

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: P242657

Luminaire Tested: S124DRP-S1195D935-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242657
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DRP-S1195D935-X4F0-XX-UDD-A-W
Description: DEFINE 4 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

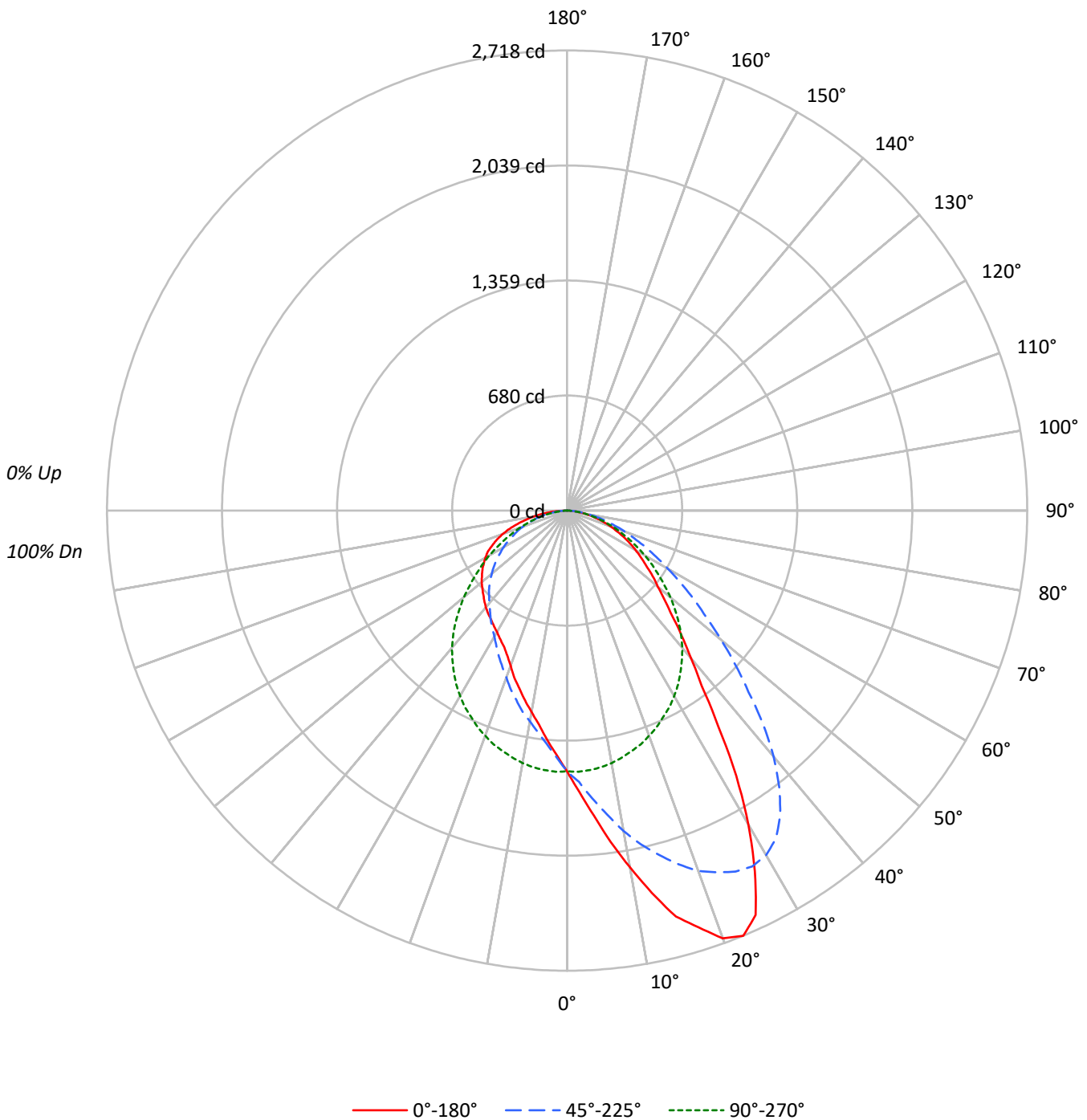
Lumens per Lamp: N/A
Luminaire Lumens: 4250.1 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.22 / 1.41
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')
CIE Type: Direct

Input Watts (W): 41.1
Input Voltage (V): 120
Input Current (A_{in}): 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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	80	98	90	84	79	87	82	78	84	79	76	81	77	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	62					62			
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53					53			
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	58	53	49	46					46			
6	72	59	51	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41					41			
7	67	54	45	39	65	53	45	39	52	44	39	50	44	39	49	43	38	36					36			
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33					33			
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30					30			
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27					27			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	13691	13691	13691	13691	13691
5°	16123	15230	13726	12337	12115
10°	19304	17352	13666	11414	10907
15°	22841	19382	13528	10663	10017
20°	25433	21425	13387	9922	9222
25°	25845	23072	13179	9343	8673
30°	21991	24113	12980	8821	8501
35°	16907	23810	12656	8537	8502
40°	13178	22003	12275	8299	8662
45°	10988	19041	11702	8197	8807
50°	9670	16420	11002	8047	9106
55°	8860	14130	10165	7901	9472
60°	8302	12228	9415	7701	9913
65°	7730	10683	8575	7448	10279
70°	7064	9434	7745	7246	10513
75°	6312	8129	6814	6773	10386
80°	5293	6598	5585	6173	10059
85°	3906	5008	4039	5722	9628

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 21022 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.9	3.5
10°-20°	462.7	10.9
20°-30°	735.0	17.3
30°-40°	816.7	19.2
40°-50°	742.8	17.5
50°-60°	606.9	14.3
60°-70°	433.3	10.2
70°-80°	238.4	5.6
80°-90°	64.4	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°	1347.6	31.7
