

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: P242459

Luminaire Tested: S123DRP-S1000D927-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242459
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-S1000D927-X4F0-XX-UDD-A-W
Description: DEFINE 3 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

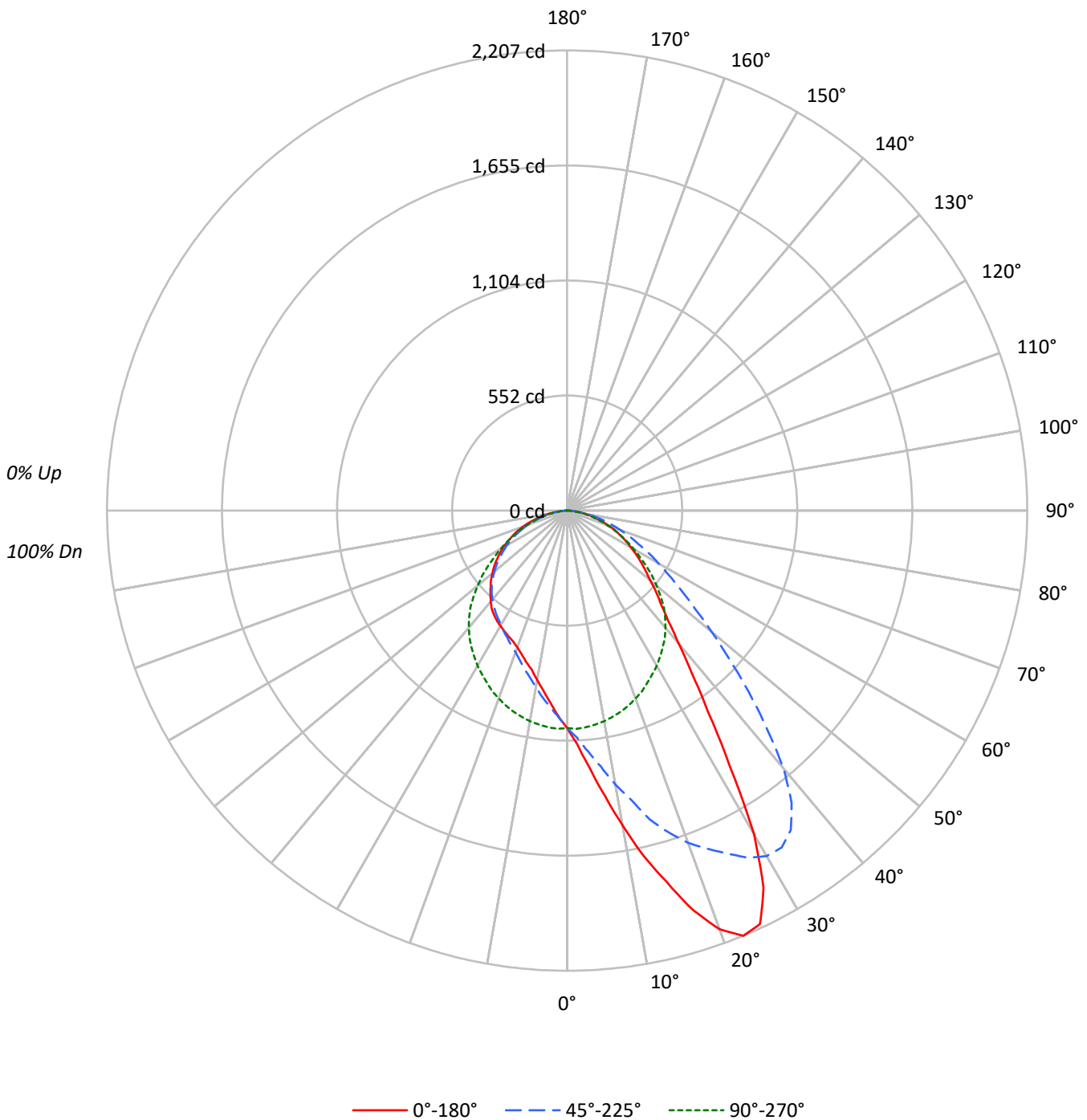
Lumens per Lamp: N/A
Luminaire Lumens: 3146.6 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.5
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')
CIE Type: Direct

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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12636	12636	12636	12636	12636
5°	15069	14123	12691	11492	11246
10°	18862	16419	12626	10588	10158
15°	23135	19256	12525	9875	9457
20°	27559	21865	12366	9317	9004
25°	29264	24252	12173	9045	8903
30°	25083	26779	12033	8872	8949
35°	17445	27669	11832	8841	9044
40°	13140	25543	11597	8823	9014
45°	10909	21126	11247	8763	8900
50°	9772	17049	10534	8591	8820
55°	9138	14142	9768	8347	8711
60°	8572	12233	8962	8107	8621
65°	8054	10764	8171	7692	8343
70°	7552	9611	7269	7070	7949
75°	6767	8327	6365	6318	7287
80°	5926	6841	5221	5110	6275
85°	4631	5340	3797	3727	4214

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 24971 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.5	3.3
10°-20°	329.3	10.5
20°-30°	554.1	17.6
30°-40°	626.2	19.9
40°-50°	560.9	17.8
50°-60°	452.8	14.4
60°-70°	315.5	10.0
70°-80°	165.6	5.3
80°-90°	39.7	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°	985.9	31.3
0°-40°	1612.2	51.2
0°-60°	2625.9	83.5
0°-90°	3146.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3146.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1042	1042	1042	1042	1042	
5°	1238	1161	1043	944	924	127
15°	1844	1534	998	787	754	532
25°	2188	1813	910	676	666	967
35°	1179	1870	800	598	611	761
45°	636	1232	656	511	519	502
55°	432	669	462	395	412	388
65°	281	375	285	268	291	280
75°	144	178	136	135	156	154
85°	33	38	27	27	30	40
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°	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5
