

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: P243345

Luminaire Tested: S123DRP-H1165D935-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243345
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-H1165D935-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

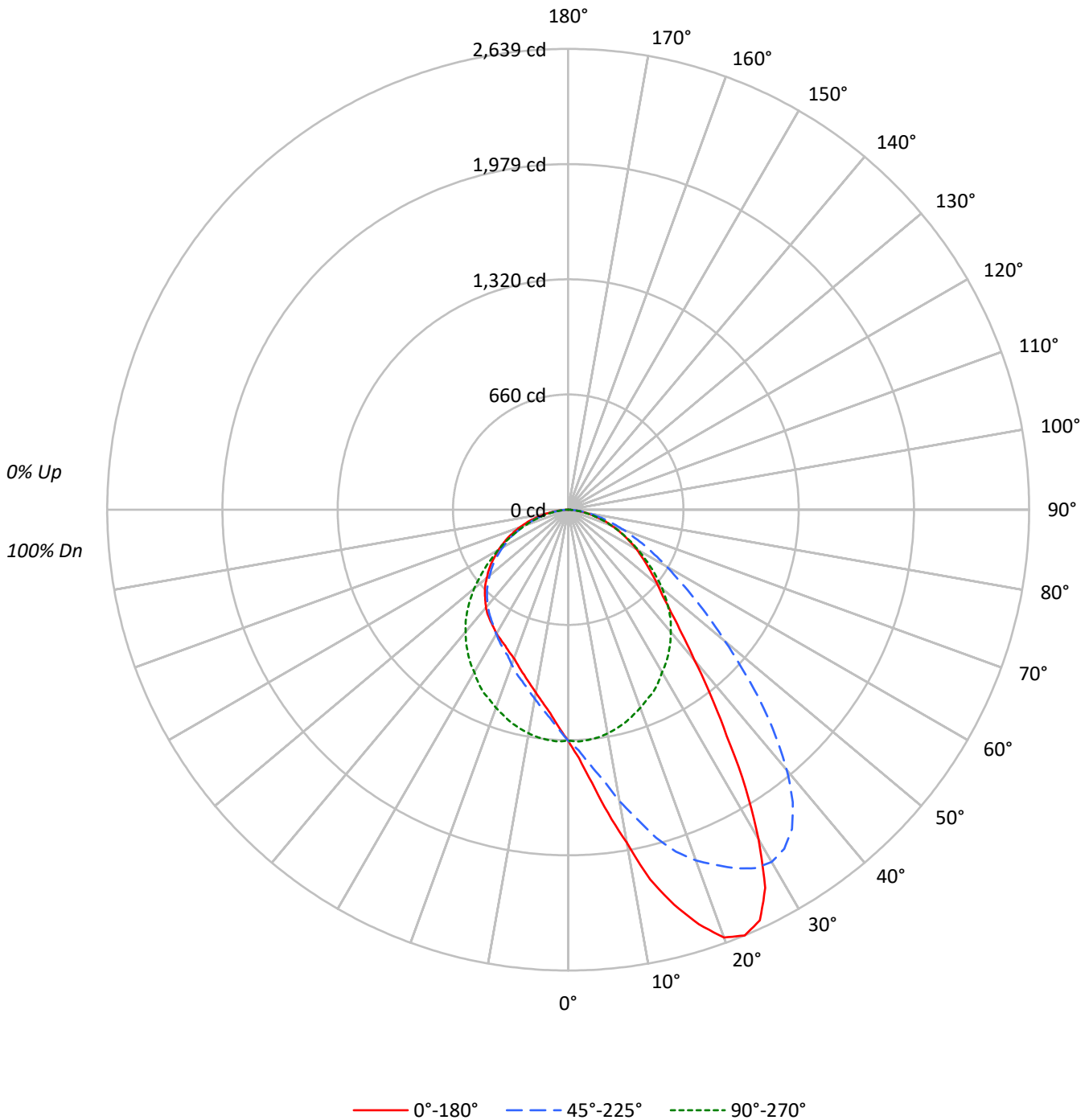
Lumens per Lamp: N/A
Luminaire Lumens: 3985.5 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.21 / 1.5
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')
CIE Type: Direct

