

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: P242303

Luminaire Tested: S122DRP-S1005D840-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P242303  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122DRP-S1005D840-X4F0-XX-UDD-A-W  
Description: DEFINE 2 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER  
STANDARD LIGHT ENGINE  
Light Source: (92) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

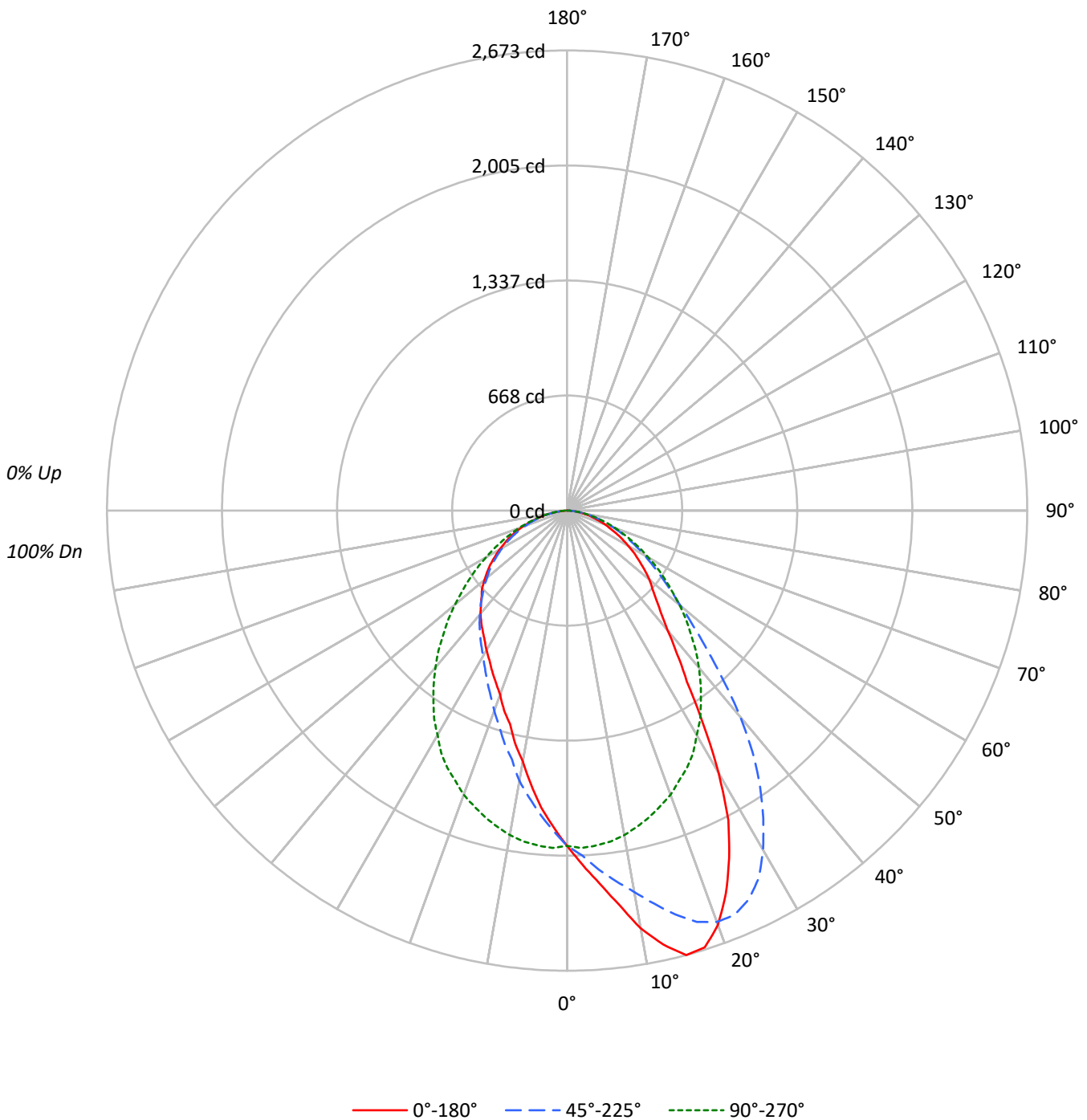
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4296.1 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 41.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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: P242303