2.5°	1122.3	1121.3	1118.8	1120.8	1116.8	1111.2	1110.7	1105.6	1091.0	1090.0	1086.0
5°	1238.5	1234.4	1233.9	1233.4	1226.4	1216.8	1198.6	1197.1	1172.8	1160.7	1146.1
7.5°	1378.9	1377.4	1373.3	1368.8	1345.1	1333.4	1316.3	1294.0	1265.8	1238.5	1221.3
10°	1532.5	1549.1	1528.4	1514.3	1501.1	1476.4	1447.6	1411.7	1375.9	1334.0	1302.1
12.5°	1697.1	1703.2	1703.2	1690.0	1667.8	1626.9	1570.3	1529.9	1497.6	1420.8	1393.6
15°	1843.6	1874.4	1854.7	1809.2	1810.3	1774.4	1707.7	1634.5	1595.6	1534.5	1451.1
17.5°	2009.3	2014.8	2008.8	1966.3	1945.6	1893.6	1833.5	1765.3	1692.1	1617.8	1531.4
20°	2136.5	2133.5	2115.8	2096.1	2052.7	2014.3	1947.1	1868.8	1767.8	1695.1	1598.6
22.5°	2207.3	2201.7	2195.6	2180.0	2145.6	2103.7	2045.1	1957.7	1862.8	1755.7	1640.5
25°	2188.1	2194.6	2195.6	2191.1	2178.5	2153.7	2106.2	2038.1	1942.1	1813.3	1697.1
27.5°	2039.6	2056.2	2077.4	2091.6	2114.3	2129.5	2114.3	2071.4	1992.6	1877.4	1734.5
30°	1792.1	1771.9	1821.9	1885.0	1927.9	2003.7	2046.1	2048.7	2008.8	1913.3	1774.9
32.5°	1448.6	1481.4	1496.6	1577.9	1684.5	1771.9	1866.8	1951.2	1970.9	1915.3	1798.6
35°	1178.9	1206.7	1247.1	1287.5	1388.5	1475.4	1623.9	1753.2	1856.2	1869.9	1795.6
37.5°	979.9	996.0	1020.8	1063.7	1132.9	1240.5	1358.2	1526.4	1668.3	1768.3	1758.2
40°	830.4	834.4	863.2	894.0	947.6	1032.4	1136.0	1280.4	1459.2	1614.3	1678.9
42.5°	718.2	728.3	736.4	765.7	805.6	864.2	958.7	1071.8	1231.9	1416.3	1558.2
45°	636.4	646.5	654.1	673.8	704.1	747.0	814.2	923.3	1048.1	1232.4	1402.6
47.5°	579.8	578.8	585.4	601.1	622.8	657.1	706.6	779.4	899.1	1053.1	1231.4
50°	518.2	526.3	528.3	539.9	556.1	579.8	619.2	678.8	772.8	904.1	1064.7
52.5°	474.8	475.8	482.4	489.9	503.6	520.8	553.6	597.0	665.7	772.8	917.2
55°	432.4	432.4	437.9	444.5	452.6	469.2	492.0	526.3	582.4	669.2	791.5
57.5°	393.0	395.0	400.0	401.5	408.6	420.2	439.9	467.2	510.1	580.4	681.4
60°	353.6	358.1	357.6	361.6	367.7	376.3	392.5	413.7	451.0	504.6	586.4
62.5°	319.2	317.7	317.7	322.8	328.8	336.9	346.0	363.7	394.0	439.9	506.6
65°	280.8	279.8	283.4	286.4	288.4	294.5	302.6	318.7	339.9	375.3	429.3
67.5°	247.5	244.5	247.0	248.0	251.5	256.6	264.7	274.8	291.9	321.7	365.2