0°-40°	2164.3	50.9
0°-60°	3514.0	82.7
0°-90°	4250.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4250.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1540	1540	1540	1540	1540	
5°	1807	1707	1538	1383	1358	183
15°	2482	2106	1470	1159	1088	702
25°	2635	2352	1344	953	884	1169
35°	1558	2194	1166	787	784	986
45°	874	1515	931	652	701	687
55°	572	912	656	510	611	516
65°	368	508	408	354	489	364
75°	184	237	198	197	302	195
85°	38	49	40	56	94	47
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°	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2
2.5°	1664.0	1663.4	1657.0	1655.7	1651.2	1645.5	1644.2	1634.0	1613.6	1604.0	1601.5
5°	1806.9	1819.7	1803.1	1799.9	1798.0	1776.9	1766.1	1753.3	1724.0	1706.8	1693.4
7.5°	1974.1	1974.7	1967.7	1960.7	1948.6	1930.7	1906.5	1878.4	1844.6	1810.1	1785.9
10°	2138.7	2143.8	2135.5	2134.2	2101.7	2081.3	2040.4	2006.0	1966.4	1922.4	1882.2
12.5°	2312.3	2302.0	2298.9	2265.0	2265.7	2224.2	2175.1	2139.3	2073.0	2020.7	1963.9
15°	2482.0	2467.9	2459.0	2421.4	2402.9	2351.2	2300.8	2261.8	2182.1	2106.2	2048.7
17.5°	2580.2	2597.5	2574.5	2559.2	2508.8	2475.0	2424.5	2344.8	2285.5	2191.0	2125.3
20°	2688.7	2690.0	2678.5	2662.5	2624.9	2579.0	2522.8	2433.5	2358.8	2265.0	2165.5
22.5°	2718.0	2718.0	2714.9	2700.2	2674.0	2638.9	2582.1	2511.3	2416.9	2312.9	2213.4
25°	2635.1	2632.5	2638.3	2654.9	2644.0	2632.5	2600.0	2544.5	2460.3	2352.4	2245.3
27.5°	2400.3	2416.9	2451.3	2492.2	2521.5	2547.7	2545.8	2522.2	2462.2	2369.0	2254.8
30°	2142.5	2164.2	2188.5	2229.3	2308.4	2353.7	2403.5	2441.1	2420.1	2349.3	2244.6
32.5°	1859.2	1860.5	1899.4	1947.3	2018.1	2115.7	2201.9	2288.0	2325.0	2296.3	2213.4
35°	1558.1	1567.0	1605.9	1651.9	1740.6	1847.1	1965.8	2071.7	2159.1	2194.2	2149.6
37.5°	1305.4	1333.5	1362.8	1415.2	1496.2	1592.5	1720.2	1852.2	1980.5	2058.3	2066.6
40°	1135.7	1151.7	1171.4	1209.1	1275.4	1369.9	1475.8	1632.7	1771.2	1896.2	1937.1
42.5°	1001.7	1009.4	1019.6	1052.8	1099.3	1193.1	1287.6	1420.9	1560.0	1715.7	1791.0
45°	874.1	883.7	904.1	923.9	962.2	1027.2	1117.2	1230.8	1370.5	1514.7	1641.0
47.5°	778.4	784.8	797.5	819.2	853.7	897.7	974.3	1070.6	1207.2	1346.9	1482.2
50°	699.3	704.4	714.0	733.1	758.0	796.3	856.2	944.9	1046.4	1187.4	1319.5
52.5°	636.8	638.0	644.4	655.9	674.4	705.0	751.6	821.2	913.7	1035.5	1167.0