Input Watts (W): 37.7
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: P243345

CATALOG NUMBER: S123DRP-H1165D935-X4F0-XX-UDD-A-W

Luminous Intensity Polar Plot



TEST NUMBER: P243345

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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°	16029	16029	16029	16029	16029
5°	19097	17858	16105	14566	14234
10°	23848	20860	16008	13527	13087
15°	29391	24406	15835	12757	12279
20°	33632	27578	15582	12177	11684
25°	34709	30295	15411	11751	11467
30°	30493	32612	15043	11518	11476
35°	23403	33035	14819	11370	11487
40°	17801	30831	14458	11334	11575
45°	14324	26738	13991	11273	11562
50°	12606	22118	13245	11075	11463
55°	11619	18504	12272	10902	11388
60°	10950	15794	11229	10541	11156
65°	10176	13718	10265	10124	10942
70°	9314	11954	9207	9314	10473
75°	8280	10210	8027	8336	9755
80°	6931	8411	6638	7141	8537
85°	4882	6231	4798	5396	6397

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 30017 cd/sqm



TEST NUMBER: P243345

CATALOG NUMBER: S123DRP-H1165D935-X4F0-XX-UDD-A-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.1	3.3
10°-20°	417.7	10.5
20°-30°	689.9	17.3
30°-40°	789.6	19.8
40°-50°	715.5	18.0
50°-60°	578.2	14.5
60°-70°	402.8	10.1
70°-80°	211.2	5.3
80°-90°	50.4	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°	1237.7	31.1
0°-40°	2027.4	50.9
0°-60°	3321.1	83.3
0°-90°	3985.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3985.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1322	1322	1322	1322	1322	
5°	1570	1468	1324	1197	1170	162
15°	2342	1945	1262	1017	978	667
25°	2595	2265	1152	879	857	1160
35°	1582	2232	1002	768	776	1002
45°	836	1560	816	658	674	659
55°	550	876	581	516	539	494
65°	355	478	358	353	382	352
75°	177	218	171	178	208	189
85°	35	45	34	39	46	45
90°	0	0	0	0	0	