70°	213.1	210.6	210.1	211.1	214.2	217.7	223.3	232.8	248.5	271.2	301.0
72.5°	177.8	176.3	176.3	178.8	179.8	181.8	185.4	194.0	205.6	221.2	248.5
75°	144.5	144.5	144.5	145.0	146.5	148.5	151.5	156.1	165.7	177.8	196.5
77.5°	114.2	114.7	113.6	113.1	115.7	116.7	117.2	122.2	127.8	136.9	151.5
80°	84.9	82.3	83.3	84.9	85.9	86.4	87.9	88.9	93.4	98.0	107.6
82.5°	57.6	55.6	55.6	58.1	58.1	58.6	60.1	61.6	62.6	66.7	70.7
85°	33.3	33.3	33.8	33.8	34.3	33.8	35.4	35.9	35.9	38.4	41.4
87.5°	15.2	14.1	14.6	15.2	14.6	15.2	15.7	16.2	16.7	17.2	17.7
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°	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5
2.5°	1082.9	1078.9	1074.8	1067.8	1061.7	1053.1	1050.6	1047.6	1038.5	1030.4	1024.3
5°	1140.5	1128.4	1110.7	1094.5	1081.4	1063.7	1053.6	1043.0	1027.9	1014.2	1003.1
7.5°	1195.6	1174.3	1149.6	1122.8	1097.1	1072.3	1052.6	1034.9	1015.2	996.0	981.4
10°	1263.7	1229.4	1191.0	1149.6	1114.2	1079.9	1051.1	1025.8	998.6	974.8	955.1
12.5°	1341.5	1286.5	1229.9	1177.4	1133.9	1082.9	1046.6	1012.7	980.9	951.1	928.4
15°	1399.6	1335.0	1272.3	1203.1	1139.5	1079.9	1038.5	998.1	962.2	932.9	904.6
17.5°	1457.2	1386.5	1306.7	1223.3	1148.6	1079.9	1023.3	979.9	935.9	900.6	873.3
20°	1504.7	1421.3	1327.9	1240.5	1155.7	1076.9	1013.2	958.7	910.2	872.3	840.5
22.5°	1545.6	1444.6	1347.1	1252.1	1155.1	1068.8	994.5	938.0	884.4	847.5	813.2
25°	1571.3	1454.7	1357.7	1248.1	1142.5	1054.6	973.8	910.2	857.6	814.2	779.4
27.5°	1595.6	1453.2	1343.5	1225.4	1127.4	1040.0	953.1	884.9	829.9	782.9	747.0
30°	1619.8	1455.7	1318.8	1202.1	1103.1	1012.2	928.4	859.7	801.1	753.1	719.8
32.5°	1635.0	1454.2	1296.1	1169.8	1064.7	987.0	901.6	829.9	769.3	722.3	690.5
35°	1639.0	1445.6	1269.3	1122.8	1022.8	944.5	873.3	799.6	736.4	692.5	656.1
37.5°	1630.4	1429.9	1240.0	1080.4	972.3	894.5	832.4	769.3	708.6	659.7	627.8
40°	1602.7	1414.8	1204.6	1034.9	919.8	845.5	794.5	732.9	673.3	627.3	598.0
42.5°	1549.6	1384.0	1165.8	984.4	865.2	791.0	745.0	696.0	640.5	598.0	568.7
45°	1456.7	1336.5	1126.9	933.9	811.7	734.9	693.5	656.1	605.1	563.2	537.9
