

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: P242474

Luminaire Tested: S123DRP-S1000D840-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DRP-S1000D840-X4F0-XX-UDD-A-W
Description: DEFINE 3 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

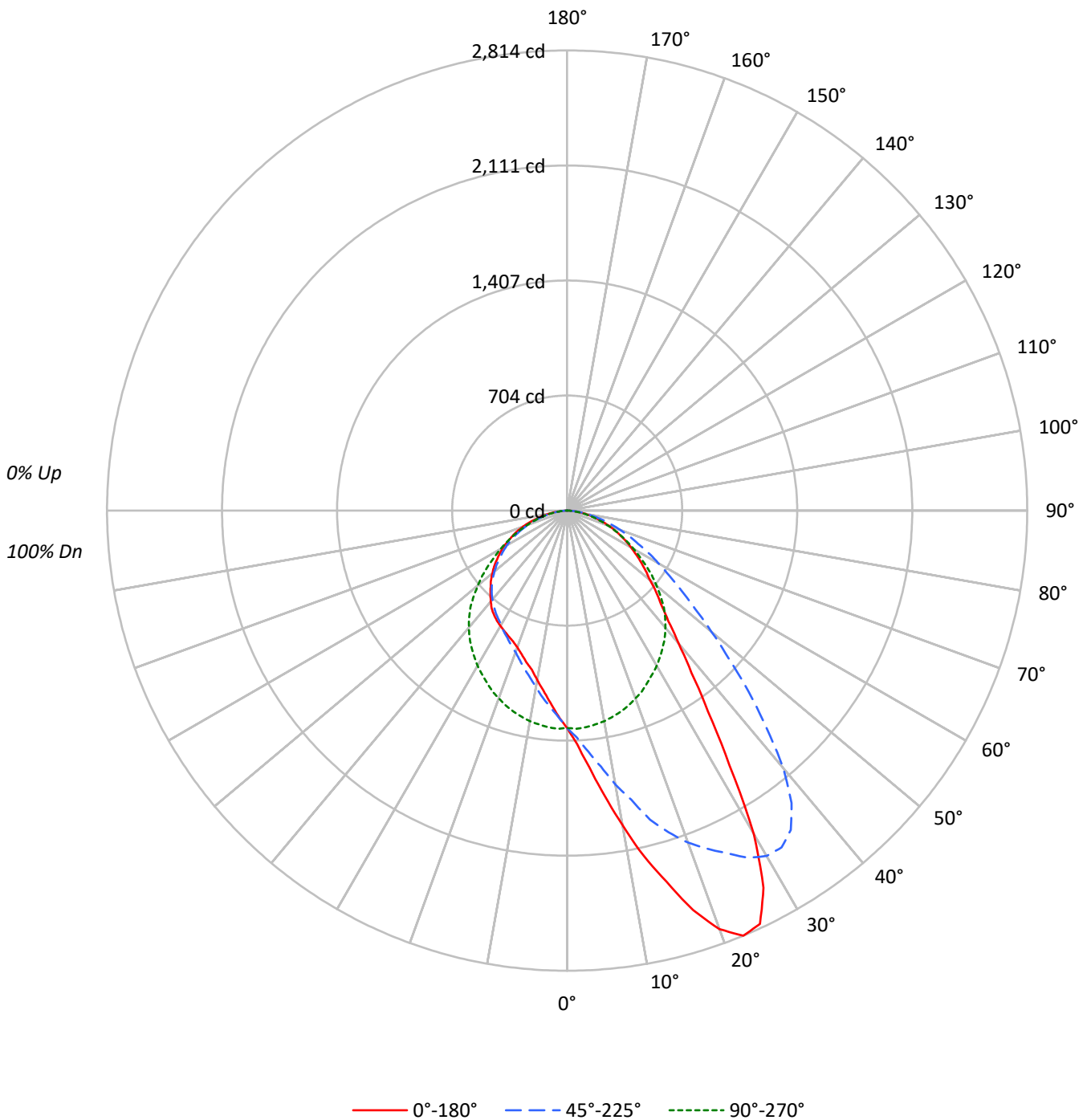
Lumens per Lamp: N/A
Luminaire Lumens: 4011.2 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.5
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')
CIE Type: Direct

