

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: P242484

Luminaire Tested: S123DRP-S1000D935-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242484
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-S1000D935-X4F0-XX-UDD-A-W
Description: DEFINE 3 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

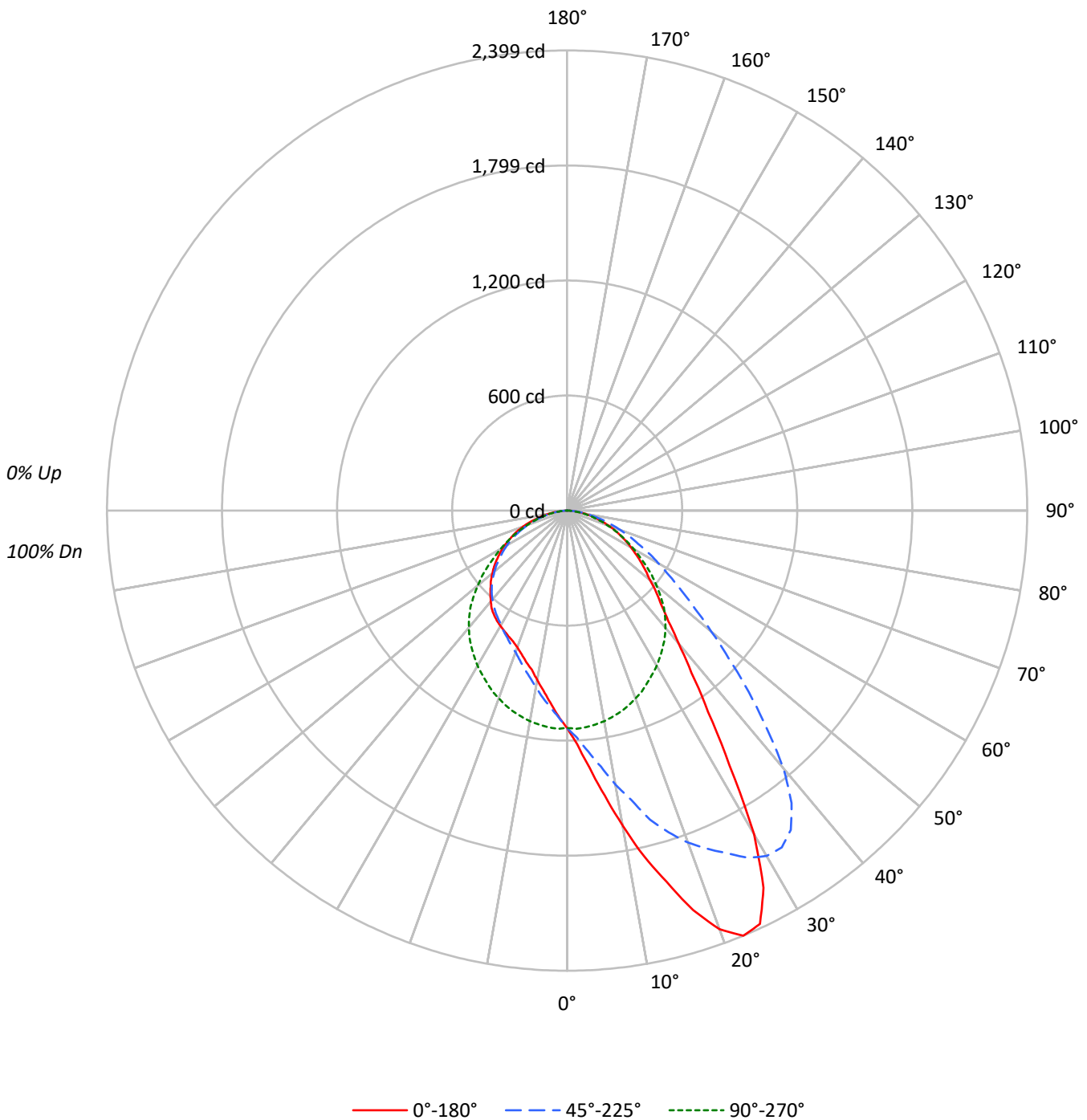
Lumens per Lamp: N/A
Luminaire Lumens: 3419.9 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.5
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')
CIE Type: Direct