TEST NUMBER: P243345

CATALOG NUMBER: S123DRP-H1165D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4
2.5°	1424.1	1427.2	1422.3	1425.4	1418.1	1413.9	1407.2	1404.2	1389.6	1379.3	1375.7
5°	1569.5	1569.5	1570.7	1563.4	1554.9	1539.8	1519.8	1507.1	1492.6	1467.7	1455.0
7.5°	1752.3	1743.3	1737.2	1723.9	1712.4	1687.5	1665.7	1639.7	1605.8	1564.6	1542.8
10°	1937.6	1947.3	1941.3	1927.3	1897.7	1857.1	1825.0	1787.5	1734.8	1694.8	1637.9
12.5°	2168.9	2156.2	2146.5	2125.3	2092.6	2049.6	2000.0	1944.3	1876.5	1810.5	1746.9
15°	2342.1	2343.9	2343.3	2315.5	2283.4	2225.2	2179.2	2086.6	2000.6	1944.9	1839.5
17.5°	2488.6	2496.5	2487.4	2445.6	2417.2	2382.7	2323.9	2221.0	2142.9	2052.7	1936.4
20°	2607.3	2608.5	2594.0	2563.1	2530.4	2491.7	2414.2	2335.4	2259.1	2138.0	2027.2
22.5°	2638.8	2641.8	2638.8	2625.5	2598.8	2557.7	2499.5	2426.9	2330.6	2201.6	2098.7
25°	2595.2	2593.4	2603.7	2595.8	2594.6	2581.3	2543.1	2484.4	2389.3	2265.2	2134.4
27.5°	2442.6	2429.9	2455.9	2489.8	2494.7	2515.9	2516.5	2489.2	2420.8	2314.8	2172.6
30°	2178.6	2190.7	2203.4	2274.3	2313.6	2368.7	2416.6	2434.1	2408.1	2330.0	2196.8
32.5°	1891.6	1930.4	1966.1	2015.1	2072.6	2165.9	2241.6	2308.2	2336.6	2302.1	2196.8
35°	1581.6	1602.2	1658.5	1720.8	1803.8	1876.5	2026.6	2123.5	2210.1	2232.5	2168.9
37.5°	1339.4	1358.1	1377.5	1426.0	1519.2	1640.3	1764.4	1891.6	2020.0	2112.0	2108.4
40°	1125.0	1129.3	1146.2	1188.0	1265.5	1373.3	1503.5	1656.7	1823.2	1948.5	2001.2
42.5°	960.3	960.3	981.5	1030.0	1074.8	1153.5	1279.4	1414.5	1596.7	1757.8	1870.4
45°	835.6	836.8	853.8	888.3	923.4	985.2	1078.4	1205.6	1393.3	1559.8	1716.6
47.5°	733.9	745.4	755.1	773.2	808.4	862.8	930.7	1039.0	1172.9	1354.5	1537.4
50°	668.5	670.9	678.2	689.1	716.3	752.0	810.8	893.1	1011.8	1172.9	1357.5
52.5°	604.3	604.3	611.6	624.9	640.6	669.7	712.1	780.5	869.5	1015.4	1181.3
55°	549.8	551.6	552.8	563.7	577.0	598.8	632.1	677.0	758.7	875.6	1020.3
57.5°	496.5	503.2	501.4	509.8	519.5	535.3	558.9	597.6	660.0	749.0	879.2
60°	451.7	450.5	453.5	457.2	463.8	474.7	496.5	525.0	577.0	651.5	758.1
62.5°	400.8	399.6	403.3	407.5	413.6	422.6	438.4	460.2	501.4	557.1	649.7
65°	354.8	353.6	355.4	357.9	364.5	371.8	383.9	402.1	429.3	478.3	549.2
67.5°	308.8	308.8	310.0	312.4	316.7	322.1	331.8	342.7	370.0	402.7	458.4
70°	262.8	263.4	263.4	265.8	269.5	273.7	281.6	291.2	308.2	337.3	382.1
72.5°	222.8	222.8	221.6	222.8	225.2	227.1	231.9	241.0	253.7	274.9	308.8
75°	176.8	179.8	179.2	178.6	180.4	183.5	187.7	195.0	202.8	218.0	243.4
77.5°	135.6	137.4	137.4	138.1	139.9	142.3	143.5	150.8	158.0	167.1	185.9
80°	99.3	100.5	99.3	99.9	101.1	103.5	106.0	107.2	112.6	120.5	129.6
82.5°	66.6	64.8	67.2	66.6	67.8	68.4	69.6	70.2	73.9	78.7	84.8
85°	35.1	38.1	37.5	38.8	37.5	38.1	38.8	41.2	41.8	44.8	48.4
87.5°	13.3	14.5	14.5	14.5	14.5	14.5	15.7	16.3	17.6	18.2	19.4
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: P243345

