

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: P243344

Luminaire Tested: S123DRP-H1000D935-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243344
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-H1000D935-X4F0-XX-UDD-A-W
Description: DEFINE 3 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

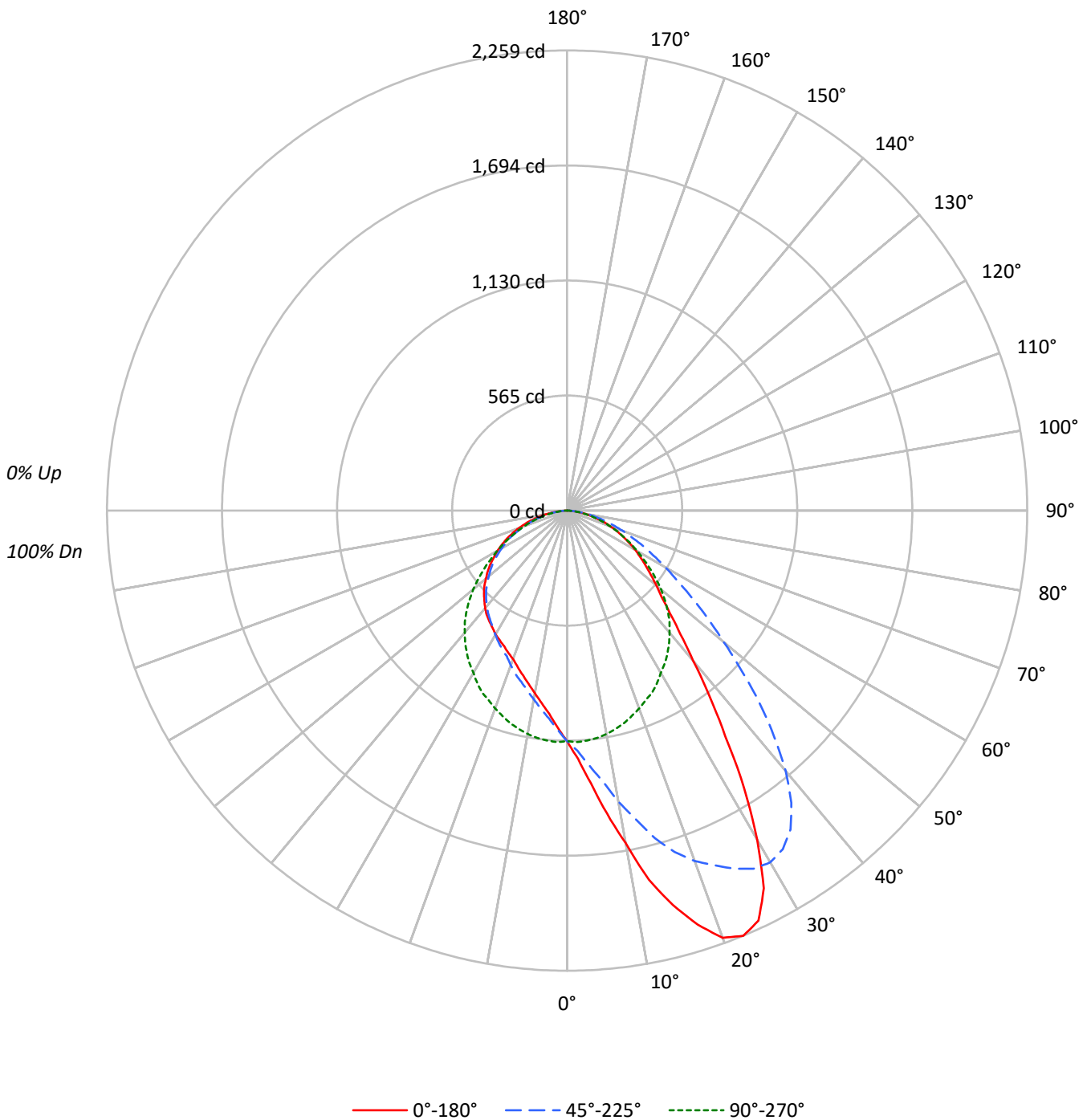
Lumens per Lamp: N/A
Luminaire Lumens: 3411.7 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.21 / 1.5
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')
CIE Type: Direct

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

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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	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°	13721	13721	13721	13721	13721
5°	16347	15287	13787	12468	12185
10°	20414	17857	13704	11580	11203
15°	25159	20893	13555	10921	10511
20°	28790	23608	13339	10424	10002
25°	29712	25934	13192	10059	9817
30°	26102	27916	12877	9859	9823
35°	20034	28279	12686	9734	9833
40°	15239	26393	12377	9703	9907
45°	12262	22888	11977	9649	9898
50°	10790	18933	11339	9481	9813
55°	9945	15839	10505	9332	9749
60°	9375	13520	9612	9023	9549
65°	8710	11745	8785	8667	9364
70°	7974	10232	7882	7974	8963
75°	7090	8739	6870	7137	8350
80°	5933	7197	5682	6115	7308
85°	4186	5340	4103	4617	5480

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 25696 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	3.3
10°-20°	357.6	10.5
20°-30°	590.6	17.3
30°-40°	675.9	19.8
40°-50°	612.5	18.0
50°-60°	494.9	14.5
60°-70°	344.8	10.1
70°-80°	180.8	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°	1059.5	31.1
0°-40°	1735.5	50.9
0°-60°	2842.9	83.3
0°-90°	3411.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3411.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1132	1132	1132	1132	1132	
5°	1344	1256	1133	1025	1001	138
15°	2005	1665	1080	870	838	571
25°	2222	1939	986	752	734	993
35°	1354	1911	857	658	664	858
45°	715	1335	699	563	577	564
55°	471	750	497	442	461	423
65°	304	410	306	302	326	301
75°	151	187	147	152	178	162
85°	30	38	30	33	39	38