Input Watts (W): 34.8
Input Voltage (V): 120
Input Current (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: P242484

CATALOG NUMBER: S123DRP-S1000D935-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°	13735	13735	13735	13735	13735
5°	16379	15349	13793	12491	12223
10°	20501	17844	13724	11507	11040
15°	25144	20929	13613	10733	10279
20°	29953	23764	13440	10126	9787
25°	31805	26358	13230	9831	9676
30°	27261	29105	13077	9644	9727
35°	18960	30073	12859	9609	9830
40°	14280	27762	12605	9590	9798
45°	11857	22962	12224	9524	9673
50°	10620	18531	11450	9338	9585
55°	9930	15372	10615	9072	9467
60°	9316	13295	9741	8810	9370
65°	8754	11699	8880	8361	9069
70°	8211	10448	7900	7683	8637
75°	7353	9048	6917	6866	7919
80°	6436	7434	5668	5556	6820
85°	5035	5799	4117	4047	4576

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 27139 cd/sqm



TEST NUMBER: P242484

CATALOG NUMBER: S123DRP-S1000D935-X4F0-XX-UDD-A-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	3.3
10°-20°	357.9	10.5
20°-30°	602.2	17.6
30°-40°	680.6	19.9
40°-50°	609.6	17.8
50°-60°	492.1	14.4
60°-70°	342.9	10.0
70°-80°	180.0	5.3
80°-90°	43.1	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°	1071.6	31.3
0°-40°	1752.2	51.2
0°-60°	2854.0	83.5
0°-90°	3419.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3419.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1133	1133	1133	1133	1133	
5°	1346	1262	1134	1027	1005	138
15°	2004	1668	1085	855	819	578
25°	2378	1971	989	735	724	1051
35°	1281	2032	869	649	664	827
45°	692	1340	713	556	564	546
55°	470	727	502	429	448	422
65°	305	408	310	292	316	304
75°	157	193	148	147	169	168
85°	36	42	30	29	33	44
90°	0	0	0	0	0	