Input Watts (W): 34.8
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

TEST NUMBER: P242474

CATALOG NUMBER: S123DRP-S1000D840-X4F0-XX-UDD-A-W

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	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	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87				85	
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	74				72	
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64				62	
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	56				53	
5	78	66	57	51	76	64	56	50	62	55	50	60	54	49	59	53	49				47	
6	72	59	51	44	70	58	50	44	56	49	44	55	48	43	53	48	43				41	
7	67	54	45	39	65	53	45	39	52	44	39	50	44	39	49	43	38				36	
8	62	49	41	35	61	49	41	35	47	40	35	46	39	35	45	39	35				33	
9	58	45	37	32	57	45	37	32	43	36	32	42	36	31	41	36	31				29	
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28				27	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	16109	16109	16109	16109	16109
5°	19210	18004	16178	14651	14337
10°	24045	20930	16095	13496	12949
15°	29492	24547	15966	12589	12056
20°	35132	27874	15764	11878	11479
25°	37305	30916	15518	11531	11349
30°	31975	34137	15339	11310	11410
35°	22237	35272	15083	11271	11529
40°	16750	32562	14784	11249	11492
45°	13907	26932	14338	11170	11346
50°	12457	21735	13428	10952	11243
55°	11648	18030	12451	10640	11103
60°	10926	15593	11425	10335	10989
65°	10268	13721	10417	9806	10638
70°	9629	12255	9264	9012	10132
75°	8627	10612	8111	8051	9287
80°	7553	8718	6652	6520	7999
85°	5911	6801	4840	4742	5368

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 31833 cd/sqm



TEST NUMBER: P242474

CATALOG NUMBER: S123DRP-S1000D840-X4F0-XX-UDD-A-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.7	3.3
10°-20°	419.8	10.5
20°-30°	706.4	17.6
30°-40°	798.3	19.9
40°-50°	715.1	17.8
50°-60°	577.2	14.4
60°-70°	402.2	10.0
70°-80°	211.1	5.3
80°-90°	50.6	1.3
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°	1256.9	31.3
0°-40°	2055.2	51.2
0°-60°	3347.4	83.5
0°-90°	4011.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4011.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1329	1329	1329	1329	1329	
5°	1579	1480	1330	1204	1178	162
15°	2350	1956	1272	1003	961	678
25°	2789	2312	1160	862	849	1233
35°	1503	2384	1019	762	779	970
45°	811	1571	836	652	662	640
55°	551	853	589	504	525	495
65°	358	478	363	342	371	357
75°	184	227	173	172	198	197
85°	42	49	35	34	39	51
90°	0	0	0	0	0	



