

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: P243339

Luminaire Tested: S123DRP-H1000D930-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243339
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-59)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DRP-H1000D930-X4F0-XX-UDD-A-W
Description: DEFINE 3 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

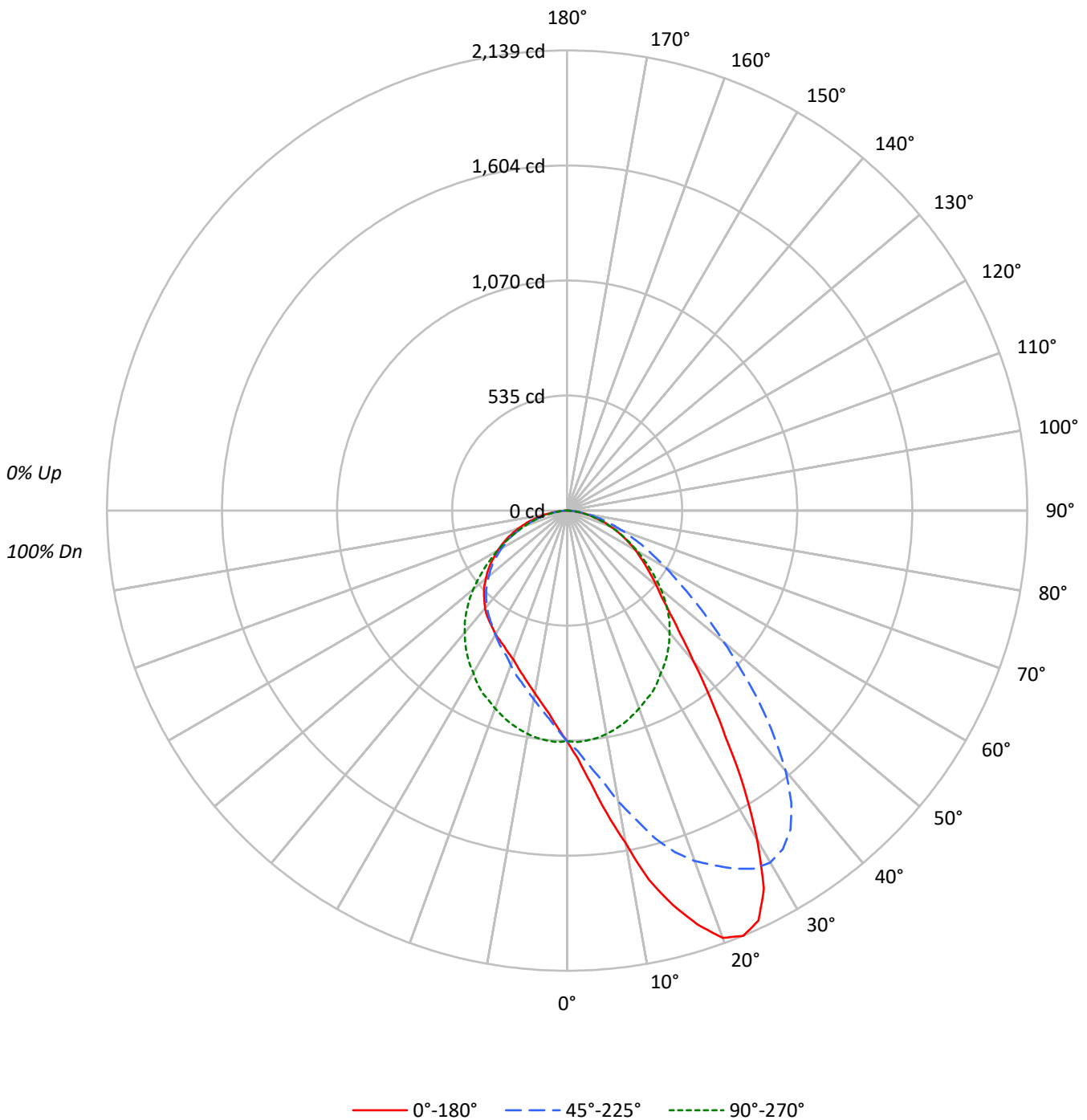
Lumens per Lamp: N/A
Luminaire Lumens: 3230.6 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.21 / 1.5
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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: P243339