CATALOG NUMBER: S122DRP-S1005D840-X4F0-XX-UDD-A-W

### Luminous Intensity Polar Plot





TEST NUMBER: P242303

CATALOG NUMBER: S122DRP-S1005D840-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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88					86				
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76					74				
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66					64				
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	58					55				
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51					49				
6	74	61	53	47	72	60	52	46	58	51	46	57	51	46	55	50	45					43				
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41					39				
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37					35				
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34					32				
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31					29				

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

	0°	45°	90°	135°	180°
0°	37094	37094	37094	37094	37094
5°	41585	40027	37337	33916	33086
10°	47654	43515	37029	30848	28633
15°	52718	47893	36351	27643	25296
20°	51914	51551	35621	25092	23059
25°	46811	52412	34653	23045	21643
30°	38684	50059	33104	21449	20609
35°	28194	45422	31482	20467	19874
40°	22518	38951	29572	19614	19467
45°	19678	31148	27358	18749	18910
50°	18497	25416	25218	18032	18541
55°	17049	22097	23040	17375	18046
60°	15623	19672	20728	16594	17280
65°	14233	17776	18655	15585	16527
70°	12920	15883	16630	14380	15421
75°	11459	14049	14373	12886	13659
80°	9850	11902	11902	10585	11002
85°	8829	9660	8829	7365	6535

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 65°  
 Vertical Angle: 45°  
 Luminance: 47720 cd/sqm



TEST NUMBER: P242303

CATALOG NUMBER: S122DRP-S1005D840-X4F0-XX-UDD-A-W

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.5	4.3
10°-20°	539.9	12.6
20°-30°	783.5	18.2
30°-40°	826.0	19.2
40°-50°	730.8	17.0
50°-60°	583.4	13.6
60°-70°	396.3	9.2
70°-80°	202.8	4.7
80°-90°	47.9	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°	1508.9	35.1
0°-40°	2334.9	54.3
0°-60°	3649.1	84.9
0°-90°	4296.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4296.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1947	1947	1947	1947	1947	
5°	2175	2093	1953	1774	1730	216
15°	2673	2429	1843	1402	1283	741
25°	2227	2494	1649	1096	1030	1010
35°	1212	1953	1354	880	855	785
45°	730	1156	1016	696	702	573
55°	513	665	694	523	543	460
65°	316	394	414	346	367	314
75°	156	191	195	175	186	166
85°	40	44	40	34	30	46
90°	0	0	0	0	0	