CATALOG NUMBER: S123DRP-H1165D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4
2.5°	1378.1	1372.7	1364.8	1356.3	1347.3	1338.2	1333.9	1328.5	1317.6	1306.7	1298.2
5°	1444.7	1429.6	1409.0	1393.9	1372.1	1351.5	1335.1	1323.6	1306.1	1284.9	1271.0
7.5°	1519.2	1492.0	1459.3	1426.0	1393.3	1362.4	1337.0	1315.2	1287.9	1261.9	1240.7
10°	1607.0	1554.3	1508.9	1460.5	1412.0	1368.4	1332.1	1300.6	1265.5	1234.0	1208.0
12.5°	1684.5	1623.4	1560.4	1492.0	1426.6	1370.3	1323.6	1282.5	1240.1	1203.7	1177.1
15°	1769.9	1683.9	1596.7	1519.2	1439.9	1370.9	1309.7	1261.9	1213.4	1172.3	1141.4
17.5°	1868.0	1752.9	1643.3	1531.9	1461.7	1372.7	1297.6	1234.6	1185.0	1143.8	1103.8
20°	1926.1	1811.7	1677.3	1562.8	1446.6	1355.1	1271.6	1208.0	1149.9	1102.6	1069.9
22.5°	1957.6	1837.1	1696.6	1579.2	1443.5	1341.2	1252.2	1177.1	1114.7	1067.5	1030.6
25°	2001.8	1837.1	1706.9	1565.8	1448.4	1324.8	1224.3	1152.3	1086.9	1032.4	993.6
27.5°	2021.8	1853.5	1708.1	1540.4	1419.3	1294.0	1192.2	1115.9	1043.3	990.0	956.7
30°	2038.1	1856.5	1683.9	1520.4	1385.4	1259.5	1160.1	1074.8	1007.0	956.1	921.0
32.5°	2039.3	1848.6	1651.2	1482.9	1340.0	1218.9	1122.0	1041.5	970.6	916.7	882.2
35°	2028.4	1829.2	1613.7	1425.4	1287.3	1177.1	1080.2	1001.5	929.5	878.0	842.9
37.5°	2000.6	1807.4	1578.6	1371.5	1224.9	1117.8	1035.4	960.3	888.9	837.4	808.4
40°	1941.3	1772.3	1532.5	1313.9	1162.0	1054.8	982.7	913.7	850.1	796.8	767.8
42.5°	1862.5	1719.6	1476.8	1252.8	1091.7	988.2	924.6	868.9	804.1	758.1	728.4
45°	1751.1	1648.2	1421.1	1188.6	1022.1	920.4	862.2	816.2	760.5	714.5	688.5
47.5°	1625.2	1562.2	1349.1	1116.6	948.8	853.2	798.1	761.1	713.9	674.5	648.5
50°	1483.5	1459.9	1269.7	1043.9	880.4	782.3	731.5	702.4	662.4	630.9	608.5
52.5°	1329.7	1344.2	1186.2	970.0	814.4	715.1	666.7	640.0	614.6	587.9	566.8
55°	1173.5	1208.0	1085.1	889.5	738.7	652.1	604.9	580.7	561.9	539.5	524.4
57.5°	1026.9	1080.8	980.3	803.5	669.1	586.1	541.3	520.1	506.2	494.1	480.2
60°	884.6	947.0	872.5	723.0	599.5	523.8	483.8	463.2	456.6	447.5	434.1
62.5°	758.7	822.3	766.6	640.0	529.2	464.4	428.1	411.1	401.5	398.4	390.6
65°	640.6	700.0	657.6	553.4	462.6	405.1	373.0	357.9	352.4	351.8	345.7
67.5°	538.3	595.8	557.1	469.3	392.4	345.7	321.5	309.4	304.0	304.6	300.3
70°	443.8	484.4	461.4	392.4	333.0	291.9	273.1	259.8	255.5	255.5	254.3
72.5°	356.0	388.1	370.6	317.9	271.3	239.8	223.4	215.6	211.9	211.3	211.9
75°	278.5	306.4	290.6	249.5	214.3	190.7	176.8	171.4	169.5	168.3	168.9
77.5°	208.3	225.9	216.2	189.5	160.5	144.1	137.4	132.0	130.2	130.8	132.0
80°	147.1	156.8	151.4	134.4	115.0	104.1	99.3	95.1	93.2	95.1	95.1
82.5°	93.2	100.5	95.7	84.8	75.1	67.8	63.0	61.8	61.2	59.9	61.8
85°	50.9	54.5	52.1	48.4	41.8	38.8	35.1	34.5	34.5	34.5	34.5
87.5°	20.0	22.4	19.4	19.4	18.2	15.1	15.1	14.5	13.9	14.5	14.5
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: P243345