CATALOG NUMBER: S123DRP-H1000D930-X4F0-XX-UDD-A-W

Luminous Intensity Polar Plot



TEST NUMBER: P243339

CATALOG NUMBER: S123DRP-H1000D930-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	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	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	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	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	50	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	51	44	39	50	43	39	49	43	38	36			36	
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33			33	
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29			29	
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	33	28	27			27	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12993	12993	12993	12993	12993
5°	15480	14476	13055	11806	11538
10°	19331	16909	12977	10964	10608
15°	23824	19783	12836	10341	9954
20°	27262	22355	12631	9870	9472
25°	28134	24557	12492	9525	9295
30°	24718	26435	12194	9336	9302
35°	18970	26777	12012	9216	9310
40°	14429	24991	11719	9187	9382
45°	11610	21673	11341	9137	9373
50°	10219	17928	10735	8978	9293
55°	9419	14998	9947	8838	9231
60°	8875	12802	9103	8543	9042
65°	8249	11120	8320	8206	8868
70°	7549	9689	7464	7549	8488
75°	6711	8275	6505	6758	7905
80°	5619	6820	5382	5787	6918
85°	3964	5048	3894	4367	5188

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 24331 cd/sqm



TEST NUMBER: P243339

CATALOG NUMBER: S123DRP-H1000D930-X4F0-XX-UDD-A-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.5	3.3
10°-20°	338.6	10.5
20°-30°	559.2	17.3
30°-40°	640.1	19.8
40°-50°	580.0	18.0
50°-60°	468.6	14.5
60°-70°	326.5	10.1
70°-80°	171.2	5.3
80°-90°	40.8	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°	1003.3	31.1
0°-40°	1643.3	50.9
0°-60°	2692.0	83.3
0°-90°	3230.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3230.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1072	1072	1072	1072	1072	
5°	1272	1190	1073	970	948	131
15°	1898	1576	1023	824	793	540
25°	2104	1836	934	712	695	940
35°	1282	1810	812	623	629	812
45°	677	1264	662	533	547	534
55°	446	710	471	418	437	400
65°	288	388	290	286	309	285
75°	143	177	139	144	169	153
85°	28	36	28	31	37	36
90°	0	0	0	0	0	