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°	1132.0	1132.0	1132.0	1132.0	1132.0	1132.0	1132.0	1132.0	1132.0	1132.0	1132.0
2.5°	1219.1	1221.7	1217.6	1220.1	1213.9	1210.3	1204.6	1202.0	1189.6	1180.8	1177.6
5°	1343.5	1343.5	1344.5	1338.3	1331.1	1318.1	1301.0	1290.1	1277.7	1256.4	1245.5
7.5°	1500.0	1492.3	1487.1	1475.7	1465.8	1444.6	1425.9	1403.6	1374.6	1339.4	1320.7
10°	1658.6	1666.9	1661.8	1649.8	1624.4	1589.7	1562.2	1530.1	1485.0	1450.8	1402.1
12.5°	1856.7	1845.8	1837.5	1819.3	1791.3	1754.5	1712.0	1664.4	1606.3	1549.8	1495.4
15°	2004.9	2006.4	2005.9	1982.1	1954.6	1904.9	1865.5	1786.2	1712.6	1664.9	1574.7
17.5°	2130.3	2137.1	2129.3	2093.5	2069.2	2039.6	1989.3	1901.2	1834.4	1757.1	1657.6
20°	2231.9	2233.0	2220.5	2194.1	2166.1	2132.9	2066.6	1999.2	1933.9	1830.2	1735.4
22.5°	2258.9	2261.5	2258.9	2247.5	2224.7	2189.4	2139.7	2077.5	1995.0	1884.6	1796.5
25°	2221.6	2220.0	2228.8	2222.1	2221.0	2209.6	2177.0	2126.7	2045.3	1939.1	1827.1
27.5°	2090.9	2080.1	2102.3	2131.4	2135.5	2153.7	2154.2	2130.8	2072.3	1981.6	1859.8
30°	1864.9	1875.3	1886.2	1946.8	1980.5	2027.7	2068.6	2083.7	2061.4	1994.5	1880.5
32.5°	1619.3	1652.4	1683.0	1725.0	1774.2	1854.1	1918.9	1975.9	2000.2	1970.7	1880.5
35°	1353.9	1371.5	1419.7	1473.1	1544.1	1606.3	1734.8	1817.8	1891.9	1911.1	1856.7
37.5°	1146.5	1162.6	1179.2	1220.7	1300.5	1404.2	1510.4	1619.3	1729.1	1807.9	1804.8
40°	963.1	966.7	981.2	1017.0	1083.3	1175.6	1287.0	1418.1	1560.7	1668.0	1713.1
42.5°	822.1	822.1	840.2	881.7	920.0	987.4	1095.2	1210.8	1366.8	1504.7	1601.1
45°	715.3	716.3	730.8	760.4	790.5	843.3	923.1	1032.0	1192.7	1335.2	1469.5
47.5°	628.2	638.1	646.4	661.9	692.0	738.6	796.7	889.5	1004.0	1159.5	1316.0
50°	572.2	574.3	580.5	589.9	613.2	643.8	694.0	764.5	866.1	1004.0	1162.1
52.5°	517.3	517.3	523.5	534.9	548.4	573.3	609.6	668.1	744.3	869.2	1011.3
55°	470.6	472.2	473.2	482.6	494.0	512.6	541.1	579.5	649.5	749.5	873.4
57.5°	425.0	430.7	429.2	436.4	444.7	458.2	478.4	511.6	565.0	641.2	752.6
60°	386.7	385.6	388.2	391.3	397.0	406.4	425.0	449.4	494.0	557.7	648.9
62.5°	343.1	342.1	345.2	348.8	354.0	361.8	375.3	393.9	429.2	476.9	556.2
65°	303.7	302.7	304.3	306.3	312.0	318.3	328.6	344.2	367.5	409.5	470.1
