

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: P243522

Luminaire Tested: S124DRP-H1195D940-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P243522  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-60)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124DRP-H1195D940-X4F0-XX-UDD-A-W  
Description: DEFINE 4 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: (184) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

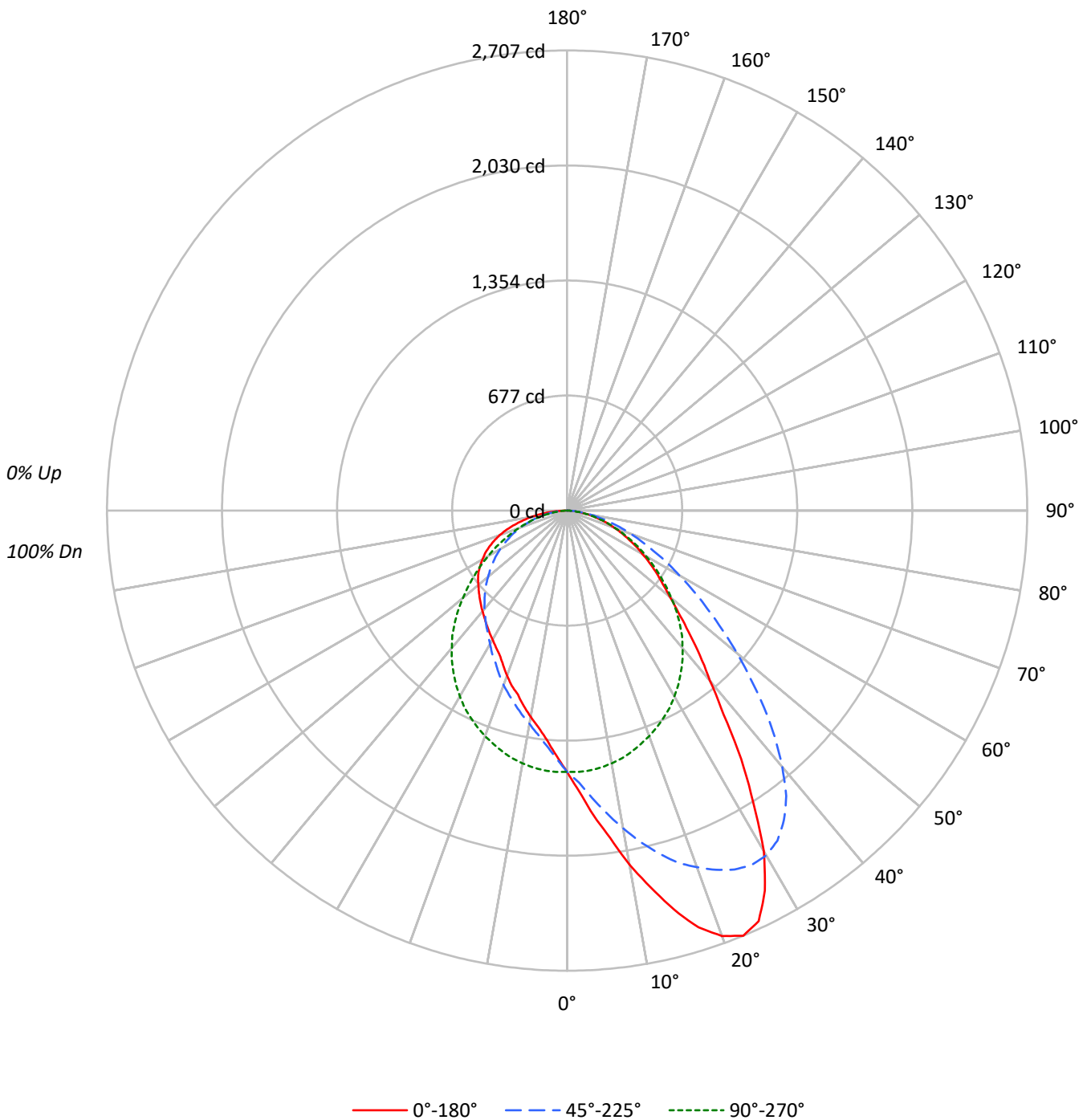
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4405.8 lumens  
Efficiency: N/A  
Efficacy: 116.9 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.22 / 1.45  
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: P243522