47.5°	1338.0	1272.3	1070.8	880.9	755.6	681.4	637.9	607.1	567.2	533.4	508.6
50°	1213.2	1189.5	1013.7	826.3	699.6	627.3	585.9	558.6	531.9	498.0	475.8
52.5°	1069.3	1093.5	947.0	769.8	642.5	571.8	533.4	513.2	489.4	463.2	444.5
55°	935.9	989.0	868.3	705.1	585.9	518.2	481.4	462.2	448.0	427.3	410.6
57.5°	806.6	874.3	786.4	640.0	530.3	471.3	434.9	413.2	404.1	392.5	378.8
60°	694.0	760.7	697.5	574.3	474.3	418.7	387.4	369.7	360.6	353.1	341.9
62.5°	593.5	661.2	610.7	507.6	419.2	368.7	342.5	325.3	318.7	315.7	306.6
65°	503.1	561.2	525.8	437.9	367.2	321.7	297.0	284.9	278.3	276.8	270.7
67.5°	424.8	469.7	442.5	376.3	318.7	277.3	255.6	245.0	239.4	238.9	233.9
70°	348.0	389.4	369.7	311.1	263.2	232.3	214.2	205.1	202.0	201.5	199.0
72.5°	288.4	314.2	299.5	253.1	218.7	191.4	179.3	169.7	166.2	167.2	165.7
75°	222.2	244.0	234.9	201.0	171.2	153.0	141.9	135.9	132.8	134.4	132.3
77.5°	169.7	184.9	175.8	150.0	130.8	117.2	108.6	104.6	101.5	101.5	100.5
80°	120.7	128.8	124.3	110.1	95.0	83.8	77.3	74.8	73.2	72.7	72.2
82.5°	77.3	83.8	78.3	69.7	60.6	55.1	52.0	48.5	47.5	48.0	47.5
85°	43.4	46.0	43.9	37.9	33.8	30.8	28.8	27.3	26.3	26.8	25.8
87.5°	18.7	19.2	17.7	15.7	14.6	13.1	13.1	12.1	11.1	11.1	10.6
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°	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5
2.5°	1020.8	1017.3	1012.2	1004.6	998.6	989.0	989.0	990.5	990.5	990.0	989.0
5°	994.0	986.4	977.4	966.7	955.6	944.5	942.5	938.5	935.4	933.4	930.9
7.5°	966.7	954.1	941.5	926.8	914.2	903.6	896.0	889.5	885.4	880.9	877.3
10°	939.0	922.3	906.6	891.0	873.8	860.2	851.6	845.5	841.0	836.9	834.9
12.5°	906.1	886.4	868.8	854.1	834.9	820.8	812.7	810.7	805.1	795.5	790.5
15°	874.3	856.6	835.9	813.2	804.1	786.9	777.3	772.8	769.8	763.2	761.2
17.5°	848.1	824.3	800.6	783.9	767.2	753.6	748.0	742.0	737.9	731.9	730.4
20°	815.2	794.5	773.3	755.1	737.4	722.3	717.7	713.7	709.7	707.1	705.1
22.5°	781.9	761.2	744.5	727.8	708.6	700.1	695.0	690.5	687.9	686.4	684.4
25°	751.1	732.9	713.2	698.0	682.9	676.3	673.3	670.8	668.7	666.2	665.7
27.5°	723.8	703.6	686.9	672.3	661.2	655.6	652.1	650.6	650.6	651.6	652.1
30°	692.5	674.3	661.2	649.0	638.9	633.9	633.4	633.4	635.4	635.9	636.9