55°	571.7	574.2	580.6	590.2	607.4	627.8	665.5	720.3	802.7	911.8	1026.0
57.5°	518.1	520.6	525.7	529.6	544.9	562.1	592.7	632.3	696.7	793.7	897.7
60°	467.0	465.8	472.1	475.3	484.9	498.9	521.3	558.9	613.2	687.8	781.6
62.5°	417.3	415.4	420.5	424.9	429.4	440.9	458.1	485.5	527.0	592.7	670.6
65°	367.5	365.0	368.1	373.3	378.4	384.7	398.1	424.3	459.4	507.9	569.8
67.5°	316.5	319.7	319.7	322.8	326.0	335.0	344.5	365.0	389.8	429.4	484.3
70°	271.8	272.4	275.0	275.0	276.9	284.6	292.2	303.1	327.3	363.0	405.8
72.5°	227.1	230.3	228.4	231.0	232.2	236.7	241.8	252.0	271.8	296.0	330.5
75°	183.8	185.7	185.7	186.3	188.2	190.1	194.6	202.3	216.9	236.7	261.6
77.5°	141.6	141.6	142.9	145.5	145.5	148.7	152.5	158.2	166.5	181.2	197.2
80°	103.4	104.6	104.0	105.3	105.3	107.8	109.1	116.8	120.0	128.9	141.0
82.5°	68.9	70.2	70.2	72.1	73.4	73.4	75.3	77.2	80.4	88.0	91.2
85°	38.3	39.6	38.3	39.6	41.5	42.1	44.0	44.7	47.2	49.1	53.6
87.5°	14.0	16.0	16.0	16.6	17.9	18.5	19.1	18.5	21.1	21.7	24.2
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°	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2
2.5°	1602.1	1593.2	1586.8	1581.7	1567.7	1559.4	1553.0	1544.1	1533.8	1523.0	1509.6
5°	1680.0	1658.3	1642.3	1618.1	1595.1	1576.0	1556.2	1538.3	1516.6	1493.0	1475.8
7.5°	1759.7	1729.7	1689.5	1658.3	1620.6	1588.1	1559.4	1529.4	1497.5	1466.8	1438.1
10°	1835.0	1793.5	1747.6	1693.4	1642.3	1597.0	1554.9	1514.1	1474.5	1434.9	1401.1
12.5°	1916.0	1861.8	1788.4	1722.7	1664.0	1599.6	1546.6	1494.3	1444.5	1402.4	1361.6
15°	1986.9	1912.2	1833.7	1748.9	1673.6	1602.8	1533.2	1470.0	1416.4	1361.6	1323.3
17.5°	2031.5	1939.0	1854.8	1766.1	1679.3	1590.6	1518.5	1447.7	1381.4	1327.8	1279.9
20°	2075.5	1983.7	1872.0	1783.3	1674.9	1583.0	1496.2	1415.2	1345.0	1286.9	1237.2
22.5°	2113.8	2004.1	1892.4	1768.6	1660.8	1561.9	1464.9	1383.3	1311.2	1249.3	1202.1
25°	2122.8	2000.9	1879.7	1763.5	1641.0	1525.5	1439.4	1343.7	1267.1	1202.7	1151.7
27.5°	2125.9	1997.1	1862.4	1736.1	1609.8	1504.5	1392.2	1308.6	1229.5	1161.2	1112.7
30°	2118.9	1983.0	1835.6	1695.9	1568.9	1452.2	1357.7	1264.6	1183.6	1115.9	1064.9
32.5°	2096.6	1953.7	1801.2	1651.2	1518.5	1405.0	1306.7	1219.3	1140.8	1074.5	1020.2
35°	2049.4	1909.6	1748.2	1594.5	1459.8	1344.3	1256.3	1166.3	1087.2	1024.1	972.4