TEST NUMBER: P242474

CATALOG NUMBER: S123DRP-S1000D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1329.0	1329.0	1329.0	1329.0	1329.0	1329.0	1329.0	1329.0	1329.0	1329.0	1329.0
2.5°	1430.7	1429.4	1426.2	1428.8	1423.6	1416.6	1415.9	1409.5	1390.8	1389.5	1384.4
5°	1578.8	1573.7	1573.0	1572.4	1563.4	1551.1	1527.9	1526.0	1495.1	1479.7	1461.0
7.5°	1757.8	1755.9	1750.7	1744.9	1714.7	1699.9	1678.0	1649.6	1613.6	1578.8	1556.9
10°	1953.6	1974.8	1948.4	1930.4	1913.6	1882.1	1845.4	1799.7	1753.9	1700.5	1659.9
12.5°	2163.5	2171.2	2171.2	2154.4	2126.1	2074.0	2001.8	1950.3	1909.1	1811.3	1776.5
15°	2350.2	2389.5	2364.4	2306.4	2307.7	2262.0	2177.0	2083.6	2034.0	1956.1	1849.9
17.5°	2561.4	2568.5	2560.7	2506.7	2480.3	2413.9	2337.3	2250.4	2157.0	2062.4	1952.3
20°	2723.6	2719.8	2697.2	2672.1	2616.8	2567.8	2482.2	2382.4	2253.6	2160.9	2037.9
22.5°	2813.8	2806.7	2799.0	2779.0	2735.2	2681.8	2607.1	2495.7	2374.7	2238.2	2091.3
25°	2789.3	2797.7	2799.0	2793.2	2777.1	2745.5	2685.0	2598.1	2475.7	2311.6	2163.5
27.5°	2600.0	2621.3	2648.3	2666.3	2695.3	2714.6	2695.3	2640.6	2540.1	2393.3	2211.1
30°	2284.5	2258.8	2322.5	2403.0	2457.7	2554.3	2608.4	2611.6	2560.7	2439.0	2262.6
32.5°	1846.7	1888.5	1907.8	2011.5	2147.4	2258.8	2379.8	2487.3	2512.4	2441.6	2292.9
35°	1502.8	1538.2	1589.8	1641.3	1770.0	1880.8	2070.1	2234.9	2366.3	2383.7	2289.0
37.5°	1249.1	1269.7	1301.3	1356.0	1444.2	1581.4	1731.4	1945.8	2126.8	2254.2	2241.4
40°	1058.6	1063.7	1100.4	1139.7	1207.9	1316.1	1448.1	1632.3	1860.2	2057.9	2140.3
42.5°	915.6	928.5	938.8	976.1	1027.0	1101.7	1222.1	1366.3	1570.4	1805.5	1986.4
45°	811.3	824.2	833.8	858.9	897.6	952.3	1037.9	1177.0	1336.1	1571.1	1788.1
47.5°	739.2	737.9	746.3	766.2	793.9	837.7	900.8	993.5	1146.1	1342.5	1569.8
50°	660.6	670.9	673.5	688.3	708.9	739.2	789.4	865.4	985.1	1152.6	1357.3
52.5°	605.3	606.5	614.9	624.6	642.0	663.8	705.7	761.1	848.6	985.1	1169.3
55°	551.2	551.2	558.3	566.6	576.9	598.2	627.1	670.9	742.4	853.2	1009.0
57.5°	500.9	503.5	510.0	511.9	520.9	535.7	560.8	595.6	650.3	739.8	868.6
60°	450.7	456.5	455.9	461.0	468.7	479.7	500.3	527.3	575.0	643.2	747.6
62.5°	406.9	405.0	405.0	411.4	419.2	429.5	441.1	463.6	502.2	560.8	645.8
65°	358.0	356.7	361.2	365.1	367.7	375.4	385.7	406.3	433.3	478.4	547.3
67.5°	315.5	311.6	314.9	316.1	320.7	327.1	337.4	350.3	372.2	410.2	465.5
70°	271.7	268.5	267.9	269.1	273.0	277.5	284.6	296.8	316.8	345.8	383.8
72.5°	226.6	224.7	224.7	227.9	229.2	231.8	236.3	247.3	262.1	282.0	316.8
75°	184.2	184.2	184.2	184.8	186.7	189.3	193.2	199.0	211.2	226.6	250.5
77.5°	145.5	146.2	144.9	144.2	147.5	148.7	149.4	155.8	162.9	174.5	193.2
80°	108.2	105.0	106.2	108.2	109.5	110.1	112.0	113.3	119.1	124.9	137.1
82.5°	73.4	70.8	70.8	74.0	74.0	74.7	76.6	78.6	79.8	85.0	90.1
85°	42.5	42.5	43.1	43.1	43.8	43.1	45.1	45.7	45.7	48.9	52.8
87.5°	19.3	18.0	18.7	19.3	18.7	19.3	20.0	20.6	21.2	21.9	22.5
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: P242474