32.5°	663.7	649.5	636.4	624.8	617.7	614.7	617.2	617.2	618.7	620.3	622.3
35°	635.9	622.8	612.7	602.6	596.0	597.5	598.5	599.5	602.1	605.1	607.1
37.5°	609.6	597.5	586.9	578.8	574.8	577.8	580.4	582.4	585.4	587.9	589.9
40°	580.9	572.3	562.2	555.1	556.1	557.6	559.6	562.2	564.7	566.2	568.2
42.5°	554.1	545.0	537.9	532.4	533.9	535.9	536.9	537.9	541.0	544.0	545.0
45°	526.8	519.7	512.7	509.1	510.1	511.2	512.2	513.7	516.2	518.2	518.7
47.5°	496.0	491.0	486.4	482.4	484.4	483.9	485.4	488.4	489.4	490.4	493.5
50°	466.7	462.2	456.6	455.6	455.6	455.6	456.1	460.1	460.1	462.2	464.2
52.5°	434.4	431.9	428.8	426.8	425.8	425.8	428.3	429.8	430.8	433.9	435.9
55°	402.6	399.5	396.5	395.0	394.0	395.0	399.0	400.0	402.6	404.1	405.6
57.5°	369.2	367.2	364.7	363.7	363.7	364.2	367.2	369.7	370.2	375.3	377.3
60°	336.4	332.9	330.8	330.8	329.8	334.4	333.4	338.4	339.4	342.5	346.0
62.5°	302.6	297.5	297.0	297.0	299.0	299.5	301.5	303.1	306.1	310.1	312.7
65°	265.7	263.2	266.7	266.2	265.2	268.2	268.2	270.7	273.8	277.3	282.9
67.5°	231.3	229.3	230.3	229.8	231.3	233.4	234.9	236.9	240.4	244.5	248.0
70°	196.5	198.0	195.5	197.5	199.0	199.5	200.5	203.6	207.6	210.1	214.2
72.5°	162.6	162.1	163.1	163.7	165.2	166.2	167.2	170.7	175.3	177.3	180.3
75°	130.3	129.8	131.3	131.3	133.8	134.9	135.9	137.4	141.4	144.5	147.0
77.5°	101.0	101.5	101.0	103.0	102.0	102.5	105.6	107.1	107.6	114.2	115.2
80°	71.7	72.7	73.2	73.7	74.2	73.2	76.8	78.3	78.3	81.8	84.4
82.5°	46.5	47.0	48.5	49.0	49.0	50.5	50.0	51.0	52.5	53.5	57.1
85°	25.8	27.3	27.8	27.3	27.8	26.8	28.3	28.8	29.3	29.3	29.3
87.5°	10.1	10.6	10.1	10.6	10.1	10.6	10.6	9.6	9.6	11.1	9.1
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: P242459

CATALOG NUMBER: S123DRP-S1000D927-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1042.5	1042.5	1042.5	1042.5
2.5°	985.4	984.9	988.5	985.9
5°	927.9	929.4	924.3	924.3
7.5°	875.8	873.8	874.3	870.8
10°	828.9	825.8	824.8	825.3
12.5°	790.0	790.0	781.9	781.9
15°	761.2	751.6	750.6	753.6
17.5°	729.4	723.8	724.3	723.3
20°	705.1	702.1	701.6	698.0
22.5°	682.9	682.4	682.9	678.8
25°	665.2	667.7	665.7	665.7