CATALOG NUMBER: S124DRP-H1195D940-X4F0-XX-UDD-A-W

### Luminous Intensity Polar Plot



TEST NUMBER: P243522

CATALOG NUMBER: S124DRP-H1195D940-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	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85					85			
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72					72			
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61					61			
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53					53			
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46					46			
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41					41			
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	36					36			
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32					32			
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29					29			
10	54	41	34	29	53	41	34	28	40	33	28	39	33	28	38	32	28	26					26			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	13658	13658	13658	13658	13658
5°	16072	15154	13693	12379	12087
10°	19099	17135	13631	11503	11129
15°	22369	19218	13511	10873	10308
20°	25189	21119	13354	10329	9776
25°	26142	22851	13176	9743	9202
30°	23740	24036	12951	9308	9000
35°	19369	24132	12644	8997	8943
40°	15166	22843	12248	8784	8980
45°	12693	20600	11755	8586	9145
50°	10893	18013	11066	8395	9419
55°	9952	15609	10321	8251	9875
60°	9120	13547	9556	8117	10235
65°	8363	11741	8746	7849	10632
70°	7693	10284	7888	7597	10952
75°	6848	8854	6934	7085	10942
80°	5713	7192	5682	6547	10914
85°	4345	5375	4284	5885	10229

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 50°  
 Vertical Angle: 45°  
 Luminance: 21530 cd/sqm



TEST NUMBER: P243522

CATALOG NUMBER: S124DRP-H1195D940-X4F0-XX-UDD-A-W

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.6	3.4
10°-20°	463.2	10.5
20°-30°	744.1	16.9
30°-40°	850.7	19.3
40°-50°	783.0	17.8
50°-60°	640.5	14.5
60°-70°	456.5	10.4
70°-80°	250.8	5.7
80°-90°	67.4	1.5
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°	1356.9	30.8
0°-40°	2207.6	50.1
0°-60°	3631.1	82.4
0°-90°	4405.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4405.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1536	1536	1536	1536	1536	
5°	1801	1698	1535	1387	1355	181
15°	2431	2088	1468	1182	1120	693
25°	2665	2330	1343	993	938	1196
35°	1785	2224	1165	829	824	1109
45°	1010	1639	935	683	728	788
55°	642	1007	666	532	637	576
65°	398	558	416	373	506	397
75°	199	258	202	206	319	213
85°	43	53	42	58	100	51
90°	0	0	0	0	0	