TEST NUMBER: P243339

CATALOG NUMBER: S123DRP-H1000D930-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1071.9	1071.9	1071.9	1071.9	1071.9	1071.9	1071.9	1071.9	1071.9	1071.9	1071.9
2.5°	1154.4	1156.9	1152.9	1155.4	1149.5	1146.1	1140.7	1138.2	1126.4	1118.1	1115.1
5°	1272.2	1272.2	1273.2	1267.3	1260.4	1248.1	1231.9	1221.6	1209.9	1189.7	1179.4
7.5°	1420.4	1413.1	1408.2	1397.4	1388.0	1367.9	1350.2	1329.1	1301.6	1268.3	1250.6
10°	1570.6	1578.5	1573.6	1562.3	1538.2	1505.3	1479.3	1448.9	1406.2	1373.8	1327.7
12.5°	1758.1	1747.8	1739.9	1722.8	1696.3	1661.4	1621.2	1576.0	1521.0	1467.5	1416.0
15°	1898.5	1899.9	1899.5	1876.9	1850.9	1803.7	1766.4	1691.4	1621.7	1576.5	1491.1
17.5°	2017.3	2023.6	2016.3	1982.4	1959.3	1931.4	1883.8	1800.3	1737.0	1663.9	1569.6
20°	2113.5	2114.4	2102.7	2077.6	2051.1	2019.7	1956.9	1893.1	1831.2	1733.1	1643.3
22.5°	2139.0	2141.4	2139.0	2128.2	2106.6	2073.2	2026.1	1967.2	1889.2	1784.6	1701.2
25°	2103.6	2102.2	2110.5	2104.1	2103.1	2092.3	2061.4	2013.8	1936.8	1836.1	1730.1
27.5°	1980.0	1969.6	1990.7	2018.2	2022.2	2039.3	2039.8	2017.7	1962.3	1876.4	1761.0
30°	1766.0	1775.8	1786.1	1843.5	1875.4	1920.1	1958.8	1973.1	1952.0	1888.7	1780.7
32.5°	1533.3	1564.7	1593.7	1633.4	1680.1	1755.6	1817.0	1871.0	1894.1	1866.1	1780.7
35°	1282.0	1298.7	1344.3	1394.9	1462.1	1521.0	1642.8	1721.3	1791.5	1809.6	1758.1
37.5°	1085.7	1100.9	1116.6	1155.9	1231.5	1329.6	1430.2	1533.3	1637.4	1712.0	1709.0
40°	911.9	915.4	929.1	963.0	1025.8	1113.2	1218.7	1342.9	1477.8	1579.4	1622.1
42.5°	778.4	778.4	795.6	834.9	871.2	935.0	1037.1	1146.5	1294.3	1424.8	1516.1
45°	677.3	678.3	692.1	720.0	748.5	798.6	874.1	977.2	1129.4	1264.3	1391.5
47.5°	594.9	604.2	612.0	626.8	655.2	699.4	754.4	842.2	950.7	1098.0	1246.2
50°	541.9	543.8	549.7	558.5	580.6	609.6	657.2	724.0	820.2	950.7	1100.4
52.5°	489.8	489.8	495.7	506.5	519.3	542.8	577.2	632.7	704.8	823.1	957.6
55°	445.7	447.1	448.1	456.9	467.7	485.4	512.4	548.7	615.0	709.7	827.0
57.5°	402.5	407.9	406.4	413.3	421.1	433.9	453.0	484.4	535.0	607.1	712.7
60°	366.1	365.2	367.6	370.6	376.0	384.8	402.5	425.5	467.7	528.1	614.5
62.5°	324.9	323.9	326.9	330.3	335.2	342.6	355.4	373.0	406.4	451.6	526.6
65°	287.6	286.6	288.1	290.1	295.5	301.4	311.2	325.9	348.0	387.7	445.2
67.5°	250.3	250.3	251.3	253.3	256.7	261.1	269.0	277.8	299.9	326.4	371.5
70°	213.0	213.5	213.5	215.5	218.4	221.8	228.2	236.1	249.8	273.4	309.7
72.5°	180.6	180.6	179.6	180.6	182.6	184.1	188.0	195.3	205.7	222.8	250.3
75°	143.3	145.8	145.3	144.8	146.3	148.7	152.2	158.0	164.4	176.7	197.3
77.5°	109.9	111.4	111.4	111.9	113.4	115.3	116.3	122.2	128.1	135.5	150.7
80°	80.5	81.5	80.5	81.0	82.0	83.9	85.9	86.9	91.3	97.7	105.0
82.5°	54.0	52.5	54.5	54.0	55.0	55.5	56.4	56.9	59.9	63.8	68.7
85°	28.5	30.9	30.4	31.4	30.4	30.9	31.4	33.4	33.9	36.3	39.3
87.5°	10.8	11.8	11.8	11.8	11.8	11.8	12.8	13.3	14.2	14.7	15.7
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: P243339