CATALOG NUMBER: S123DRP-H1165D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4
2.5°	1294.6	1286.7	1281.9	1275.2	1267.3	1257.0	1252.8	1257.0	1254.6	1250.4	1252.2
5°	1258.8	1248.6	1235.2	1224.3	1212.2	1197.1	1192.2	1189.8	1186.2	1184.4	1181.3
7.5°	1223.7	1208.6	1192.2	1177.1	1159.5	1146.2	1140.2	1135.9	1134.7	1125.6	1122.0
10°	1187.4	1168.6	1152.3	1131.7	1116.6	1099.0	1091.7	1086.9	1081.4	1075.4	1071.1
12.5°	1149.2	1130.5	1109.9	1090.5	1075.4	1056.0	1046.3	1040.9	1036.6	1032.4	1027.5
15°	1115.9	1097.2	1068.7	1054.2	1036.0	1016.6	1010.6	998.5	999.7	992.4	987.6
17.5°	1080.8	1053.0	1033.0	1011.2	997.9	983.9	972.4	959.7	957.9	952.5	950.6
20°	1041.5	1012.4	998.5	976.1	957.9	944.0	933.7	932.5	928.8	921.0	917.9
22.5°	1002.7	979.1	959.7	939.1	922.8	904.6	899.8	901.6	894.9	893.1	886.5
25°	967.6	947.0	922.8	903.4	890.1	878.6	871.9	869.5	867.1	865.3	862.2
27.5°	930.1	908.3	887.7	871.9	859.2	851.3	847.1	841.7	841.0	841.0	839.8
30°	892.5	873.1	859.2	839.2	827.7	822.9	819.2	817.4	819.2	819.2	819.9
32.5°	858.0	839.2	822.9	809.0	797.5	793.8	793.2	793.2	795.6	795.6	797.5
35°	822.3	803.5	788.4	778.7	769.0	768.4	769.0	770.2	773.2	773.8	776.3
37.5°	783.5	769.0	757.5	745.4	743.0	744.2	745.4	746.6	747.8	752.6	752.6
40°	747.8	736.9	725.4	717.5	713.3	716.3	718.1	718.7	722.4	725.4	727.8
42.5°	712.7	702.4	693.3	686.6	684.8	687.2	689.1	690.9	694.5	696.9	701.2
45°	673.3	666.7	658.8	653.3	653.9	657.6	657.6	663.6	666.1	667.3	670.3
47.5°	637.0	629.7	624.3	621.9	621.2	624.3	626.1	630.9	632.1	636.4	638.8
50°	598.2	592.8	588.6	585.5	586.1	587.3	591.6	596.4	597.6	602.5	606.7
52.5°	557.7	552.8	549.2	550.4	552.2	552.2	556.5	559.5	562.5	566.1	570.4
55°	517.7	511.0	511.7	509.8	511.7	515.9	517.7	522.6	525.0	526.8	532.8
57.5°	474.1	472.9	471.1	469.3	472.9	474.7	477.7	480.8	485.0	487.4	491.7
60°	429.3	427.5	427.5	429.9	431.1	434.8	439.6	441.4	442.6	447.5	452.9
62.5°	388.1	386.3	385.7	389.3	389.3	393.0	394.8	397.8	402.7	404.5	411.7
65°	343.9	342.7	342.7	345.7	346.3	353.0	353.0	353.0	356.0	362.7	366.3
67.5°	297.9	298.5	300.3	302.1	304.6	306.4	307.0	310.6	315.5	319.7	327.0
70°	251.9	254.9	258.6	257.9	259.8	262.8	263.4	267.0	271.3	276.7	285.2
72.5°	210.7	212.5	216.2	216.2	218.6	220.4	223.4	225.9	231.3	236.1	239.8
75°	169.5	170.1	173.2	175.0	176.8	178.0	181.0	185.3	188.3	192.6	198.0
77.5°	133.2	132.0	134.4	135.0	136.2	138.7	141.1	145.3	147.7	152.6	154.4
80°	94.5	96.9	97.5	98.1	99.3	102.3	104.1	106.0	108.4	112.6	114.4
82.5°	62.4	63.6	65.4	66.0	67.2	67.8	68.4	71.4	73.3	74.5	80.5
85°	36.3	38.1	36.9	36.9	38.1	38.8	41.2	41.2	43.6	42.4	45.4
87.5°	15.7	15.1	15.1	15.7	15.1	14.5	16.3	16.3	15.7	16.3	16.3
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: P243345