TEST NUMBER: P243522

CATALOG NUMBER: S124DRP-H1195D940-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5
2.5°	1654.4	1649.4	1646.9	1643.8	1643.1	1640.0	1633.7	1624.9	1613.7	1601.7	1601.7
5°	1801.2	1799.9	1790.5	1791.1	1779.2	1766.1	1756.0	1743.5	1719.0	1698.3	1683.9
7.5°	1941.7	1954.8	1951.7	1941.7	1924.1	1905.3	1885.2	1867.6	1822.5	1797.4	1776.7
10°	2116.0	2121.0	2112.2	2097.8	2082.1	2045.8	2019.4	1989.9	1941.0	1898.4	1860.7
12.5°	2269.0	2280.9	2265.3	2251.5	2214.5	2187.5	2161.2	2102.2	2050.8	1996.8	1942.3
15°	2430.8	2418.3	2426.4	2392.6	2366.2	2340.5	2273.4	2213.2	2154.9	2088.4	2031.3
17.5°	2571.3	2571.3	2556.3	2534.3	2506.7	2458.4	2391.3	2324.8	2260.2	2173.1	2092.2
20°	2662.9	2669.8	2652.2	2629.0	2595.8	2545.6	2492.3	2420.2	2334.2	2232.6	2141.1
22.5°	2706.8	2708.0	2701.8	2682.3	2655.3	2612.7	2558.1	2487.9	2397.0	2287.8	2191.9
25°	2665.4	2672.3	2670.4	2669.1	2655.3	2630.9	2587.0	2521.8	2439.0	2329.9	2226.4
27.5°	2519.9	2536.8	2551.2	2557.5	2572.6	2573.8	2560.6	2521.1	2453.4	2350.6	2235.2
30°	2312.9	2304.1	2343.0	2362.5	2413.9	2444.6	2466.6	2464.1	2425.2	2341.8	2232.0
32.5°	2037.0	2060.8	2088.4	2134.2	2195.0	2266.5	2320.4	2360.6	2356.8	2302.3	2210.7
35°	1784.9	1784.9	1820.0	1876.4	1941.0	2026.9	2117.3	2191.9	2237.7	2223.9	2159.3
37.5°	1511.4	1528.4	1568.5	1612.4	1691.4	1774.2	1893.4	1992.5	2088.4	2117.3	2084.0
40°	1307.0	1314.5	1357.1	1394.2	1475.1	1561.0	1660.7	1787.4	1897.8	1968.6	1973.0
42.5°	1155.2	1154.6	1172.1	1205.4	1270.6	1347.1	1455.0	1579.2	1708.4	1808.7	1855.7
45°	1009.7	1008.5	1026.6	1060.5	1106.9	1174.6	1268.1	1392.3	1524.6	1638.7	1712.7
47.5°	886.8	898.1	906.2	932.6	970.8	1028.5	1108.8	1207.9	1335.2	1463.1	1562.9
50°	787.7	792.7	810.3	822.8	865.5	905.6	970.2	1059.3	1168.4	1302.6	1410.5
52.5°	708.7	711.8	722.5	738.8	763.2	798.4	849.8	931.9	1030.4	1147.1	1258.7
55°	642.2	640.3	647.2	657.9	679.2	708.7	746.3	809.0	894.9	1007.2	1110.1
57.5°	577.0	577.0	583.2	590.8	602.7	627.1	664.2	713.7	782.7	882.4	973.3
60°	513.0	517.4	519.9	527.4	537.5	555.7	583.2	622.1	680.5	762.0	852.3
62.5°	456.6	456.6	461.0	463.5	476.6	489.8	509.9	543.1	588.9	661.6	731.9
65°	397.6	401.4	401.4	406.4	417.7	427.7	443.4	468.5	506.1	558.2	624.0
67.5°	347.4	347.4	350.6	353.1	359.4	366.3	380.1	399.5	431.5	472.9	532.4
70°	296.0	297.9	296.6	299.8	303.5	310.4	320.5	336.8	360.0	395.7	439.6
72.5°	249.6	247.1	248.4	251.5	253.4	257.8	264.0	276.6	295.4	324.2	356.2
75°	199.4	198.2	202.6	201.3	204.5	208.2	213.9	223.3	237.7	257.8	282.2
77.5°	155.5	153.7	155.5	156.8	158.0	161.2	165.6	171.2	181.2	194.4	216.4
80°	111.6	111.0	112.3	113.5	114.1	119.2	120.4	126.1	130.4	140.5	151.1
82.5°	74.0	75.3	75.9	77.1	76.5	79.0	80.3	84.0	87.8	92.8	101.0
85°	42.6	40.8	42.6	42.6	42.6	45.8	45.2	47.7	50.2	52.7	58.3
87.5°	15.1	15.1	15.7	16.3	16.3	18.2	17.6	18.8	21.3	21.3	23.2
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: P243522