CATALOG NUMBER: S123DRP-H1000D930-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1071.9	1071.9	1071.9	1071.9	1071.9	1071.9	1071.9	1071.9	1071.9	1071.9	1071.9
2.5°	1117.1	1112.7	1106.3	1099.4	1092.1	1084.7	1081.3	1076.8	1068.0	1059.2	1052.3
5°	1171.1	1158.8	1142.1	1129.9	1112.2	1095.5	1082.2	1072.9	1058.7	1041.5	1030.2
7.5°	1231.5	1209.4	1182.9	1155.9	1129.4	1104.3	1083.7	1066.1	1044.0	1022.9	1005.7
10°	1302.6	1259.9	1223.1	1183.8	1144.6	1109.2	1079.8	1054.3	1025.8	1000.3	979.2
12.5°	1365.4	1315.9	1264.8	1209.4	1156.4	1110.7	1072.9	1039.5	1005.2	975.7	954.1
15°	1434.7	1365.0	1294.3	1231.5	1167.2	1111.2	1061.6	1022.9	983.6	950.2	925.2
17.5°	1514.2	1420.9	1332.1	1241.8	1184.8	1112.7	1051.8	1000.8	960.5	927.2	894.8
20°	1561.3	1468.5	1359.6	1266.8	1172.6	1098.4	1030.7	979.2	932.1	893.8	867.3
22.5°	1586.8	1489.1	1375.3	1280.0	1170.1	1087.2	1015.0	954.1	903.6	865.3	835.4
25°	1622.6	1489.1	1383.6	1269.2	1174.0	1073.9	992.4	934.0	881.0	836.8	805.4
27.5°	1638.8	1502.4	1384.6	1248.6	1150.5	1048.9	966.4	904.6	845.7	802.5	775.5
30°	1652.1	1504.8	1365.0	1232.4	1123.0	1020.9	940.4	871.2	816.2	775.0	746.5
32.5°	1653.1	1498.5	1338.5	1202.0	1086.2	988.0	909.5	844.2	786.8	743.1	715.1
35°	1644.2	1482.8	1308.0	1155.4	1043.5	954.1	875.6	811.8	753.4	711.7	683.2
37.5°	1621.7	1465.1	1279.6	1111.7	992.9	906.0	839.3	778.4	720.5	678.8	655.2
40°	1573.6	1436.6	1242.3	1065.1	941.9	855.0	796.6	740.6	689.1	645.9	622.4
42.5°	1509.7	1393.9	1197.1	1015.5	884.9	801.0	749.5	704.3	651.8	614.5	590.5
45°	1419.4	1336.0	1151.9	963.5	828.5	746.0	698.9	661.6	616.5	579.2	558.1
47.5°	1317.3	1266.3	1093.5	905.1	769.1	691.6	646.9	617.0	578.7	546.8	525.7
50°	1202.5	1183.4	1029.2	846.2	713.6	634.1	592.9	569.3	537.0	511.4	493.3
52.5°	1077.8	1089.6	961.5	786.3	660.1	579.7	540.4	518.8	498.2	476.6	459.4
55°	951.2	979.2	879.5	721.0	598.8	528.6	490.3	470.7	455.5	437.3	425.0
57.5°	832.4	876.1	794.6	651.3	542.4	475.1	438.8	421.6	410.3	400.5	389.2
60°	717.1	767.6	707.3	586.0	485.9	424.6	392.2	375.5	370.1	362.7	351.9
62.5°	615.0	666.5	621.4	518.8	429.0	376.5	347.0	333.3	325.4	323.0	316.6
65°	519.3	567.4	533.0	448.6	375.0	328.4	302.3	290.1	285.7	285.2	280.3
67.5°	436.3	483.0	451.6	380.4	318.0	280.3	260.6	250.8	246.4	246.9	243.4
70°	359.8	392.7	374.0	318.0	269.9	236.6	221.4	210.6	207.1	207.1	206.1
72.5°	288.6	314.6	300.4	257.7	219.9	194.4	181.1	174.7	171.8	171.3	171.8
75°	225.8	248.4	235.6	202.2	173.7	154.6	143.3	138.9	137.4	136.4	136.9
77.5°	168.8	183.1	175.2	153.6	130.1	116.8	111.4	107.0	105.5	106.0	107.0
80°	119.3	127.1	122.7	109.0	93.3	84.4	80.5	77.1	75.6	77.1	77.1
82.5°	75.6	81.5	77.5	68.7	60.9	55.0	51.0	50.1	49.6	48.6	50.1
85°	41.2	44.2	42.2	39.3	33.9	31.4	28.5	28.0	28.0	28.0	28.0
87.5°	16.2	18.2	15.7	15.7	14.7	12.3	12.3	11.8	11.3	11.8	11.8
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: P243339