67.5°	264.3	264.3	265.4	267.5	271.1	275.8	284.0	293.4	316.7	344.7	392.4
70°	225.0	225.5	225.5	227.5	230.7	234.3	241.0	249.3	263.8	288.7	327.1
72.5°	190.7	190.7	189.7	190.7	192.8	194.4	198.5	206.3	217.2	235.3	264.3
75°	151.4	153.9	153.4	152.9	154.5	157.1	160.7	166.9	173.6	186.6	208.4
77.5°	116.1	117.7	117.7	118.2	119.7	121.8	122.8	129.1	135.3	143.1	159.1
80°	85.0	86.0	85.0	85.5	86.6	88.6	90.7	91.7	96.4	103.1	110.9
82.5°	57.0	55.5	57.5	57.0	58.1	58.6	59.6	60.1	63.2	67.4	72.6
85°	30.1	32.7	32.1	33.2	32.1	32.7	33.2	35.2	35.8	38.4	41.5
87.5°	11.4	12.4	12.4	12.4	12.4	12.4	13.5	14.0	15.0	15.5	16.6
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1132.0	1132.0	1132.0	1132.0	1132.0	1132.0	1132.0	1132.0	1132.0	1132.0	1132.0
2.5°	1179.7	1175.0	1168.3	1161.1	1153.3	1145.5	1141.9	1137.2	1127.9	1118.6	1111.3
5°	1236.7	1223.8	1206.1	1193.2	1174.5	1156.9	1142.9	1133.1	1118.0	1099.9	1088.0
7.5°	1300.5	1277.2	1249.2	1220.7	1192.7	1166.2	1144.5	1125.8	1102.5	1080.2	1062.1
10°	1375.6	1330.5	1291.7	1250.2	1208.7	1171.4	1140.3	1113.4	1083.3	1056.4	1034.1
12.5°	1442.0	1389.6	1335.7	1277.2	1221.2	1173.0	1133.1	1097.8	1061.5	1030.4	1007.6
15°	1515.1	1441.5	1366.8	1300.5	1232.6	1173.5	1121.1	1080.2	1038.7	1003.5	977.0
17.5°	1599.0	1500.6	1406.7	1311.4	1251.2	1175.0	1110.8	1056.9	1014.4	979.1	944.9
20°	1648.8	1550.8	1435.8	1337.8	1238.3	1160.0	1088.5	1034.1	984.3	943.9	915.9
22.5°	1675.8	1572.6	1452.4	1351.8	1235.7	1148.1	1071.9	1007.6	954.2	913.8	882.2
25°	1713.6	1572.6	1461.2	1340.4	1239.8	1134.1	1048.1	986.4	930.4	883.7	850.6
27.5°	1730.7	1586.6	1462.2	1318.6	1215.0	1107.7	1020.6	955.3	893.1	847.5	819.0
30°	1744.7	1589.2	1441.5	1301.5	1185.9	1078.1	993.1	920.0	862.0	818.4	788.4
32.5°	1745.7	1582.5	1413.5	1269.4	1147.1	1043.4	960.5	891.5	830.9	784.7	755.2
35°	1736.4	1565.9	1381.3	1220.1	1102.0	1007.6	924.7	857.3	795.6	751.6	721.5
37.5°	1712.6	1547.2	1351.3	1174.0	1048.6	956.8	886.3	822.1	760.9	716.8	692.0
40°	1661.8	1517.1	1311.9	1124.8	994.7	902.9	841.2	782.2	727.7	682.1	657.2
42.5°	1594.4	1472.1	1264.2	1072.4	934.5	845.9	791.5	743.8	688.3	648.9	623.5
45°	1499.0	1410.9	1216.5	1017.5	874.9	787.9	738.1	698.7	651.0	611.6	589.3