CATALOG NUMBER: S124DRP-H1195D940-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5
2.5°	1598.0	1591.1	1586.1	1571.6	1562.9	1554.7	1547.2	1539.0	1530.2	1519.0	1512.1
5°	1668.8	1653.8	1631.8	1611.8	1589.2	1569.1	1552.8	1534.6	1514.6	1493.9	1475.7
7.5°	1747.2	1719.0	1685.1	1648.1	1613.0	1583.5	1552.8	1524.0	1495.7	1468.2	1442.4
10°	1825.6	1776.7	1732.2	1681.4	1635.0	1590.4	1550.3	1510.2	1475.1	1438.7	1406.1
12.5°	1898.4	1839.4	1774.2	1710.9	1648.8	1591.1	1541.5	1492.6	1447.5	1404.2	1365.9
15°	1954.2	1880.2	1803.1	1727.8	1656.3	1596.1	1531.5	1468.2	1421.1	1368.4	1326.4
17.5°	2018.2	1930.4	1853.9	1763.5	1674.5	1577.3	1508.9	1439.9	1383.5	1332.7	1290.7
20°	2060.8	1964.2	1853.9	1751.6	1660.1	1572.9	1490.7	1411.7	1352.1	1293.2	1242.4
22.5°	2094.7	1995.0	1873.3	1766.7	1651.9	1546.5	1457.5	1379.7	1309.5	1253.7	1205.4
25°	2112.2	1990.6	1874.5	1745.4	1630.6	1529.6	1429.3	1343.4	1272.5	1210.4	1169.0
27.5°	2112.9	1988.1	1850.7	1722.8	1599.9	1490.7	1391.6	1307.0	1227.3	1167.8	1118.2
30°	2109.7	1971.8	1826.9	1687.0	1564.7	1453.1	1349.6	1261.8	1189.1	1125.7	1078.7
32.5°	2089.7	1949.2	1791.1	1644.4	1511.4	1399.2	1303.8	1216.7	1138.9	1081.2	1031.7
35°	2044.5	1899.6	1741.0	1589.8	1463.8	1347.1	1253.0	1165.2	1095.6	1032.9	982.1
37.5°	1986.8	1851.3	1690.2	1532.1	1396.0	1285.7	1197.2	1114.4	1041.7	984.0	933.2
40°	1914.1	1786.7	1628.1	1463.8	1327.7	1216.0	1132.6	1055.5	993.4	934.5	884.9
42.5°	1814.3	1716.5	1553.4	1393.5	1251.2	1145.8	1064.9	1000.9	937.0	883.7	834.1
45°	1707.7	1618.7	1473.8	1315.1	1178.4	1069.9	994.0	935.1	880.5	826.6	786.4
47.5°	1589.8	1517.1	1382.9	1228.0	1093.1	997.2	922.5	869.9	819.7	778.3	738.2
50°	1449.3	1411.1	1285.7	1145.2	1014.1	915.6	854.2	800.2	763.2	723.1	685.5
52.5°	1318.9	1288.2	1185.9	1048.0	928.8	842.3	776.4	733.8	697.4	667.9	637.8
55°	1177.2	1161.5	1074.9	955.8	847.9	761.4	704.9	666.0	637.2	609.6	587.6
57.5°	1046.7	1045.5	968.9	866.7	761.4	688.0	634.0	602.1	577.0	557.5	538.7
60°	913.1	923.8	861.1	767.6	684.2	615.2	566.3	537.5	520.5	502.3	486.7
62.5°	792.1	808.4	751.3	677.9	595.8	539.3	501.7	479.8	461.0	447.8	435.9
65°	676.1	696.8	650.4	584.5	521.8	468.5	436.5	415.8	401.4	393.8	385.7
67.5°	573.8	585.1	553.8	502.3	450.3	403.9	377.5	359.4	346.8	343.7	334.3
70°	471.6	484.8	462.8	415.8	375.7	341.8	318.0	303.5	296.0	291.6	285.4
72.5°	389.5	395.1	373.2	340.5	308.6	280.3	262.8	252.1	243.3	241.5	238.3
75°	304.8	312.9	295.4	270.3	244.0	223.9	210.7	201.9	197.6	194.4	194.4
77.5°	230.2	237.1	227.0	205.1	189.4	171.8	163.1	154.9	153.0	149.9	151.1
80°	163.7	166.8	161.2	146.1	132.3	122.9	115.4	111.0	110.4	107.9	110.4
82.5°	108.5	109.1	102.9	96.0	85.3	80.3	75.3	73.4	72.7	72.7	71.5
85°	60.2	61.5	57.1	52.7	48.9	44.5	43.3	42.0	40.8	42.6	43.9
87.5°	23.2	23.8	23.2	21.3	20.1	18.8	18.2	19.4	17.6	18.8	19.4
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: P243522