CATALOG NUMBER: S123DRP-H1000D930-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1071.9	1071.9	1071.9	1071.9	1071.9	1071.9	1071.9	1071.9	1071.9	1071.9	1071.9
2.5°	1049.4	1043.0	1039.1	1033.7	1027.3	1018.9	1015.5	1018.9	1017.0	1013.5	1015.0
5°	1020.4	1012.1	1001.3	992.4	982.6	970.3	966.4	964.5	961.5	960.0	957.6
7.5°	991.9	979.7	966.4	954.1	939.9	929.1	924.2	920.8	919.8	912.4	909.5
10°	962.5	947.3	934.0	917.3	905.1	890.8	884.9	881.0	876.6	871.7	868.3
12.5°	931.6	916.4	899.7	884.0	871.7	856.0	848.1	843.7	840.3	836.8	832.9
15°	904.6	889.4	866.3	854.5	839.8	824.1	819.2	809.4	810.3	804.4	800.5
17.5°	876.1	853.5	837.3	819.7	808.9	797.6	788.3	777.9	776.5	772.1	770.6
20°	844.2	820.6	809.4	791.2	776.5	765.2	756.8	755.9	752.9	746.5	744.1
22.5°	812.8	793.6	777.9	761.3	748.0	733.3	729.4	730.8	725.4	724.0	718.6
25°	784.3	767.6	748.0	732.3	721.5	712.2	706.8	704.8	702.8	701.4	698.9
27.5°	753.9	736.2	719.5	706.8	696.5	690.1	686.7	682.2	681.7	681.7	680.8
30°	723.5	707.8	696.5	680.3	670.9	667.0	664.1	662.6	664.1	664.1	664.6
32.5°	695.5	680.3	667.0	655.7	646.4	643.5	643.0	643.0	644.9	644.9	646.4
35°	666.5	651.3	639.0	631.2	623.3	622.8	623.3	624.3	626.8	627.3	629.2
37.5°	635.1	623.3	614.0	604.2	602.2	603.2	604.2	605.2	606.2	610.1	610.1
40°	606.2	597.3	588.0	581.6	578.2	580.6	582.1	582.6	585.5	588.0	590.0
42.5°	577.7	569.3	562.0	556.6	555.1	557.1	558.5	560.0	563.0	564.9	568.4
45°	545.8	540.4	534.0	529.6	530.1	533.0	533.0	537.9	539.9	540.9	543.3
47.5°	516.3	510.4	506.0	504.1	503.6	506.0	507.5	511.4	512.4	515.8	517.8
50°	484.9	480.5	477.1	474.6	475.1	476.1	479.5	483.5	484.4	488.4	491.8
52.5°	452.0	448.1	445.2	446.2	447.6	447.6	451.1	453.5	456.0	458.9	462.3
55°	419.6	414.2	414.7	413.3	414.7	418.2	419.6	423.6	425.5	427.0	431.9
57.5°	384.3	383.3	381.9	380.4	383.3	384.8	387.3	389.7	393.1	395.1	398.5
60°	348.0	346.5	346.5	348.5	349.5	352.4	356.3	357.8	358.8	362.7	367.1
62.5°	314.6	313.1	312.6	315.6	315.6	318.5	320.0	322.5	326.4	327.9	333.8
65°	278.8	277.8	277.8	280.3	280.7	286.1	286.1	286.1	288.6	294.0	296.9
67.5°	241.5	242.0	243.4	244.9	246.9	248.4	248.8	251.8	255.7	259.2	265.0
70°	204.2	206.6	209.6	209.1	210.6	213.0	213.5	216.4	219.9	224.3	231.2
72.5°	170.8	172.3	175.2	175.2	177.2	178.7	181.1	183.1	187.5	191.4	194.4
75°	137.4	137.9	140.4	141.8	143.3	144.3	146.8	150.2	152.6	156.1	160.5
77.5°	108.0	107.0	109.0	109.5	110.4	112.4	114.4	117.8	119.8	123.7	125.2
80°	76.6	78.5	79.0	79.5	80.5	82.9	84.4	85.9	87.9	91.3	92.8
82.5°	50.6	51.5	53.0	53.5	54.5	55.0	55.5	57.9	59.4	60.4	65.3
85°	29.4	30.9	29.9	29.9	30.9	31.4	33.4	33.4	35.3	34.4	36.8
87.5°	12.8	12.3	12.3	12.8	12.3	11.8	13.3	13.3	12.8	13.3	13.3
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: P243339