47.5°	1391.2	1337.3	1154.8	955.8	812.2	730.3	683.2	651.5	611.1	577.4	555.1
50°	1269.9	1249.7	1086.9	893.6	753.6	669.7	626.1	601.3	567.1	540.1	520.9
52.5°	1138.2	1150.7	1015.4	830.4	697.2	612.1	570.7	547.9	526.1	503.3	485.2
55°	1004.5	1034.1	928.8	761.4	632.4	558.2	517.8	497.1	481.0	461.8	448.9
57.5°	879.1	925.2	839.2	687.8	572.8	501.7	463.4	445.2	433.3	423.0	411.0
60°	757.3	810.7	746.9	618.9	513.1	448.4	414.1	396.5	390.8	383.0	371.6
62.5°	649.5	703.9	656.2	547.9	453.0	397.6	366.5	351.9	343.7	341.1	334.3
65°	548.4	599.2	562.9	473.8	396.0	346.8	319.3	306.3	301.7	301.1	296.0
67.5°	460.8	510.0	476.9	401.7	335.9	296.0	275.2	264.9	260.2	260.7	257.1
70°	379.9	414.7	395.0	335.9	285.1	249.8	233.8	222.4	218.7	218.7	217.7
72.5°	304.8	332.2	317.2	272.1	232.2	205.3	191.3	184.5	181.4	180.9	181.4
75°	238.4	262.3	248.8	213.6	183.5	163.3	151.4	146.7	145.1	144.1	144.6
77.5°	178.3	193.3	185.0	162.2	137.4	123.4	117.7	113.0	111.4	112.0	113.0
80°	126.0	134.2	129.6	115.1	98.5	89.2	85.0	81.4	79.8	81.4	81.4
82.5°	79.8	86.0	81.9	72.6	64.3	58.1	53.9	52.9	52.4	51.3	52.9
85°	43.5	46.6	44.6	41.5	35.8	33.2	30.1	29.5	29.5	29.5	29.5
87.5°	17.1	19.2	16.6	16.6	15.5	13.0	13.0	12.4	11.9	12.4	12.4
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°	1132.0	1132.0	1132.0	1132.0	1132.0	1132.0	1132.0	1132.0	1132.0	1132.0	1132.0
2.5°	1108.2	1101.4	1097.3	1091.6	1084.9	1076.0	1072.4	1076.0	1074.0	1070.3	1071.9
5°	1077.6	1068.8	1057.4	1048.1	1037.7	1024.7	1020.6	1018.5	1015.4	1013.8	1011.3
7.5°	1047.5	1034.6	1020.6	1007.6	992.6	981.2	976.0	972.4	971.3	963.6	960.5
10°	1016.4	1000.4	986.4	968.8	955.8	940.8	934.5	930.4	925.7	920.6	916.9
12.5°	983.8	967.7	950.1	933.5	920.6	904.0	895.7	891.0	887.4	883.7	879.6
15°	955.3	939.2	914.8	902.4	886.9	870.3	865.1	854.7	855.8	849.5	845.4
17.5°	925.2	901.4	884.3	865.6	854.2	842.3	832.4	821.5	820.0	815.3	813.8
20°	891.5	866.6	854.7	835.5	820.0	808.1	799.3	798.2	795.1	788.4	785.8
22.5°	858.4	838.1	821.5	803.9	789.9	774.4	770.2	771.8	766.1	764.5	758.8
25°	828.3	810.7	789.9	773.3	761.9	752.1	746.4	744.3	742.2	740.7	738.1
27.5°	796.2	777.5	759.9	746.4	735.5	728.8	725.1	720.5	720.0	720.0	718.9