TEST NUMBER: P242484

CATALOG NUMBER: S123DRP-S1000D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1
2.5°	1219.8	1218.7	1216.0	1218.2	1213.8	1207.7	1207.2	1201.7	1185.8	1184.7	1180.3
5°	1346.1	1341.7	1341.1	1340.6	1332.9	1322.5	1302.7	1301.1	1274.7	1261.5	1245.6
7.5°	1498.7	1497.0	1492.7	1487.7	1461.9	1449.3	1430.6	1406.5	1375.7	1346.1	1327.4
10°	1665.6	1683.7	1661.2	1645.8	1631.5	1604.6	1573.4	1534.4	1495.4	1449.8	1415.2
12.5°	1844.5	1851.1	1851.1	1836.9	1812.7	1768.2	1706.8	1662.8	1627.7	1544.3	1514.6
15°	2003.7	2037.2	2015.8	1966.4	1967.5	1928.5	1856.1	1776.5	1734.2	1667.8	1577.2
17.5°	2183.8	2189.8	2183.3	2137.1	2114.6	2058.1	1992.8	1918.7	1839.1	1758.4	1664.5
20°	2322.1	2318.9	2299.6	2278.2	2231.0	2189.3	2116.3	2031.2	1921.4	1842.3	1737.5
22.5°	2399.0	2393.0	2386.4	2369.4	2332.0	2286.5	2222.8	2127.8	2024.6	1908.2	1783.1
25°	2378.1	2385.3	2386.4	2381.4	2367.7	2340.8	2289.2	2215.1	2110.8	1970.8	1844.5
27.5°	2216.7	2234.9	2257.9	2273.3	2298.0	2314.5	2298.0	2251.3	2165.7	2040.5	1885.2
30°	1947.7	1925.8	1980.1	2048.8	2095.4	2177.8	2223.9	2226.6	2183.3	2079.5	1929.1
32.5°	1574.4	1610.1	1626.6	1715.0	1830.8	1925.8	2029.0	2120.7	2142.1	2081.7	1954.9
35°	1281.3	1311.5	1355.4	1399.3	1509.1	1603.5	1764.9	1905.5	2017.5	2032.3	1951.6
37.5°	1065.0	1082.6	1109.5	1156.1	1231.3	1348.3	1476.2	1659.0	1813.3	1921.9	1911.0
40°	902.5	906.9	938.2	971.7	1029.9	1122.1	1234.6	1391.6	1586.0	1754.5	1824.8
42.5°	780.6	791.6	800.4	832.2	875.6	939.3	1041.9	1164.9	1338.9	1539.3	1693.6
45°	691.7	702.7	710.9	732.3	765.3	811.9	884.9	1003.5	1139.1	1339.5	1524.5
47.5°	630.2	629.1	636.3	653.3	676.9	714.2	768.0	847.1	977.2	1144.6	1338.4
50°	563.2	572.0	574.2	586.9	604.4	630.2	673.0	737.8	839.9	982.7	1157.2
52.5°	516.0	517.1	524.3	532.5	547.3	566.0	601.7	648.9	723.5	839.9	996.9
55°	469.9	469.9	476.0	483.1	491.9	510.0	534.7	572.0	633.0	727.4	860.2
57.5°	427.1	429.3	434.8	436.4	444.1	456.7	478.2	507.8	554.5	630.8	740.6
60°	384.3	389.2	388.7	393.1	399.7	409.0	426.6	449.6	490.2	548.4	637.4
62.5°	346.9	345.3	345.3	350.8	357.4	366.2	376.0	395.3	428.2	478.2	550.6
65°	305.2	304.1	308.0	311.3	313.5	320.1	328.8	346.4	369.5	407.9	466.6
67.5°	269.0	265.7	268.4	269.5	273.4	278.9	287.7	298.6	317.3	349.7	396.9
70°	231.7	228.9	228.4	229.5	232.8	236.6	242.6	253.1	270.1	294.8	327.2
72.5°	193.2	191.6	191.6	194.3	195.4	197.6	201.5	210.8	223.4	240.4	270.1
75°	157.0	157.0	157.0	157.6	159.2	161.4	164.7	169.6	180.1	193.2	213.5
77.5°	124.1	124.6	123.5	123.0	125.7	126.8	127.4	132.9	138.9	148.8	164.7
80°	92.2	89.5	90.6	92.2	93.3	93.9	95.5	96.6	101.6	106.5	116.9
82.5°	62.6	60.4	60.4	63.1	63.1	63.7	65.3	67.0	68.1	72.5	76.9
85°	36.2	36.2	36.8	36.8	37.3	36.8	38.4	39.0	39.0	41.7	45.0
87.5°	16.5	15.4	15.9	16.5	15.9	16.5	17.0	17.6	18.1	18.7	19.2
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: P242484