37.5°	1986.2	1856.1	1692.1	1531.9	1402.4	1285.0	1196.3	1113.4	1041.9	976.8	923.2
40°	1898.2	1787.1	1622.5	1467.5	1324.6	1214.2	1132.5	1057.9	987.0	926.4	876.0
42.5°	1796.7	1703.6	1554.9	1388.4	1251.8	1140.8	1061.7	996.6	930.9	876.0	825.6
45°	1672.3	1608.5	1465.6	1313.7	1170.2	1065.5	989.6	930.9	874.8	819.9	777.8
47.5°	1533.8	1498.1	1373.7	1228.2	1090.4	985.8	920.1	863.9	812.9	765.0	727.4
50°	1394.1	1378.8	1274.8	1135.7	1005.5	908.6	842.2	795.6	753.5	712.7	677.6
52.5°	1256.3	1259.5	1168.2	1043.8	925.8	833.3	767.6	724.8	689.7	658.5	627.8
55°	1115.3	1133.2	1059.8	946.2	838.4	754.2	694.8	655.9	630.4	602.9	579.3
57.5°	985.8	1015.8	952.0	848.0	756.7	676.3	624.0	594.0	565.9	548.1	529.6
60°	859.4	887.5	840.3	756.1	671.2	604.9	555.7	529.6	506.0	494.5	482.4
62.5°	747.1	771.4	739.5	662.9	592.1	528.9	489.4	464.5	450.5	437.7	430.7
65°	641.2	662.3	632.3	575.5	512.3	461.3	427.5	407.7	392.4	387.3	378.4
67.5°	536.6	555.7	539.8	490.0	436.4	396.2	369.4	348.4	339.4	334.3	328.6
70°	445.4	464.5	447.3	405.2	366.2	333.7	308.8	298.0	288.4	286.5	277.5
72.5°	368.1	379.6	362.4	331.8	299.9	273.7	255.9	244.4	240.5	236.7	232.9
75°	287.8	299.2	287.8	262.2	238.6	219.5	202.9	198.4	192.7	190.8	187.6
77.5°	215.7	226.5	217.6	200.3	181.8	165.9	156.3	149.9	149.3	145.5	146.7
80°	155.7	162.1	153.8	142.9	128.9	118.7	112.3	109.1	105.3	104.0	106.6
82.5°	100.8	102.7	99.5	93.2	83.6	77.8	74.0	70.2	70.2	70.8	70.2
85°	58.1	57.4	56.8	50.4	47.2	42.7	40.2	39.6	38.9	40.2	41.5
87.5°	24.2	24.9	24.2	21.7	19.8	17.9	17.2	16.6	17.2	17.9	18.5
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2	1540.2
2.5°	1503.2	1497.5	1489.2	1477.7	1468.1	1457.9	1455.4	1451.5	1459.2	1452.8	1450.9
5°	1461.1	1447.7	1430.5	1410.7	1399.2	1382.6	1379.4	1373.1	1366.7	1366.0	1359.7
7.5°	1417.1	1398.6	1376.9	1356.5	1338.6	1320.7	1309.3	1308.0	1297.8	1292.7	1286.3
10°	1375.0	1350.7	1324.6	1305.4	1283.7	1264.6	1251.2	1243.5	1237.2	1230.1	1223.8
12.5°	1325.2	1299.0	1278.6	1257.6	1230.8	1217.4	1193.1	1178.5	1178.5	1180.4	1161.2
15°	1288.8	1263.3	1230.1	1200.8	1186.8	1158.7	1146.6	1131.2	1121.7	1112.1	1104.4
17.5°	1244.2	1212.9	1187.4	1154.2	1128.1	1107.0	1090.4	1082.1	1066.8	1052.8	1043.2
20°	1202.7	1168.9	1141.5	1105.7	1076.4	1048.9	1035.5	1022.8	1011.9	1000.4	989.6