30°	764.0	747.4	735.5	718.4	708.6	704.4	701.3	699.7	701.3	701.3	701.8
32.5°	734.5	718.4	704.4	692.5	682.6	679.5	679.0	679.0	681.1	681.1	682.6
35°	703.9	687.8	674.9	666.6	658.3	657.8	658.3	659.3	661.9	662.4	664.5
37.5°	670.7	658.3	648.4	638.1	636.0	637.0	638.1	639.1	640.1	644.3	644.3
40°	640.1	630.8	621.0	614.2	610.6	613.2	614.7	615.3	618.4	621.0	623.0
42.5°	610.1	601.3	593.5	587.8	586.2	588.3	589.9	591.4	594.5	596.6	600.2
45°	576.4	570.7	563.9	559.3	559.8	562.9	562.9	568.1	570.2	571.2	573.8
47.5°	545.3	539.1	534.4	532.3	531.8	534.4	536.0	540.1	541.1	544.8	546.8
50°	512.1	507.4	503.8	501.2	501.7	502.8	506.4	510.6	511.6	515.7	519.4
52.5°	477.4	473.2	470.1	471.2	472.7	472.7	476.3	478.9	481.5	484.6	488.3
55°	443.2	437.5	438.0	436.4	438.0	441.6	443.2	447.3	449.4	450.9	456.1
57.5°	405.9	404.8	403.3	401.7	404.8	406.4	409.0	411.6	415.2	417.3	420.9
60°	367.5	365.9	365.9	368.0	369.0	372.2	376.3	377.9	378.9	383.0	387.7
62.5°	332.2	330.7	330.2	333.3	333.3	336.4	337.9	340.5	344.7	346.2	352.5
65°	294.4	293.4	293.4	296.0	296.5	302.2	302.2	302.2	304.8	310.5	313.6
67.5°	255.0	255.5	257.1	258.6	260.7	262.3	262.8	265.9	270.0	273.7	279.9
70°	215.6	218.2	221.3	220.8	222.4	225.0	225.5	228.6	232.2	236.9	244.1
72.5°	180.4	181.9	185.0	185.0	187.1	188.7	191.3	193.3	198.0	202.1	205.3
75°	145.1	145.7	148.2	149.8	151.4	152.4	155.0	158.6	161.2	164.8	169.5
77.5°	114.0	113.0	115.1	115.6	116.6	118.7	120.8	124.4	126.5	130.6	132.2
80°	80.9	82.9	83.5	84.0	85.0	87.6	89.2	90.7	92.8	96.4	98.0
82.5°	53.4	54.4	56.0	56.5	57.5	58.1	58.6	61.2	62.7	63.8	68.9
85°	31.1	32.7	31.6	31.6	32.7	33.2	35.2	35.2	37.3	36.3	38.9
87.5°	13.5	13.0	13.0	13.5	13.0	12.4	14.0	14.0	13.5	14.0	14.0
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: P243344

CATALOG NUMBER: S123DRP-H1000D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1132.0	1132.0	1132.0	1132.0
2.5°	1069.3	1069.3	1065.2	1066.7
5°	1006.1	1008.1	1003.0	1001.4
7.5°	959.4	957.4	953.7	953.7
10°	913.8	911.7	910.2	910.2
12.5°	874.4	872.3	869.2	871.8
15°	839.2	839.7	837.6	837.6
17.5°	812.2	807.6	806.0	805.5
20°	780.1	781.1	779.0	775.4
22.5°	759.9	757.3	755.2	754.7