CATALOG NUMBER: S124DRP-H1195D940-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5
2.5°	1501.4	1496.4	1488.9	1476.3	1467.5	1458.1	1454.4	1455.6	1451.8	1446.8	1448.1
5°	1461.9	1447.5	1434.9	1417.4	1401.0	1387.3	1382.9	1377.2	1372.2	1369.1	1365.9
7.5°	1419.9	1399.8	1381.0	1363.4	1344.6	1327.0	1320.1	1315.1	1312.6	1303.8	1300.1
10°	1379.7	1356.5	1333.9	1313.2	1293.8	1274.4	1267.5	1261.2	1252.4	1248.7	1244.3
12.5°	1337.1	1313.9	1289.4	1264.3	1244.9	1229.2	1217.3	1212.9	1204.1	1200.4	1197.9
15°	1295.7	1267.5	1248.0	1228.6	1199.1	1181.5	1176.5	1160.9	1155.8	1148.3	1143.3
17.5°	1254.3	1228.0	1199.1	1176.5	1158.3	1136.4	1124.5	1117.6	1108.2	1101.3	1091.9
20°	1213.5	1182.8	1160.2	1132.0	1111.9	1091.9	1076.8	1070.5	1062.4	1053.0	1039.8
22.5°	1174.0	1140.2	1118.2	1091.9	1066.8	1043.6	1031.0	1022.3	1005.9	1004.1	992.1
25°	1127.6	1097.5	1068.7	1041.1	1016.6	993.4	985.3	971.5	965.8	954.5	952.6
27.5°	1083.7	1051.7	1020.4	990.3	968.9	952.6	938.2	929.4	923.8	915.0	915.6
30°	1037.9	1002.8	973.3	945.7	922.5	906.9	897.4	893.1	884.9	883.7	879.3
32.5°	989.0	957.0	926.3	901.8	878.0	864.2	859.8	855.4	850.4	851.0	849.8
35°	940.1	911.9	879.3	856.7	837.2	829.1	822.2	820.9	819.1	820.3	820.3
37.5°	892.4	861.7	834.7	814.0	802.8	791.5	788.3	787.7	788.3	789.6	792.7
40°	846.0	817.8	791.5	774.5	762.0	757.0	752.6	754.5	757.0	761.4	765.1
42.5°	799.6	772.6	750.7	733.8	721.8	719.3	720.0	723.7	724.4	730.6	737.5
45°	750.7	727.5	706.8	693.6	686.1	683.0	684.2	688.0	692.4	701.2	709.9
47.5°	705.5	684.8	666.7	653.5	647.8	646.6	649.1	654.1	664.2	672.9	683.0
50°	659.8	640.9	624.0	612.1	611.5	607.1	612.7	619.0	630.9	642.8	657.9
52.5°	614.6	596.4	582.0	572.6	570.1	570.1	577.0	588.3	598.9	614.6	628.4
55°	567.6	551.3	537.5	534.3	530.6	532.4	540.0	551.3	566.3	583.9	598.9
57.5°	519.3	505.5	495.4	491.1	489.2	495.4	504.2	516.1	535.6	553.1	569.5
60°	473.5	461.6	450.9	449.7	448.4	456.6	467.2	479.8	499.2	516.8	536.8
62.5°	424.6	415.2	408.3	406.4	406.4	414.5	426.5	442.8	461.0	479.8	501.1
65°	375.0	366.9	365.0	362.5	368.1	373.2	385.1	400.7	420.2	440.9	463.5
67.5°	329.3	324.2	320.5	320.5	324.9	334.3	344.9	360.6	380.7	402.6	422.7
70°	283.5	278.5	275.3	278.5	281.0	292.3	303.5	318.6	337.4	358.7	380.1
72.5°	235.8	236.4	237.1	236.4	238.9	249.6	260.9	275.3	293.5	314.2	333.6
75°	193.8	190.7	191.3	192.5	200.7	206.3	217.6	231.4	250.9	269.7	286.0
77.5°	150.5	149.3	152.4	152.4	159.9	166.8	176.2	190.0	207.0	223.9	237.1
80°	110.4	111.0	113.5	114.1	120.4	127.9	138.0	147.4	162.4	174.3	186.9
82.5°	74.6	75.9	79.0	83.4	85.9	90.3	99.1	109.1	119.8	132.3	139.9
85°	43.3	45.2	47.7	50.8	53.3	57.7	64.0	72.1	79.6	86.5	92.8
87.5°	21.3	21.3	23.2	24.5	26.3	28.8	33.2	36.4	41.4	46.4	48.9
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: P243522