CATALOG NUMBER: S123DRP-H1000D930-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1071.9	1071.9	1071.9	1071.9
2.5°	1012.6	1012.6	1008.6	1010.1
5°	952.7	954.6	949.7	948.3
7.5°	908.5	906.5	903.1	903.1
10°	865.3	863.3	861.9	861.9
12.5°	828.0	826.0	823.1	825.6
15°	794.6	795.1	793.2	793.2
17.5°	769.1	764.7	763.2	762.7
20°	738.7	739.7	737.7	734.3
22.5°	719.5	717.1	715.1	714.6
25°	699.9	697.4	697.0	695.0
27.5°	680.3	680.8	679.3	679.3
30°	664.1	665.5	664.1	664.6
32.5°	647.9	647.9	647.9	645.9
35°	630.2	630.7	630.2	629.2
37.5°	612.0	612.0	612.5	613.5
40°	591.9	591.9	592.9	592.9
42.5°	567.9	570.3	571.8	569.3
45°	546.3	546.8	547.3	546.8
47.5°	522.2	520.8	521.2	522.2
50°	492.3	495.7	495.7	492.8
52.5°	463.3	464.3	466.3	466.3
55°	434.9	435.4	435.8	436.8
57.5°	402.5	403.0	403.0	402.5
60°	370.1	373.0	372.5	373.0
62.5°	335.2	339.6	341.1	340.6
65°	302.3	303.3	305.8	309.2
67.5°	267.5	269.9	273.9	272.9
70°	233.1	236.6	237.6	239.5
72.5°	198.8	203.2	204.2	205.2
75°	165.4	167.4	169.3	168.8
77.5°	129.1	132.0	135.5	133.5
80°	96.7	97.2	100.1	99.1
82.5°	63.8	67.7	67.7	65.8
85°	37.3	37.3	37.3	37.3
87.5°	12.8	12.3	13.3	12.8
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243339
 CATALOG NUMBER: S123DRP-H1000D930-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	19.31	20.87	19.67	21.18	21.50	19.84	21.40	20.20	21.71	22.03
	3H	20.83	22.23	21.21	22.56	22.92	21.18	22.58	21.56	22.91	23.27
	4H	21.37	22.69	21.77	23.04	23.42	21.63	22.95	22.03	23.30	23.68
	6H	21.74	22.95	22.15	23.32	23.71	21.93	23.15	22.35	23.52	23.91
	8H	21.83	22.99	22.26	23.38	23.78	22.01	23.17	22.44	23.56	23.96
	12H	21.89	23.00	22.32	23.38	23.81	22.05	23.16	22.48	23.54	23.97
4H	2H	20.47	21.79	20.87	22.14	22.52	20.63	21.95	21.03	22.30	22.67
	3H	22.03	23.13	22.44	23.53	23.93	22.42	23.52	22.83	23.92	24.32
	4H	22.63	23.61	23.06	24.03	24.47	22.98	23.97	23.42	24.39	24.82
	6H	23.05	23.91	23.51	24.36	24.81	23.35	24.21	23.81	24.65	25.11
	8H	23.17	23.98	23.63	24.42	24.89	23.44	24.25	23.90	24.69	25.16
	12H	23.25	23.97	23.73	24.44	24.91	23.50	24.22	23.98	24.69	25.16
8H	4H	23.09	23.89	23.55	24.34	24.80	23.29	24.09	23.75	24.54	25.00
	6H	23.59	24.25	24.08	24.74	25.22	23.80	24.46	24.29	24.95	25.43
	8H	23.75	24.35	24.26	24.86	25.34	23.94	24.54	24.46	25.05	25.54
	12H	23.87	24.40	24.38	24.89	25.45	24.04	24.57	24.55	25.06	25.63
12H	4H	23.14	23.86	23.62	24.33	24.80	23.30	24.02	23.78	24.50	24.97
	6H	23.66	24.26	24.17	24.76	25.25	23.83	24.43	24.34	24.94	25.42
	8H	23.87	24.39	24.37	24.89	25.45	24.04	24.56	24.54	25.05	25.62