TEST NUMBER: P242303

CATALOG NUMBER: S122DRP-S1005D840-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1947.4	1947.4	1947.4	1947.4	1947.4	1947.4	1947.4	1947.4	1947.4	1947.4	1947.4
2.5°	2059.7	2060.4	2061.9	2050.0	2048.5	2048.5	2038.0	2029.0	2018.5	2004.3	2005.8
5°	2174.9	2183.2	2186.2	2177.2	2163.7	2162.2	2149.5	2128.5	2109.1	2093.4	2082.1
7.5°	2308.2	2311.2	2305.2	2294.7	2285.7	2268.5	2247.5	2227.3	2197.4	2170.5	2151.0
10°	2463.8	2468.3	2455.6	2438.4	2424.2	2403.2	2368.8	2333.6	2291.0	2249.8	2216.9
12.5°	2582.1	2594.8	2577.6	2579.1	2552.2	2521.5	2478.8	2465.3	2401.0	2339.6	2303.7
15°	2673.4	2672.7	2674.2	2659.9	2642.0	2637.5	2594.1	2546.9	2462.3	2428.7	2370.3
17.5°	2659.9	2670.4	2676.4	2671.9	2668.9	2662.2	2643.5	2608.3	2561.9	2505.0	2435.4
20°	2561.1	2576.1	2578.4	2595.6	2605.3	2618.0	2623.3	2615.0	2588.8	2543.2	2484.8
22.5°	2408.5	2410.0	2418.2	2447.4	2471.3	2508.0	2527.5	2564.1	2558.1	2541.7	2495.3
25°	2227.3	2219.9	2246.0	2259.5	2308.2	2359.1	2395.7	2436.1	2472.1	2493.8	2479.6
27.5°	2026.8	2011.0	2050.7	2085.9	2120.3	2169.7	2225.1	2291.0	2341.1	2409.2	2425.7
30°	1758.8	1765.6	1803.0	1841.1	1901.0	1978.9	2043.2	2117.3	2197.4	2276.0	2330.6
32.5°	1469.9	1500.6	1520.8	1584.4	1635.3	1724.4	1826.2	1923.5	2028.3	2120.3	2212.4
35°	1212.5	1242.4	1275.3	1318.0	1392.1	1478.2	1570.2	1695.2	1831.4	1953.4	2053.7
37.5°	1049.3	1044.1	1064.3	1095.7	1159.3	1233.4	1342.7	1469.9	1633.1	1768.5	1903.3
40°	905.6	902.6	916.1	944.5	990.2	1041.1	1133.9	1242.4	1391.3	1566.5	1734.9
42.5°	806.8	809.8	815.8	833.8	861.4	901.1	964.7	1053.0	1186.3	1348.7	1532.8
45°	730.5	735.7	743.9	753.7	771.6	806.1	845.0	910.8	1018.6	1156.3	1334.5
47.5°	670.6	672.1	681.1	690.1	700.5	721.5	755.9	797.8	880.2	997.7	1157.1
50°	624.2	619.0	624.9	631.7	642.9	656.4	677.3	716.3	767.1	857.7	985.7
52.5°	567.3	568.8	574.0	575.5	585.3	598.7	617.5	641.4	686.3	752.2	851.7
55°	513.4	517.2	520.2	524.7	533.6	543.4	558.3	576.3	612.2	665.4	743.2
57.5°	462.5	464.0	466.3	476.0	481.2	490.2	505.2	521.7	545.6	586.8	648.1
60°	410.1	410.1	416.1	419.9	427.4	436.3	447.6	463.3	484.2	516.4	563.6
62.5°	362.2	361.5	363.0	369.7	375.0	383.2	394.4	407.1	426.6	454.3	491.0
65°	315.8	314.3	318.8	320.3	326.3	334.5	343.5	357.8	373.5	394.4	428.9
67.5°	269.4	271.7	274.7	277.7	280.7	290.4	296.4	306.9	320.3	338.3	362.2
70°	232.0	232.0	232.0	234.3	238.8	243.2	249.2	257.5	270.2	285.2	306.1
72.5°	190.1	193.1	196.1	193.8	199.8	202.1	209.6	213.3	225.3	233.5	251.5
75°	155.7	155.7	155.7	159.4	161.7	163.9	168.4	172.9	178.9	190.9	200.6
77.5°	122.7	122.0	122.7	123.5	126.5	129.5	131.0	134.7	140.7	146.7	155.7
80°	89.8	91.3	92.1	93.6	93.6	95.1	95.8	101.0	104.8	108.5	113.8
82.5°	64.4	64.4	64.4	64.4	65.1	65.9	68.1	68.9	69.6	72.6	76.3
85°	40.4	39.7	39.7	41.2	40.4	40.4	41.9	43.4	43.4	44.2	46.4
87.5°	19.5	19.5	20.2	19.5	19.5	20.2	20.2	19.5	20.2	21.0	21.7
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: P242303