CATALOG NUMBER: S124DRP-H1195D940-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1536.5	1536.5	1536.5	1536.5
2.5°	1445.6	1445.0	1442.4	1443.7
5°	1364.0	1357.8	1357.1	1354.6
7.5°	1293.8	1291.9	1291.9	1286.9
10°	1239.9	1234.2	1235.5	1233.0
12.5°	1188.4	1185.3	1181.5	1177.8
15°	1130.7	1130.7	1130.7	1120.1
17.5°	1085.6	1085.0	1081.8	1081.2
20°	1038.6	1036.0	1027.9	1033.5
22.5°	990.9	989.0	982.1	983.4
25°	946.4	944.5	943.2	938.2
27.5°	908.1	908.7	910.0	906.9
30°	879.3	877.4	879.9	876.8
32.5°	852.3	852.3	849.8	850.4
35°	821.6	824.1	824.7	824.1
37.5°	794.6	797.7	800.2	797.7
40°	769.5	772.0	774.5	773.9
42.5°	743.2	747.6	749.4	751.3
45°	718.1	723.7	726.9	727.5
47.5°	692.4	699.3	705.5	704.9
50°	667.3	676.1	681.7	681.1
52.5°	642.2	651.0	657.9	661.0
55°	614.0	625.3	631.5	637.2
57.5°	585.8	598.3	604.6	607.1
60°	554.4	565.7	573.8	575.7
62.5°	519.3	531.2	541.9	544.4
65°	482.9	496.1	504.2	505.5
67.5°	440.9	453.4	461.6	465.3
70°	397.6	407.0	415.8	421.4
72.5°	349.3	360.6	368.8	372.5
75°	299.1	311.7	316.1	318.6
77.5°	247.1	254.6	261.5	262.1
80°	195.0	204.5	207.0	213.2
82.5°	143.6	152.4	150.5	153.0
85°	94.7	97.8	99.7	100.3
87.5°	50.2	52.1	53.3	53.9
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P243522  
 CATALOG NUMBER: S124DRP-H1195D940-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	19.65	21.22	20.02	21.54	21.85	19.94	21.51	20.30	21.82	22.14
	3H	21.09	22.51	21.47	22.84	23.20	21.33	22.74	21.70	23.07	23.43
	4H	21.61	22.94	22.01	23.29	23.67	21.81	23.14	22.21	23.49	23.86
	6H	21.96	23.19	22.37	23.56	23.95	22.12	23.36	22.54	23.72	24.11
	8H	22.05	23.23	22.48	23.62	24.02	22.21	23.38	22.63	23.77	24.17
	12H	22.10	23.23	22.53	23.61	24.04	22.25	23.38	22.68	23.76	24.19
4H	2H	20.79	22.12	21.19	22.47	22.84	20.73	22.06	21.13	22.41	22.79
	3H	22.29	23.40	22.70	23.80	24.20	22.44	23.55	22.85	23.94	24.35
	4H	22.86	23.87	23.30	24.28	24.72	23.03	24.03	23.46	24.44	24.88
	6H	23.28	24.15	23.73	24.59	25.05	23.43	24.30	23.89	24.75	25.20
	8H	23.39	24.21	23.86	24.65	25.12	23.54	24.35	24.00	24.80	25.26
	12H	23.47	24.20	23.95	24.68	25.15	23.60	24.33	24.08	24.81	25.28
8H	4H	23.29	24.11	23.75	24.55	25.02	23.37	24.18	23.83	24.63	25.09
	6H	23.79	24.47	24.28	24.95	25.43	23.90	24.58	24.39	25.07	25.54
	8H	23.95	24.56	24.46	25.07	25.55	24.06	24.67	24.57	25.18	25.67
	12H	24.07	24.61	24.58	25.10	25.66	24.18	24.72	24.69	25.21	25.77
12H	4H	23.33	24.07	23.81	24.54	25.01	23.40	24.13	23.88	24.61	25.08
	6H	23.86	24.46	24.37	24.97	25.46	23.96	24.57	24.47	25.08	25.57
	8H	24.07	24.61	24.58	25.10	25.66	24.18	24.72	24.69	25.21	25.78