22.5°	1160.6	1124.9	1089.8	1055.3	1028.5	999.2	986.4	967.9	957.7	952.6	941.7
25°	1115.9	1077.6	1039.4	1006.2	978.1	952.6	935.4	922.0	910.5	905.4	898.4
27.5°	1067.4	1029.8	993.4	955.1	922.6	904.1	890.1	879.2	872.2	864.5	861.4
30°	1021.5	981.9	942.4	907.3	877.9	859.4	846.7	839.7	834.6	831.4	828.2
32.5°	974.9	936.0	893.9	862.6	837.1	821.2	812.2	805.2	803.3	802.7	802.0
35°	924.5	885.0	846.7	818.0	793.1	786.7	778.4	774.6	773.3	777.8	779.7
37.5°	876.0	839.0	803.3	774.6	758.0	747.8	744.6	744.0	748.4	752.2	756.7
40°	829.4	793.7	760.5	736.3	721.0	715.2	714.0	717.2	722.3	726.7	731.8
42.5°	784.1	749.1	719.7	697.4	687.8	682.7	684.0	687.2	694.8	700.6	708.9
45°	736.9	707.6	678.2	659.7	650.8	652.1	652.1	657.8	664.8	673.1	681.4
47.5°	692.9	662.9	638.0	622.1	617.6	615.7	618.9	626.6	636.1	645.7	657.2
50°	648.2	620.2	599.1	585.1	580.0	581.9	587.0	594.0	606.1	618.9	631.0
52.5°	602.9	578.1	558.9	546.2	543.0	546.8	551.9	564.0	574.2	588.3	603.6
55°	555.7	534.0	518.7	509.2	507.9	509.8	515.5	527.7	543.0	560.2	574.2
57.5°	509.2	490.7	476.0	469.0	469.6	470.9	479.8	494.5	509.8	528.3	546.2
60°	461.9	445.4	433.9	428.8	429.4	433.2	444.7	458.1	478.5	496.4	515.5
62.5°	417.3	403.2	392.4	387.9	386.7	396.2	407.1	421.1	441.5	461.9	483.0
65°	368.8	357.3	348.4	345.8	347.7	354.1	368.1	386.7	403.9	424.9	446.6
67.5°	321.6	312.0	305.6	306.9	308.8	317.7	329.9	345.8	365.0	386.7	409.0
70°	276.9	268.0	262.9	263.5	267.3	278.8	289.0	305.0	326.0	348.4	366.2
72.5°	231.0	225.9	221.4	224.6	228.4	235.4	248.8	264.8	282.7	303.1	322.2
75°	184.4	184.4	181.8	183.8	189.5	197.2	206.7	223.3	241.8	258.4	273.7
77.5°	144.8	142.9	144.2	146.1	149.9	159.5	170.4	182.5	197.2	214.4	227.1
80°	104.6	105.3	108.5	112.3	113.6	120.6	132.1	142.9	153.8	167.8	179.9
82.5°	72.1	72.7	74.0	79.1	80.4	88.0	94.4	105.3	114.8	123.1	132.7
85°	42.7	42.7	45.9	47.9	51.0	56.1	60.6	67.0	75.9	82.3	91.9
87.5°	20.4	20.4	23.0	24.2	26.2	29.3	30.6	37.6	40.2	43.4	49.1
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: P242657

CATALOG NUMBER: S124DRP-S1195D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1540.2	1540.2	1540.2	1540.2
2.5°	1449.6	1448.3	1443.9	1443.2
5°	1355.8	1352.6	1350.7	1357.7
7.5°	1285.0	1282.5	1276.7	1274.8
10°	1217.4	1214.8	1209.7	1208.4
12.5°	1152.3	1146.6	1146.6	1148.5
