0	439.6
62.5°	651.9	675.8	661.9	605.1	544.3	505.3	477.5	456.9	439.6	415.1	392.2
65°	544.3	574.4	567.2	529.8	476.4	440.7	419.5	403.4	385.5	366.0	347.1
67.5°	447.4	478.6	476.9	451.3	411.7	382.2	362.1	350.4	336.0	317.0	305.3
70°	359.9	388.9	390.0	377.2	349.3	321.5	307.0	296.4	285.3	271.3	263.0
72.5°	279.7	305.9	310.3	304.2	286.4	268.0	255.2	247.9	238.5	226.8	219.5
75°	208.9	227.9	238.5	235.7	228.4	216.2	208.9	203.9	194.4	186.1	180.0
77.5°	148.8	163.8	174.4	178.8	175.5	170.5	163.8	159.9	149.9	146.0	142.6
80°	99.7	113.1	122.6	125.4	127.0	125.9	119.8	117.6	112.5	110.9	107.5
82.5°	61.3	68.5	75.2	82.5	85.8	85.8	82.5	83.0	78.6	76.3	75.2
85°	37.3	39.0	40.1	45.7	50.1	51.8	50.1	50.7	49.0	47.4	45.7
87.5°	17.3	17.3	17.8	18.9	20.1	23.4	24.5	26.2	24.0	24.0	20.1
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: P243595

CATALOG NUMBER: S124RDRP-H1195D927-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1430.8	1430.8	1430.8	1430.8	1430.8	1430.8	1430.8	1430.8	1430.8	1430.8	1430.8
2.5°	1400.7	1393.4	1387.9	1378.9	1371.7	1360.0	1356.1	1356.1	1358.3	1355.5	1358.3
5°	1363.9	1350.5	1336.0	1323.2	1309.3	1299.3	1289.2	1287.0	1285.9	1279.2	1279.8
7.5°	1327.1	1309.3	1290.9	1274.2	1256.9	1241.3	1230.7	1226.3	1222.4	1217.9	1212.9
10°	1287.6	1267.0	1245.2	1226.3	1209.6	1188.4	1177.8	1174.5	1163.3	1161.1	1153.3
12.5°	1245.8	1224.6	1202.9	1178.4	1162.2	1141.6	1126.0	1118.8	1108.2	1100.4	1088.7
15°	1212.9	1186.2	1157.2	1133.2	1112.1	1089.2	1068.1	1054.1	1040.2	1018.5	1007.9
17.5°	1172.2	1141.6	1116.5	1090.9	1060.3	1026.8	1001.8	981.1	966.1	948.3	937.7
20°	1128.2	1099.8	1068.6	1032.4	1000.1	962.2	939.4	922.1	910.4	899.8	894.2
22.5°	1089.2	1056.4	1013.5	978.9	933.8	903.7	885.3	874.2	863.0	851.9	846.3
25°	1046.9	1008.4	956.1	913.7	879.7	856.3	838.5	827.9	816.2	809.5	801.2
27.5°	1005.1	955.5	903.1	864.7	838.0	810.7	795.6	787.3	778.3	768.9	762.2
30°	954.4	898.1	854.7	819.6	792.8	770.0	758.8	746.6	738.8	733.2	729.3
32.5°	901.5	847.4	807.9	777.8	751.6	734.3	720.4	712.6	705.9	699.8	695.3
35°	851.9	799.5	766.1	737.1	715.4	695.9	685.3	678.0	672.5	667.5	665.2
37.5°	802.9	758.3	722.1	699.2	676.4	660.8	650.7	644.1	640.7	635.7	636.3
40°	754.4	714.3	685.3	659.1	637.9	624.6	616.8	614.0	609.0	607.3	609.0
42.5°	710.9	674.1	646.3	621.8	603.4	590.6	584.4	580.5	578.9	578.3	578.9
45°	668.6	634.0	607.3	587.2	568.3	556.6	551.6	548.8	547.1	549.9	550.5
47.5°	626.2	595.0	571.1	547.7	532.1	523.7	518.7	516.5	518.1	519.3	523.2
50°	584.4	555.5	530.4	509.8	497.5	489.7	488.1	484.2	486.9	488.6	491.4
52.5°	542.1	515.9	493.6	474.1	461.3	456.3	452.4	450.7	454.6	454.6	457.4
55°	499.2	476.4	455.7	437.9	427.9	421.8	419.0	416.7	419.0	419.5	419.0
57.5°	459.1	437.4	415.6	400.6	392.2	385.5	382.8	381.6	381.1	383.3	382.8
60°	416.7	396.1	378.9	363.3	354.9	351.0	344.9	346.0	346.0	346.0	340.4
62.5°	374.4	353.8	338.7	328.2	318.1	311.4	310.3	308.7	305.3	304.8	297.5
65°	330.9	315.3	302.5	291.9	281.9	276.3	274.7	269.7	265.8	258.5	253.5
67.5°	290.8	279.7	264.6	255.7	247.4	240.7	234.6	230.7	222.9	215.6	211.2
70°	250.7	239.0	229.0	219.5	211.2	205.0	197.8	190.5	185.5	181.1	177.7