CATALOG NUMBER: S123DRP-S1000D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1329.0	1329.0	1329.0	1329.0	1329.0	1329.0	1329.0	1329.0	1329.0	1329.0	1329.0
2.5°	1380.5	1375.3	1370.2	1361.2	1353.5	1342.5	1339.3	1335.4	1323.8	1313.5	1305.8
5°	1453.9	1438.4	1415.9	1395.3	1378.6	1356.0	1343.1	1329.6	1310.3	1292.9	1278.8
7.5°	1524.1	1497.0	1465.5	1431.4	1398.5	1367.0	1341.9	1319.3	1294.2	1269.7	1251.1
10°	1611.0	1567.2	1518.3	1465.5	1420.4	1376.6	1339.9	1307.7	1273.0	1242.7	1217.6
12.5°	1710.2	1640.0	1567.9	1500.9	1445.5	1380.5	1334.1	1291.0	1250.4	1212.4	1183.5
15°	1784.2	1701.8	1622.0	1533.7	1452.6	1376.6	1323.8	1272.3	1226.6	1189.3	1153.2
17.5°	1857.6	1767.5	1665.7	1559.5	1464.2	1376.6	1304.5	1249.1	1193.1	1148.1	1113.3
20°	1918.1	1811.9	1692.8	1581.4	1473.2	1372.8	1291.6	1222.1	1160.3	1112.0	1071.4
22.5°	1970.3	1841.5	1717.2	1596.2	1472.6	1362.5	1267.8	1195.7	1127.4	1080.4	1036.7
25°	2003.1	1854.4	1730.8	1591.0	1456.5	1344.4	1241.4	1160.3	1093.3	1037.9	993.5
27.5°	2034.0	1852.5	1712.7	1562.1	1437.2	1325.8	1215.0	1128.1	1057.9	998.0	952.3
30°	2064.9	1855.7	1681.2	1532.5	1406.2	1290.3	1183.5	1095.9	1021.2	960.0	917.5
32.5°	2084.3	1853.8	1652.2	1491.2	1357.3	1258.2	1149.3	1057.9	980.6	920.8	880.2
35°	2089.4	1842.8	1618.1	1431.4	1303.9	1204.1	1113.3	1019.3	938.8	882.8	836.4
37.5°	2078.5	1822.8	1580.7	1377.3	1239.5	1140.3	1061.1	980.6	903.4	840.9	800.4
40°	2043.1	1803.5	1535.7	1319.3	1172.5	1077.9	1012.8	934.3	858.3	799.7	762.4
42.5°	1975.4	1764.3	1486.1	1254.9	1103.0	1008.3	949.7	887.3	816.4	762.4	725.0
45°	1857.0	1703.7	1436.5	1190.5	1034.7	936.9	884.1	836.4	771.4	717.9	685.7
47.5°	1705.7	1622.0	1365.0	1122.9	963.3	868.6	813.2	774.0	723.1	679.9	648.4
50°	1546.6	1516.4	1292.3	1053.4	891.8	799.7	746.9	712.1	678.0	634.9	606.5
52.5°	1363.1	1394.0	1207.3	981.3	819.0	728.9	679.9	654.2	623.9	590.4	566.6
55°	1193.1	1260.7	1106.8	898.9	746.9	660.6	613.6	589.2	571.1	544.7	523.5
57.5°	1028.3	1114.6	1002.5	815.8	676.1	600.7	554.4	526.7	515.1	500.3	482.9
60°	884.7	969.7	889.2	732.1	604.6	533.8	493.9	471.3	459.7	450.1	435.9
62.5°	756.6	842.8	778.5	647.1	534.4	470.0	436.6	414.7	406.3	402.4	390.8
65°	641.3	715.4	670.3	558.3	468.1	410.2	378.6	363.2	354.8	352.9	345.1
67.5°	541.5	598.8	564.0	479.7	406.3	353.5	325.8	312.3	305.2	304.6	298.1
70°	443.6	496.4	471.3	396.6	335.5	296.2	273.0	261.4	257.6	256.9	253.7
72.5°	367.7	400.5	381.8	322.6	278.8	244.0	228.6	216.3	211.8	213.1	211.2
75°	283.3	311.0	299.4	256.3	218.3	195.1	180.9	173.2	169.3	171.3	168.7
77.5°	216.3	235.7	224.1	191.2	166.8	149.4	138.4	133.3	129.4	129.4	128.1
80°	153.9	164.2	158.4	140.4	121.1	106.9	98.5	95.3	93.4	92.7	92.1
82.5°	98.5	106.9	99.8	88.9	77.3	70.2	66.3	61.8	60.5	61.2	60.5
85°	55.4	58.6	56.0	48.3	43.1	39.3	36.7	34.8	33.5	34.1	32.8
87.5°	23.8	24.5	22.5	20.0	18.7	16.7	16.7	15.5	14.2	14.2	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