CATALOG NUMBER: S122DRP-S1005D840-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1947.4	1947.4	1947.4	1947.4	1947.4	1947.4	1947.4	1947.4	1947.4	1947.4	1947.4
2.5°	2011.0	2005.1	2001.3	1987.8	1975.9	1963.9	1960.1	1961.6	1945.2	1929.5	1922.7
5°	2076.2	2061.2	2047.0	2026.8	2002.8	1976.6	1963.1	1952.7	1926.5	1898.0	1881.6
7.5°	2135.3	2115.8	2090.4	2054.4	2021.5	1982.6	1958.6	1938.4	1901.8	1863.6	1840.4
10°	2188.4	2159.2	2124.1	2077.7	2035.0	1984.8	1949.7	1914.5	1869.6	1821.7	1791.7
12.5°	2234.1	2192.2	2157.7	2094.9	2042.5	1976.6	1933.2	1880.1	1832.2	1773.0	1743.8
15°	2311.9	2239.3	2173.4	2106.1	2044.0	1956.4	1910.0	1843.4	1781.3	1710.9	1677.2
17.5°	2369.5	2291.0	2189.2	2107.6	2038.7	1945.2	1878.6	1799.2	1728.9	1651.0	1606.1
20°	2417.4	2323.9	2212.4	2110.6	2023.8	1913.0	1838.9	1757.3	1671.3	1580.7	1531.3
22.5°	2445.9	2346.3	2236.3	2099.4	1993.8	1886.8	1788.8	1697.4	1609.9	1510.3	1457.9
25°	2447.4	2357.6	2240.8	2094.1	1969.9	1847.9	1735.6	1648.8	1543.3	1452.0	1376.4
27.5°	2422.7	2351.6	2238.6	2083.6	1942.2	1802.2	1680.2	1585.2	1473.7	1374.9	1299.3
30°	2368.0	2330.6	2221.3	2065.7	1907.8	1754.3	1616.6	1505.1	1394.3	1294.0	1216.2
32.5°	2283.5	2282.7	2189.9	2040.2	1871.1	1693.7	1550.0	1437.0	1311.3	1213.2	1139.9
35°	2167.5	2203.4	2142.8	1999.8	1823.2	1636.8	1482.6	1353.9	1226.7	1132.4	1062.8
37.5°	2020.0	2103.1	2079.1	1945.9	1761.8	1576.2	1408.6	1273.8	1151.8	1054.5	986.4
40°	1866.6	1980.4	1996.8	1882.3	1695.9	1503.6	1323.2	1189.3	1071.0	984.2	915.3
42.5°	1701.9	1839.6	1892.0	1806.0	1624.1	1427.3	1246.9	1106.9	990.2	906.4	847.2
45°	1514.1	1690.0	1771.5	1719.2	1542.5	1341.9	1156.3	1015.6	909.3	830.0	782.9
47.5°	1344.2	1535.0	1639.1	1614.4	1455.0	1255.9	1072.5	935.5	830.0	765.6	721.5
50°	1161.6	1359.2	1491.6	1497.6	1359.2	1162.3	978.2	851.0	755.9	696.8	662.4
52.5°	1002.9	1189.3	1336.7	1374.9	1252.1	1065.0	893.6	767.1	686.3	633.2	603.2
55°	868.9	1028.3	1188.5	1246.9	1145.9	966.2	805.3	693.8	615.2	577.8	550.8
57.5°	741.7	881.7	1033.6	1095.0	1030.6	872.7	717.0	619.0	552.3	518.7	497.7
60°	645.1	749.9	881.7	958.7	904.9	767.9	636.2	544.1	491.7	462.5	443.1
62.5°	555.3	645.1	751.4	820.3	797.1	669.8	555.3	476.8	433.3	406.4	393.7
65°	473.0	546.4	632.4	697.5	678.1	580.0	483.5	413.9	378.0	356.3	345.0
67.5°	402.7	458.8	520.2	580.0	563.6	491.0	409.4	353.3	325.6	306.1	299.4
70°	336.8	377.2	430.3	476.0	463.3	406.4	345.0	298.6	275.4	259.7	253.0
72.5°	273.9	305.4	342.8	378.0	370.5	325.6	276.9	244.7	228.3	214.1	208.8
75°	216.3	241.7	266.4	291.1	288.9	252.2	222.3	195.3	181.1	169.9	167.6
77.5°	169.1	184.9	202.8	218.5	214.8	190.9	166.2	149.7	138.5	131.0	130.2
80°	122.0	130.2	142.2	152.7	147.4	138.5	119.7	108.5	101.0	93.6	90.6
82.5°	80.1	88.3	94.3	98.8	95.1	86.8	77.1	70.4	66.6	62.1	61.4
85°	46.4	50.9	53.9	55.4	53.9	48.6	43.4	40.4	36.7	34.4	33.7
87.5°	22.5	22.5	22.5	23.9	21.7	21.7	18.7	16.5	15.7	15.0	13.5
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: P242303