15°	1096.1	1093.6	1086.6	1088.5
17.5°	1038.7	1036.2	1026.6	1036.2
20°	985.1	980.0	975.6	974.9
22.5°	934.1	929.6	930.3	925.2
25°	893.3	888.8	887.5	884.3
27.5°	860.1	857.5	855.0	856.2
30°	830.1	829.4	828.2	828.2
32.5°	805.2	805.2	806.5	806.5
35°	782.2	784.1	785.4	783.5
37.5°	761.8	763.1	765.0	766.9
40°	737.6	742.0	743.3	746.5
42.5°	714.6	719.7	723.5	723.5
45°	691.0	696.1	700.6	700.6
47.5°	666.7	673.8	678.2	678.9
50°	641.9	650.8	655.3	658.5
52.5°	617.6	626.6	632.9	634.2
55°	588.9	601.7	608.7	611.2
57.5°	563.4	574.9	582.5	584.4
60°	532.8	545.5	555.7	557.6
62.5°	501.5	514.9	523.8	529.6
65°	464.5	477.9	486.8	488.7
67.5°	425.6	439.6	445.4	449.2
70°	384.1	394.9	401.3	404.5
72.5°	336.9	348.4	356.0	356.0
75°	288.4	298.6	302.4	302.4
77.5°	238.0	243.7	248.8	250.1
80°	189.5	192.7	196.5	196.5
82.5°	139.7	142.3	146.1	145.5
85°	90.6	96.3	95.7	94.4
87.5°	51.0	51.7	53.6	54.9
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242657
 CATALOG NUMBER: S124DRP-S1195D935-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	19.06	20.62	19.42	20.93	21.25	19.97	21.53	20.33	21.85	22.16
	3H	20.54	21.95	20.92	22.28	22.64	21.34	22.74	21.71	23.07	23.43
	4H	21.08	22.40	21.48	22.75	23.13	21.81	23.13	22.21	23.48	23.86
	6H	21.44	22.66	21.85	23.03	23.42	22.12	23.34	22.53	23.70	24.10
	8H	21.54	22.71	21.97	23.10	23.50	22.20	23.36	22.62	23.75	24.15
	12H	21.60	22.71	22.03	23.09	23.52	22.24	23.35	22.67	23.74	24.16
4H	2H	20.22	21.54	20.62	21.89	22.27	20.66	21.98	21.05	22.33	22.70
	3H	21.75	22.85	22.16	23.25	23.65	22.36	23.47	22.77	23.86	24.26
	4H	22.34	23.33	22.77	23.75	24.18	22.95	23.95	23.38	24.36	24.80
	6H	22.76	23.63	23.22	24.07	24.53	23.35	24.22	23.81	24.66	25.12
	8H	22.89	23.70	23.35	24.14	24.61	23.45	24.27	23.92	24.71	25.18
	12H	22.96	23.69	23.44	24.17	24.64	23.52	24.24	24.00	24.72	25.19
8H	4H	22.79	23.60	23.25	24.05	24.51	23.27	24.08	23.73	24.52	24.99
	6H	23.30	23.97	23.79	24.46	24.94	23.79	24.47	24.29	24.96	25.43
	8H	23.47	24.07	23.98	24.58	25.07	23.96	24.56	24.47	25.07	25.56
	12H	23.59	24.12	24.10	24.62	25.18	24.07	24.60	24.58	25.10	25.66
12H	4H	22.84	23.57	23.32	24.04	24.51	23.30	24.02	23.78	24.50	24.97
	6H	23.37	23.98	23.88	24.48	24.97	23.85	24.46	24.36	24.96	25.45
	8H	23.59	24.13	24.10	24.62	25.18	24.07	24.61	24.58	25.10	25.66