25°	739.1	736.5	736.0	734.0
27.5°	718.4	718.9	717.4	717.4
30°	701.3	702.9	701.3	701.8
32.5°	684.2	684.2	684.2	682.1
35°	665.5	666.1	665.5	664.5
37.5°	646.4	646.4	646.9	647.9
40°	625.1	625.1	626.1	626.1
42.5°	599.7	602.3	603.9	601.3
45°	576.9	577.4	577.9	577.4
47.5°	551.5	549.9	550.5	551.5
50°	519.9	523.5	523.5	520.4
52.5°	489.3	490.3	492.4	492.4
55°	459.2	459.8	460.3	461.3
57.5°	425.0	425.5	425.5	425.0
60°	390.8	393.9	393.4	393.9
62.5°	354.0	358.7	360.2	359.7
65°	319.3	320.3	322.9	326.5
67.5°	282.5	285.1	289.2	288.2
70°	246.2	249.8	250.9	252.9
72.5°	209.9	214.6	215.6	216.7
75°	174.7	176.7	178.8	178.3
77.5°	136.3	139.4	143.1	141.0
80°	102.1	102.6	105.7	104.7
82.5°	67.4	71.5	71.5	69.5
85°	39.4	39.4	39.4	39.4
87.5°	13.5	13.0	14.0	13.5
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243344
 CATALOG NUMBER: S123DRP-H1000D935-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	19.50	21.06	19.86	21.37	21.69	20.03	21.59	20.39	21.90	22.22
	3H	21.02	22.42	21.39	22.75	23.11	21.37	22.77	21.74	23.10	23.46
	4H	21.56	22.88	21.96	23.23	23.61	21.82	23.14	22.22	23.49	23.87
	6H	21.92	23.14	22.34	23.51	23.90	22.12	23.34	22.54	23.71	24.10
	8H	22.02	23.18	22.45	23.57	23.97	22.20	23.36	22.62	23.75	24.15
	12H	22.07	23.19	22.50	23.57	24.00	22.24	23.35	22.67	23.73	24.16
4H	2H	20.66	21.98	21.06	22.33	22.70	20.82	22.14	21.22	22.49	22.86
	3H	22.22	23.32	22.63	23.71	24.12	22.61	23.71	23.02	24.11	24.51
	4H	22.81	23.80	23.25	24.22	24.66	23.17	24.16	23.61	24.58	25.01
	6H	23.24	24.10	23.70	24.54	25.00	23.54	24.40	24.00	24.84	25.30
	8H	23.36	24.17	23.82	24.61	25.08	23.63	24.44	24.09	24.88	25.35
	12H	23.44	24.16	23.92	24.63	25.10	23.69	24.41	24.17	24.88	25.35
8H	4H	23.28	24.08	23.74	24.53	24.99	23.48	24.28	23.94	24.73	25.19
	6H	23.78	24.44	24.27	24.93	25.41	23.99	24.65	24.48	25.14	25.62
	8H	23.94	24.54	24.45	25.05	25.53	24.13	24.73	24.65	25.24	25.73
	12H	24.06	24.59	24.57	25.08	25.64	24.23	24.76	24.74	25.25	25.82
12H	4H	23.33	24.05	23.81	24.52	24.99	23.49	24.21	23.97	24.69	25.16
	6H	23.85	24.45	24.36	24.95	25.44	24.02	24.62	24.53	25.13	25.61
	8H	24.06	24.58	24.56	25.07	25.64	24.22	24.75	24.73	25.24	25.81