72.5°	210.6	200.6	192.2	183.3	174.4	168.3	162.7	157.1	154.9	152.7	151.0
75°	173.3	163.8	156.0	148.8	143.7	136.5	133.7	131.5	129.3	126.5	123.1
77.5°	137.1	129.8	123.7	117.6	113.1	109.2	107.0	100.3	94.7	93.6	92.5
80°	102.0	96.4	92.5	88.0	83.0	77.4	75.8	73.5	72.4	72.4	73.0
82.5°	71.3	68.0	63.5	59.6	57.9	55.7	55.7	55.2	54.6	55.2	55.2
85°	43.5	39.0	37.9	37.3	37.9	37.9	37.9	37.9	37.3	37.9	36.8
87.5°	18.9	20.6	21.2	19.5	20.1	18.9	19.5	19.5	19.5	20.1	19.5
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: P243595

CATALOG NUMBER: S124RDRP-H1195D927-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1430.8	1430.8	1430.8	1430.8
2.5°	1355.0	1355.0	1349.4	1345.0
5°	1278.7	1271.4	1270.3	1263.6
7.5°	1207.3	1206.2	1203.4	1203.4
10°	1150.5	1146.6	1142.7	1142.2
12.5°	1070.3	1075.9	1069.2	1067.5
15°	1000.1	995.6	990.1	978.4
17.5°	934.9	926.5	924.3	919.3
20°	883.6	877.5	875.3	872.5
22.5°	835.2	834.1	827.4	825.7
25°	799.5	793.9	789.5	786.7
27.5°	760.5	756.6	754.4	749.9
30°	724.9	723.7	721.0	721.0
32.5°	692.5	689.2	689.2	688.6
35°	663.0	664.1	660.8	659.7
37.5°	635.1	633.5	634.0	632.9
40°	607.8	606.7	606.7	607.3
42.5°	580.0	580.5	581.7	581.7
45°	552.1	552.7	553.8	553.8
47.5°	525.9	524.8	525.9	524.8
50°	492.5	495.9	495.3	494.7
52.5°	458.5	457.4	459.6	459.1
55°	421.8	420.1	422.3	420.1
57.5°	380.5	381.1	381.1	380.0
60°	339.3	337.6	335.4	335.4
62.5°	291.4	286.4	283.0	285.3
65°	245.1	241.2	240.1	238.5
67.5°	208.4	203.9	202.2	201.7
70°	176.6	174.4	173.8	173.8
72.5°	149.9	149.9	148.2	147.1
75°	122.0	119.8	117.0	117.0
77.5°	91.4	90.8	90.3	90.3
80°	71.3	71.3	71.9	72.4
82.5°	53.5	54.0	54.6	54.6
85°	36.2	36.2	36.8	36.8
87.5°	19.5	19.5	19.5	18.9
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243595
 CATALOG NUMBER: S124RDRP-H1195D927-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	18.18	19.71	18.54	20.02	20.34	19.87	21.41	20.24	21.72	22.03
	3H	19.41	20.79	19.79	21.11	21.47	21.36	22.73	21.73	23.06	23.42
	4H	19.84	21.13	20.24	21.48	21.86	21.90	23.19	22.30	23.54	23.91
	6H	20.12	21.31	20.53	21.68	22.07	22.28	23.48	22.70	23.84	24.24
	8H	20.20	21.34	20.63	21.73	22.13	22.40	23.54	22.83	23.93	24.33
	12H	20.26	21.35	20.69	21.73	22.16	22.48	23.57	22.91	23.95	24.38
4H	2H	19.38	20.68	19.78	21.02	21.40	20.40	21.69	20.80	22.04	22.42
	3H	20.65	21.73	21.06	22.13	22.53	22.18	23.25	22.59	23.65	24.05
	4H	21.12	22.09	21.56	22.50	22.94	22.83	23.80	23.27	24.21	24.65
	6H	21.46	22.30	21.91	22.74	23.20	23.33	24.17	23.79	24.61	25.07
	8H	21.56	22.34	22.02	22.79	23.25	23.49	24.27	23.95	24.72	25.18
	12H	21.63	22.34	22.12	22.81	23.28	23.60	24.30	24.08	24.78	25.25
8H	4H	21.53	22.32	22.00	22.76	23.23	22.96	23.75	23.43	24.19	24.66
	6H	21.93	22.58	22.43	23.07	23.55	23.56	24.21	24.06	24.70	25.18
	8H	22.08	22.66	22.59	23.17	23.66	23.78	24.36	24.29	24.87	25.36
	12H	22.20	22.71	22.71	23.21	23.77	23.96	24.47	24.47	24.97	25.53
12H	4H	21.58	22.28	22.06	22.76	23.23	22.95	23.65	23.43	24.13	24.60
	6H	21.99	22.57	22.50	23.08	23.57	23.55	24.14	24.07	24.65	25.13
	8H	22.18	22.70	22.69	23.19	23.75	23.81	24.33	24.32	24.82	25.39