CATALOG NUMBER: S123DRP-S1000D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1
2.5°	1177.0	1172.6	1168.2	1160.5	1153.9	1144.6	1141.9	1138.6	1128.7	1119.9	1113.3
5°	1239.6	1226.4	1207.2	1189.6	1175.3	1156.1	1145.2	1133.6	1117.2	1102.3	1090.3
7.5°	1299.4	1276.4	1249.5	1220.4	1192.4	1165.5	1144.1	1124.8	1103.4	1082.6	1066.7
10°	1373.5	1336.2	1294.5	1249.5	1211.0	1173.7	1142.4	1115.0	1085.3	1059.5	1038.1
12.5°	1458.1	1398.2	1336.7	1279.7	1232.4	1177.0	1137.5	1100.7	1066.1	1033.7	1009.0
15°	1521.2	1450.9	1382.9	1307.6	1238.5	1173.7	1128.7	1084.8	1045.8	1013.9	983.2
17.5°	1583.8	1506.9	1420.2	1329.6	1248.4	1173.7	1112.2	1065.0	1017.2	978.8	949.2
20°	1635.4	1544.8	1443.2	1348.3	1256.0	1170.4	1101.2	1041.9	989.2	948.1	913.5
22.5°	1679.9	1570.1	1464.1	1360.9	1255.5	1161.6	1080.9	1019.4	961.2	921.2	883.8
25°	1707.8	1581.0	1475.6	1356.5	1241.8	1146.3	1058.4	989.2	932.2	884.9	847.1
27.5°	1734.2	1579.4	1460.3	1331.8	1225.3	1130.3	1035.9	961.8	902.0	850.9	811.9
30°	1760.6	1582.1	1433.4	1306.6	1199.0	1100.1	1009.0	934.3	870.7	818.5	782.3
32.5°	1777.0	1580.5	1408.7	1271.4	1157.2	1072.7	979.9	902.0	836.1	785.0	750.4
35°	1781.4	1571.2	1379.6	1220.4	1111.7	1026.6	949.2	869.0	800.4	752.6	713.1
37.5°	1772.1	1554.1	1347.7	1174.2	1056.8	972.2	904.7	836.1	770.2	717.0	682.4
40°	1741.9	1537.7	1309.3	1124.8	999.7	919.0	863.5	796.6	731.8	681.8	650.0
42.5°	1684.2	1504.2	1267.0	1069.9	940.4	859.7	809.7	756.5	696.1	650.0	618.1
45°	1583.2	1452.6	1224.8	1015.0	882.2	798.8	753.7	713.1	657.7	612.1	584.7
47.5°	1454.2	1382.9	1163.8	957.4	821.3	740.6	693.4	659.9	616.5	579.7	552.8
50°	1318.6	1292.8	1101.8	898.1	760.3	681.8	636.8	607.2	578.1	541.3	517.1
52.5°	1162.2	1188.5	1029.3	836.6	698.3	621.4	579.7	557.8	532.0	503.4	483.1
55°	1017.2	1074.9	943.7	766.4	636.8	563.2	523.2	502.3	486.9	464.4	446.3
57.5°	876.7	950.3	854.7	695.5	576.4	512.2	472.7	449.1	439.2	426.6	411.7
60°	754.3	826.8	758.1	624.2	515.5	455.1	421.1	401.8	392.0	383.7	371.7
62.5°	645.0	718.6	663.7	551.7	455.6	400.7	372.2	353.5	346.4	343.1	333.2
65°	546.8	609.9	571.5	476.0	399.1	349.7	322.8	309.6	302.5	300.8	294.2
67.5°	461.7	510.5	480.9	409.0	346.4	301.4	277.8	266.3	260.2	259.7	254.2
70°	378.2	423.3	401.8	338.2	286.0	252.5	232.8	222.9	219.6	219.0	216.3
72.5°	313.5	341.5	325.5	275.0	237.7	208.1	194.9	184.5	180.6	181.7	180.1
75°	241.5	265.2	255.3	218.5	186.1	166.3	154.3	147.7	144.4	146.0	143.8
77.5°	184.5	200.9	191.0	163.0	142.2	127.4	118.0	113.6	110.3	110.3	109.2
80°	131.2	140.0	135.0	119.7	103.2	91.1	84.0	81.2	79.6	79.1	78.5
82.5°	84.0	91.1	85.1	75.8	65.9	59.8	56.5	52.7	51.6	52.2	51.6
85°	47.2	50.0	47.8	41.2	36.8	33.5	31.3	29.6	28.5	29.1	28.0
87.5°	20.3	20.9	19.2	17.0	15.9	14.3	14.3	13.2	12.1	12.1	11.5