CATALOG NUMBER: S122DRP-S1005D840-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1947.4	1947.4	1947.4	1947.4	1947.4	1947.4	1947.4	1947.4	1947.4	1947.4	1947.4
2.5°	1915.2	1910.7	1895.0	1886.8	1873.3	1860.6	1852.4	1856.1	1859.1	1857.6	1855.4
5°	1866.6	1852.4	1830.7	1812.0	1798.5	1773.8	1763.3	1758.1	1753.6	1748.3	1743.1
7.5°	1812.7	1792.5	1761.8	1737.9	1713.9	1682.5	1666.8	1657.8	1648.0	1636.8	1626.3
10°	1754.3	1722.9	1690.0	1652.5	1622.6	1594.9	1570.2	1553.7	1538.8	1524.6	1514.1
12.5°	1693.0	1655.5	1612.9	1558.2	1524.6	1481.9	1483.4	1451.2	1425.8	1418.3	1405.6
15°	1627.1	1576.2	1524.6	1463.9	1437.7	1401.8	1379.4	1356.9	1336.7	1322.5	1318.7
17.5°	1555.2	1487.1	1437.0	1392.1	1349.4	1312.8	1293.3	1275.3	1258.1	1237.2	1236.4
20°	1470.7	1413.8	1357.7	1319.5	1275.3	1237.9	1212.5	1194.5	1180.3	1169.1	1159.3
22.5°	1390.6	1327.0	1276.8	1234.2	1190.8	1162.3	1143.6	1126.4	1115.2	1102.4	1093.5
25°	1303.8	1255.1	1199.0	1151.8	1115.9	1096.5	1080.0	1065.0	1057.5	1049.3	1038.8
27.5°	1229.7	1175.8	1120.4	1083.7	1050.8	1033.6	1020.9	1009.6	1002.9	997.7	990.9
30°	1150.3	1095.7	1054.5	1018.6	992.4	975.2	967.7	961.7	953.5	950.5	947.5
32.5°	1074.0	1026.1	992.4	962.5	937.8	928.1	921.3	916.1	910.1	907.1	900.4
35°	1002.9	961.7	927.3	910.1	889.9	880.2	874.9	867.4	861.4	858.5	857.7
37.5°	934.8	897.4	874.2	851.0	841.2	836.0	828.5	823.3	821.0	820.3	819.5
40°	868.9	839.7	819.5	801.6	797.8	788.8	782.9	778.4	778.4	779.1	778.4
42.5°	809.1	783.6	766.4	751.4	746.9	742.4	736.5	737.2	738.7	741.7	738.7
45°	748.4	729.7	717.0	709.5	701.3	696.0	695.3	697.5	698.3	699.0	701.3
47.5°	691.6	679.6	667.6	658.6	654.9	654.1	652.6	656.4	660.1	660.9	664.6
50°	642.2	627.9	618.2	613.0	610.0	608.5	610.0	614.5	617.5	621.2	623.4
52.5°	586.8	577.8	571.8	568.1	567.3	568.8	568.8	574.0	579.3	580.0	580.8
55°	536.6	529.1	527.6	520.9	523.9	523.2	526.9	529.9	534.4	538.9	539.6
57.5°	485.7	479.0	474.5	475.3	476.0	479.0	482.0	487.2	492.5	497.7	497.7
60°	434.8	431.8	429.6	429.6	431.1	435.6	439.3	444.6	447.6	450.6	452.8
62.5°	388.4	385.4	383.2	384.7	389.2	391.4	395.9	398.2	401.2	404.2	404.9
65°	339.0	337.5	339.8	341.3	342.0	345.8	351.0	353.3	356.3	357.8	363.0
67.5°	294.1	294.1	293.4	295.6	300.1	300.9	306.1	312.1	312.1	315.1	318.8
70°	248.5	250.0	251.5	253.0	256.7	258.2	262.0	264.2	267.2	269.4	271.7
72.5°	206.6	206.6	208.1	207.3	210.3	214.1	217.0	219.3	222.3	225.3	227.5
75°	165.4	165.4	166.9	167.6	171.4	175.1	174.4	175.9	178.9	181.9	183.4
77.5°	128.0	126.5	128.0	128.7	130.2	133.2	134.0	136.2	140.0	139.2	140.7
80°	92.1	89.8	92.1	92.8	92.8	96.5	96.5	98.0	100.3	98.0	100.3
82.5°	59.1	58.4	59.9	59.9	61.4	60.6	62.1	62.1	64.4	63.6	64.4
85°	32.9	32.2	32.9	32.2	32.9	33.7	33.7	32.9	32.9	34.4	32.2
87.5°	12.7	12.0	11.2	11.2	10.5	9.7	9.0	9.0	9.0	7.5	7.5
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: P242303