27.5°	653.1	653.1	651.6	651.6
30°	638.9	638.4	639.4	639.4
32.5°	624.8	625.8	625.8	626.3
35°	610.2	610.7	612.2	611.2
37.5°	591.0	593.5	593.0	594.0
40°	568.7	570.3	569.7	569.7
42.5°	546.0	547.0	545.5	544.5
45°	520.8	519.7	521.3	519.2
47.5°	493.0	493.5	494.0	496.0
50°	465.2	468.2	468.2	467.7
52.5°	437.9	438.9	441.5	441.5
55°	409.6	410.6	411.7	412.2
57.5°	380.8	380.3	382.4	382.9
60°	350.0	350.0	354.1	355.6
62.5°	317.2	319.2	323.3	320.2
65°	285.4	289.4	288.9	290.9
67.5°	252.0	254.6	258.6	258.6
70°	218.2	220.7	222.7	224.3
72.5°	185.4	186.4	191.9	188.9
75°	150.5	154.1	157.1	155.6
77.5°	117.2	121.7	122.7	121.2
80°	87.9	87.4	90.4	89.9
82.5°	58.6	58.1	59.1	59.6
85°	31.3	32.8	30.8	30.3
87.5°	9.1	9.1	8.6	8.1
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242459
 CATALOG NUMBER: S123DRP-S1000D927-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	19.20	20.75	19.56	21.07	21.38	19.75	21.31	20.12	21.62	21.93
	3H	20.74	22.14	21.12	22.47	22.83	21.08	22.48	21.46	22.81	23.17
	4H	21.31	22.62	21.71	22.97	23.35	21.54	22.86	21.94	23.21	23.58
	6H	21.71	22.92	22.12	23.29	23.68	21.84	23.05	22.25	23.42	23.81
	8H	21.82	22.98	22.25	23.37	23.77	21.91	23.07	22.34	23.46	23.86
	12H	21.89	23.00	22.32	23.38	23.81	21.95	23.05	22.38	23.44	23.87
4H	2H	20.35	21.66	20.75	22.01	22.39	20.51	21.83	20.91	22.17	22.55
	3H	21.94	23.04	22.35	23.44	23.84	22.32	23.41	22.73	23.81	24.21
	4H	22.57	23.55	23.00	23.97	24.40	22.89	23.87	23.32	24.29	24.72
	6H	23.04	23.90	23.49	24.34	24.80	23.25	24.11	23.71	24.55	25.01
	8H	23.18	23.98	23.64	24.42	24.89	23.34	24.14	23.80	24.58	25.05
	12H	23.27	23.99	23.75	24.46	24.93	23.39	24.11	23.87	24.59	25.06
8H	4H	23.05	23.85	23.51	24.29	24.76	23.19	23.99	23.65	24.43	24.90
	6H	23.60	24.26	24.09	24.75	25.23	23.70	24.36	24.20	24.85	25.33
	8H	23.79	24.38	24.30	24.89	25.38	23.85	24.44	24.36	24.95	25.44
	12H	23.93	24.46	24.44	24.95	25.51	23.94	24.47	24.45	24.96	25.52
12H	4H	23.10	23.82	23.58	24.30	24.77	23.20	23.92	23.68	24.40	24.87
	6H	23.67	24.27	24.19	24.78	25.27	23.73	24.33	24.25	24.84	25.33
	8H	23.91	24.44	24.42	24.93	25.49	23.94	24.46	24.45	24.96	25.52