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-S1000D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1
2.5°	1109.5	1105.6	1100.1	1091.9	1085.3	1074.9	1074.9	1076.5	1076.5	1076.0	1074.9
5°	1080.4	1072.1	1062.3	1050.7	1038.7	1026.6	1024.4	1020.0	1016.7	1014.5	1011.8
7.5°	1050.7	1037.0	1023.3	1007.4	993.6	982.1	973.9	966.7	962.3	957.4	953.6
10°	1020.5	1002.4	985.4	968.4	949.7	934.9	925.6	919.0	914.0	909.6	907.4
12.5°	984.9	963.4	944.2	928.3	907.4	892.1	883.3	881.1	875.1	864.6	859.1
15°	950.3	931.1	908.5	883.8	874.0	855.3	844.9	839.9	836.6	829.5	827.3
17.5°	921.7	895.9	870.1	852.0	833.9	819.1	813.0	806.4	802.0	795.5	793.8
20°	886.0	863.5	840.5	820.7	801.5	785.0	780.1	775.7	771.3	768.6	766.4
22.5°	849.8	827.3	809.2	791.1	770.2	760.9	755.4	750.4	747.7	746.1	743.9
25°	816.3	796.6	775.1	758.7	742.2	735.1	731.8	729.0	726.8	724.1	723.5
27.5°	786.7	764.7	746.6	730.7	718.6	712.6	708.7	707.1	707.1	708.2	708.7
30°	752.6	732.9	718.6	705.4	694.4	689.0	688.4	688.4	690.6	691.2	692.3
32.5°	721.3	706.0	691.7	679.1	671.4	668.1	670.8	670.8	672.5	674.1	676.3
35°	691.2	676.9	665.9	654.9	647.8	649.4	650.5	651.6	654.4	657.7	659.9
37.5°	662.6	649.4	637.9	629.1	624.7	628.0	630.8	633.0	636.3	639.0	641.2
40°	631.3	622.0	611.0	603.3	604.4	606.1	608.3	611.0	613.7	615.4	617.6
42.5°	602.2	592.3	584.7	578.6	580.3	582.5	583.6	584.7	587.9	591.2	592.3
45°	572.6	564.9	557.2	553.4	554.5	555.6	556.7	558.3	561.0	563.2	563.8
47.5°	539.1	533.6	528.7	524.3	526.5	525.9	527.6	530.9	532.0	533.1	536.3
50°	507.2	502.3	496.3	495.2	495.2	495.2	495.7	500.1	500.1	502.3	504.5
52.5°	472.1	469.4	466.1	463.9	462.8	462.8	465.5	467.2	468.3	471.6	473.8
55°	437.5	434.2	430.9	429.3	428.2	429.3	433.7	434.8	437.5	439.2	440.8
57.5°	401.3	399.1	396.4	395.3	395.3	395.8	399.1	401.8	402.4	407.9	410.1
60°	365.6	361.8	359.6	359.6	358.5	363.4	362.3	367.8	368.9	372.2	376.0
62.5°	328.8	323.3	322.8	322.8	325.0	325.5	327.7	329.4	332.7	337.1	339.8
65°	288.8	286.0	289.9	289.3	288.2	291.5	291.5	294.2	297.5	301.4	307.4
67.5°	251.4	249.2	250.3	249.8	251.4	253.6	255.3	257.5	261.3	265.7	269.5
70°	213.5	215.2	212.5	214.6	216.3	216.8	217.9	221.2	225.6	228.4	232.8
72.5°	176.8	176.2	177.3	177.9	179.5	180.6	181.7	185.6	190.5	192.7	196.0
75°	141.6	141.1	142.7	142.7	145.5	146.6	147.7	149.3	153.7	157.0	159.8
77.5°	109.8	110.3	109.8	112.0	110.9	111.4	114.7	116.4	116.9	124.1	125.2
80°	78.0	79.1	79.6	80.1	80.7	79.6	83.4	85.1	85.1	88.9	91.7
82.5°	50.5	51.1	52.7	53.3	53.3	54.9	54.3	55.4	57.1	58.2	62.0
85°	28.0	29.6	30.2	29.6	30.2	29.1	30.7	31.3	31.8	31.8	31.8
87.5°	11.0	11.5	11.0	11.5	11.0	11.5	11.5	10.4	10.4	12.1	9.9
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: P242484