CATALOG NUMBER: S122DRP-S1005D840-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1947.4	1947.4	1947.4	1947.4
2.5°	1847.9	1846.4	1846.4	1839.6
5°	1732.6	1730.4	1726.6	1730.4
7.5°	1623.4	1613.6	1612.1	1604.6
10°	1501.4	1495.4	1494.6	1480.4
12.5°	1408.6	1392.1	1395.8	1389.1
15°	1298.5	1298.5	1295.5	1282.8
17.5°	1219.9	1219.2	1212.5	1217.0
20°	1151.1	1146.6	1137.6	1137.6
22.5°	1086.0	1086.7	1077.0	1080.7
25°	1038.1	1032.1	1027.6	1029.8
27.5°	988.7	986.4	985.7	979.0
30°	946.8	939.3	940.8	937.0
32.5°	898.9	897.4	895.1	892.1
35°	856.2	857.0	853.2	854.7
37.5°	818.0	821.0	818.8	818.8
40°	780.6	780.6	780.6	782.9
42.5°	744.7	743.2	741.7	740.9
45°	702.8	705.0	705.8	702.0
47.5°	666.1	666.9	666.1	670.6
50°	627.2	625.7	627.2	625.7
52.5°	586.0	586.8	585.3	585.3
55°	542.6	544.1	543.4	543.4
57.5°	498.5	499.2	500.7	497.0
60°	452.1	455.8	455.0	453.6
62.5°	409.4	410.1	410.1	410.1
65°	365.2	366.7	364.5	366.7
67.5°	317.3	318.1	319.6	320.3
70°	273.2	272.4	274.7	276.9
72.5°	226.8	229.0	227.5	229.0
75°	181.9	184.1	183.4	185.6
77.5°	139.2	140.0	140.0	140.7
80°	100.3	98.8	97.3	100.3
82.5°	62.1	63.6	62.1	61.4
85°	32.2	31.4	29.9	29.9
87.5°	7.5	6.7	6.7	6.0
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242303  
 CATALOG NUMBER: S122DRP-S1005D840-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	20.85	22.37	21.22	22.68	22.99	24.10	25.62	24.47	25.93	26.25
	3H	22.26	23.62	22.64	23.95	24.31	25.11	26.47	25.49	26.80	27.16
	4H	22.76	24.04	23.16	24.39	24.77	25.43	26.71	25.83	27.06	27.44
	6H	23.12	24.30	23.53	24.66	25.05	25.63	26.81	26.04	27.17	27.57
	8H	23.23	24.35	23.65	24.74	25.14	25.67	26.79	26.10	27.18	27.59
	12H	23.30	24.37	23.73	24.76	25.19	25.69	26.76	26.12	27.15	27.58
4H	2H	21.71	22.99	22.11	23.34	23.71	24.31	25.59	24.71	25.94	26.32
	3H	23.27	24.33	23.68	24.73	25.13	25.66	26.72	26.07	27.12	27.52
	4H	23.86	24.81	24.29	25.23	25.66	26.16	27.12	26.59	27.53	27.97
	6H	24.30	25.13	24.76	25.57	26.03	26.50	27.33	26.95	27.77	28.23
	8H	24.44	25.22	24.91	25.66	26.13	26.57	27.35	27.03	27.79	28.26
	12H	24.55	25.24	25.03	25.72	26.19	26.61	27.30	27.09	27.78	28.25
8H	4H	24.29	25.06	24.75	25.51	25.98	26.29	27.06	26.75	27.51	27.98
	6H	24.82	25.46	25.32	25.95	26.43	26.73	27.37	27.22	27.86	28.34
	8H	25.02	25.59	25.53	26.10	26.59	26.86	27.43	27.38	27.94	28.43
	12H	25.18	25.68	25.69	26.17	26.74	26.95	27.46	27.46	27.95	28.52
12H	4H	24.35	25.04	24.83	25.52	25.99	26.28	26.98	26.77	27.45	27.93
	6H	24.90	25.47	25.41	25.98	26.47	26.73	27.30	27.24	27.81	28.30
	8H	25.14	25.65	25.65	26.14	26.71	26.91	27.41	27.42	27.91	28.47