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CATALOG NUMBER: S123DRP-S1000D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1329.0	1329.0	1329.0	1329.0	1329.0	1329.0	1329.0	1329.0	1329.0	1329.0	1329.0
2.5°	1301.3	1296.8	1290.3	1280.7	1273.0	1260.7	1260.7	1262.7	1262.7	1262.0	1260.7
5°	1267.2	1257.5	1245.9	1232.4	1218.2	1204.1	1201.5	1196.3	1192.5	1189.9	1186.7
7.5°	1232.4	1216.3	1200.2	1181.5	1165.4	1151.9	1142.3	1133.9	1128.7	1122.9	1118.4
10°	1197.0	1175.7	1155.8	1135.8	1113.9	1096.5	1085.6	1077.9	1072.1	1066.9	1064.3
12.5°	1155.1	1130.0	1107.5	1088.8	1064.3	1046.3	1036.0	1033.4	1026.4	1014.1	1007.7
15°	1114.6	1092.0	1065.6	1036.7	1025.1	1003.2	990.9	985.1	981.3	972.9	970.3
17.5°	1081.1	1050.8	1020.6	999.3	978.1	960.7	953.6	945.9	940.7	933.0	931.1
20°	1039.2	1012.8	985.8	962.6	940.1	920.8	915.0	909.8	904.7	901.4	898.9
22.5°	996.7	970.3	949.1	927.8	903.4	892.4	886.0	880.2	877.0	875.0	872.5
25°	957.5	934.3	909.2	889.9	870.5	862.2	858.3	855.1	852.5	849.3	848.6
27.5°	922.7	896.9	875.7	857.0	842.8	835.8	831.3	829.3	829.3	830.6	831.3
30°	882.8	859.6	842.8	827.4	814.5	808.1	807.4	807.4	810.0	810.7	811.9
32.5°	846.1	828.0	811.3	796.5	787.5	783.6	786.8	786.8	788.8	790.7	793.3
35°	810.7	793.9	781.0	768.2	759.8	761.7	763.0	764.3	767.5	771.4	774.0
37.5°	777.2	761.7	748.2	737.9	732.7	736.6	739.8	742.4	746.3	749.5	752.1
40°	740.5	729.5	716.6	707.6	708.9	710.9	713.4	716.6	719.9	721.8	724.4
42.5°	706.3	694.8	685.7	678.7	680.6	683.2	684.5	685.7	689.6	693.5	694.8
45°	671.6	662.6	653.5	649.0	650.3	651.6	652.9	654.8	658.1	660.6	661.3
47.5°	632.3	625.9	620.1	614.9	617.5	616.8	618.8	622.6	623.9	625.2	629.1
50°	595.0	589.2	582.1	580.8	580.8	580.8	581.4	586.6	586.6	589.2	591.7
52.5°	553.7	550.5	546.7	544.1	542.8	542.8	546.0	547.9	549.2	553.1	555.7
55°	513.2	509.3	505.5	503.5	502.2	503.5	508.7	510.0	513.2	515.1	517.0
57.5°	470.7	468.1	464.9	463.6	463.6	464.2	468.1	471.3	472.0	478.4	481.0
60°	428.8	424.3	421.7	421.7	420.5	426.3	425.0	431.4	432.7	436.6	441.1
62.5°	385.7	379.2	378.6	378.6	381.2	381.8	384.4	386.3	390.2	395.3	398.6
65°	338.7	335.5	340.0	339.3	338.0	341.9	341.9	345.1	349.0	353.5	360.6
67.5°	294.9	292.3	293.6	293.0	294.9	297.5	299.4	302.0	306.5	311.6	316.1
70°	250.5	252.4	249.2	251.8	253.7	254.3	255.6	259.5	264.6	267.9	273.0
72.5°	207.3	206.7	208.0	208.6	210.6	211.8	213.1	217.6	223.4	226.0	229.9
75°	166.1	165.5	167.4	167.4	170.6	171.9	173.2	175.1	180.3	184.2	187.4
77.5°	128.8	129.4	128.8	131.4	130.1	130.7	134.6	136.5	137.1	145.5	146.8
80°	91.4	92.7	93.4	94.0	94.7	93.4	97.9	99.8	99.8	104.3	107.5
82.5°	59.2	59.9	61.8	62.5	62.5	64.4	63.7	65.0	67.0	68.3	72.8
85°	32.8	34.8	35.4	34.8	35.4	34.1	36.1	36.7	37.3	37.3	37.3
87.5°	12.9	13.5	12.9	13.5	12.9	13.5	13.5	12.2	12.2	14.2	11.6
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: P242474