CATALOG NUMBER: S123DRP-S1000D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1133.1	1133.1	1133.1	1133.1
2.5°	1071.0	1070.5	1074.3	1071.6
5°	1008.5	1010.1	1004.6	1004.6
7.5°	951.9	949.7	950.3	946.4
10°	900.9	897.6	896.5	897.0
12.5°	858.6	858.6	849.8	849.8
15°	827.3	816.9	815.8	819.1
17.5°	792.7	786.7	787.2	786.1
20°	766.4	763.1	762.5	758.7
22.5°	742.2	741.7	742.2	737.8
25°	723.0	725.7	723.5	723.5
27.5°	709.8	709.8	708.2	708.2
30°	694.4	693.9	695.0	695.0
32.5°	679.1	680.2	680.2	680.7
35°	663.2	663.7	665.4	664.3
37.5°	642.3	645.0	644.5	645.6
40°	618.1	619.8	619.2	619.2
42.5°	593.4	594.5	592.9	591.8
45°	566.0	564.9	566.5	564.3
47.5°	535.8	536.3	536.9	539.1
50°	505.6	508.9	508.9	508.3
52.5°	476.0	477.1	479.8	479.8
55°	445.2	446.3	447.4	448.0
57.5°	413.9	413.4	415.6	416.1
60°	380.4	380.4	384.8	386.5
62.5°	344.8	346.9	351.3	348.0
65°	310.2	314.6	314.0	316.2
67.5°	273.9	276.7	281.1	281.1
70°	237.2	239.9	242.1	243.7
72.5°	201.5	202.6	208.6	205.3
75°	163.6	167.4	170.7	169.1
77.5°	127.4	132.3	133.4	131.8
80°	95.5	95.0	98.3	97.7
82.5°	63.7	63.1	64.2	64.8
85°	34.0	35.7	33.5	32.9
87.5°	9.9	9.9	9.3	8.8
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242484
 CATALOG NUMBER: S123DRP-S1000D935-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	19.49	21.04	19.85	21.36	21.67	20.04	21.60	20.40	21.91	22.22
	3H	21.03	22.43	21.41	22.76	23.12	21.37	22.77	21.75	23.10	23.46
	4H	21.60	22.91	22.00	23.26	23.64	21.83	23.15	22.23	23.50	23.87
	6H	22.00	23.21	22.41	23.58	23.97	22.13	23.34	22.54	23.71	24.10
	8H	22.11	23.27	22.54	23.66	24.06	22.20	23.36	22.63	23.75	24.15
	12H	22.18	23.29	22.61	23.67	24.10	22.24	23.34	22.67	23.73	24.15
4H	2H	20.64	21.95	21.04	22.30	22.68	20.80	22.12	21.20	22.46	22.84
	3H	22.23	23.33	22.64	23.73	24.13	22.61	23.70	23.02	24.10	24.50
	4H	22.85	23.84	23.29	24.26	24.69	23.18	24.16	23.61	24.58	25.01
	6H	23.33	24.19	23.78	24.63	25.09	23.54	24.40	24.00	24.84	25.30
	8H	23.46	24.27	23.93	24.71	25.18	23.63	24.43	24.09	24.87	25.34
	12H	23.56	24.28	24.04	24.75	25.22	23.68	24.40	24.16	24.88	25.35
8H	4H	23.34	24.14	23.80	24.58	25.05	23.48	24.28	23.94	24.72	25.19
	6H	23.89	24.55	24.38	25.04	25.52	23.99	24.65	24.48	25.14	25.62
	8H	24.07	24.67	24.59	25.18	25.67	24.14	24.73	24.65	25.24	25.73
	12H	24.22	24.74	24.73	25.24	25.80	24.23	24.76	24.74	25.25	25.81
12H	4H	23.39	24.11	23.87	24.59	25.06	23.49	24.21	23.97	24.69	25.16
	6H	23.96	24.56	24.48	25.07	25.56	24.02	24.62	24.53	25.13	25.61
	8H	24.20	24.73	24.71	25.22	25.78	24.23	24.75	24.74	25.24	25.81