CATALOG NUMBER: S123DRP-S1000D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1329.0	1329.0	1329.0	1329.0
2.5°	1256.2	1255.6	1260.1	1256.9
5°	1182.8	1184.8	1178.3	1178.3
7.5°	1116.5	1113.9	1114.6	1110.1
10°	1056.6	1052.8	1051.5	1052.1
12.5°	1007.0	1007.0	996.7	996.7
15°	970.3	958.1	956.8	960.7
17.5°	929.8	922.7	923.3	922.0
20°	898.9	895.0	894.4	889.9
22.5°	870.5	869.9	870.5	865.4
25°	848.0	851.2	848.6	848.6
27.5°	832.5	832.5	830.6	830.6
30°	814.5	813.9	815.2	815.2
32.5°	796.5	797.8	797.8	798.4
35°	777.8	778.5	780.4	779.1
37.5°	753.3	756.6	755.9	757.2
40°	725.0	726.9	726.3	726.3
42.5°	696.0	697.3	695.4	694.1
45°	663.8	662.6	664.5	661.9
47.5°	628.4	629.1	629.7	632.3
50°	593.0	596.9	596.9	596.2
52.5°	558.3	559.5	562.8	562.8
55°	522.2	523.5	524.8	525.4
57.5°	485.5	484.8	487.4	488.1
60°	446.2	446.2	451.4	453.3
62.5°	404.4	406.9	412.1	408.2
65°	363.8	368.9	368.3	370.9
67.5°	321.3	324.5	329.7	329.7
70°	278.2	281.4	284.0	285.9
72.5°	236.3	237.6	244.7	240.8
75°	191.9	196.4	200.2	198.3
77.5°	149.4	155.2	156.5	154.5
80°	112.0	111.4	115.3	114.6
82.5°	74.7	74.0	75.3	76.0
85°	39.9	41.9	39.3	38.6
87.5°	11.6	11.6	10.9	10.3
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242474
 CATALOG NUMBER: S123DRP-S1000D840-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	20.04	21.60	20.41	21.91	22.22	20.59	22.15	20.96	22.46	22.78
	3H	21.59	22.99	21.97	23.31	23.68	21.93	23.33	22.30	23.65	24.01
	4H	22.15	23.47	22.55	23.82	24.19	22.39	23.70	22.79	24.05	24.43
	6H	22.55	23.77	22.96	24.13	24.53	22.68	23.90	23.09	24.26	24.65
	8H	22.66	23.82	23.09	24.21	24.61	22.75	23.91	23.18	24.30	24.70
	12H	22.73	23.84	23.16	24.22	24.65	22.79	23.90	23.22	24.28	24.71
4H	2H	21.19	22.51	21.59	22.85	23.23	21.36	22.67	21.76	23.02	23.40
	3H	22.79	23.88	23.20	24.28	24.68	23.16	24.26	23.57	24.65	25.06
	4H	23.41	24.39	23.84	24.81	25.25	23.73	24.71	24.16	25.13	25.57
	6H	23.88	24.74	24.34	25.18	25.64	24.09	24.95	24.55	25.39	25.85
	8H	24.02	24.82	24.48	25.26	25.73	24.18	24.99	24.65	25.43	25.90
	12H	24.11	24.83	24.59	25.31	25.78	24.24	24.95	24.72	25.43	25.90
8H	4H	23.89	24.69	24.36	25.14	25.60	24.03	24.83	24.50	25.28	25.75
	6H	24.44	25.11	24.94	25.60	26.07	24.54	25.21	25.04	25.70	26.17
	8H	24.63	25.22	25.14	25.73	26.22	24.69	25.28	25.20	25.79	26.28
	12H	24.77	25.30	25.28	25.79	26.35	24.79	25.31	25.29	25.80	26.37
12H	4H	23.95	24.66	24.43	25.14	25.61	24.05	24.76	24.53	25.24	25.71
	6H	24.52	25.11	25.03	25.62	26.11	24.58	25.17	25.09	25.68	26.17
	8H	24.76	25.28	25.26	25.77	26.34	24.78	25.31	25.29	25.80	26.36