CATALOG NUMBER: S123DRP-H1165D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1322.4	1322.4	1322.4	1322.4
2.5°	1249.2	1249.2	1244.3	1246.1
5°	1175.3	1177.7	1171.7	1169.8
7.5°	1120.8	1118.4	1114.1	1114.1
10°	1067.5	1065.1	1063.3	1063.3
12.5°	1021.5	1019.1	1015.4	1018.5
15°	980.3	980.9	978.5	978.5
17.5°	948.8	943.4	941.6	941.0
20°	911.3	912.5	910.1	905.8
22.5°	887.7	884.6	882.2	881.6
25°	863.5	860.4	859.8	857.4
27.5°	839.2	839.8	838.0	838.0
30°	819.2	821.1	819.2	819.9
32.5°	799.3	799.3	799.3	796.8
35°	777.5	778.1	777.5	776.3
37.5°	755.1	755.1	755.7	756.9
40°	730.2	730.2	731.5	731.5
42.5°	700.6	703.6	705.4	702.4
45°	673.9	674.5	675.1	674.5
47.5°	644.3	642.4	643.0	644.3
50°	607.3	611.6	611.6	607.9
52.5°	571.6	572.8	575.2	575.2
55°	536.5	537.1	537.7	538.9
57.5°	496.5	497.1	497.1	496.5
60°	456.6	460.2	459.6	460.2
62.5°	413.6	419.0	420.8	420.2
65°	373.0	374.2	377.2	381.5
67.5°	330.0	333.0	337.9	336.7
70°	287.6	291.9	293.1	295.5
72.5°	245.2	250.7	251.9	253.1
75°	204.1	206.5	208.9	208.3
77.5°	159.2	162.9	167.1	164.7
80°	119.3	119.9	123.5	122.3
82.5°	78.7	83.6	83.6	81.1
85°	46.0	46.0	46.0	46.0
87.5°	15.7	15.1	16.3	15.7
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P243345
 CATALOG NUMBER: S123DRP-H1165D935-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	20.40	21.91	22.23	20.57	22.13	20.93	22.44	22.76
	3H	21.56	22.96	21.93	23.29	23.65	21.91	23.31	22.28	23.64	24.00
	4H	22.10	23.42	22.50	23.77	24.15	22.36	23.68	22.76	24.03	24.41
	6H	22.46	23.68	22.88	24.05	24.44	22.66	23.88	23.08	24.25	24.64
	8H	22.56	23.72	22.99	24.11	24.51	22.74	23.90	23.16	24.29	24.69
	12H	22.61	23.73	23.04	24.11	24.54	22.78	23.89	23.21	24.27	24.70
4H	2H	21.20	22.52	21.60	22.87	23.24	21.36	22.68	21.76	23.03	23.40
	3H	22.76	23.86	23.17	24.25	24.66	23.15	24.25	23.56	24.65	25.05
	4H	23.35	24.34	23.79	24.76	25.20	23.71	24.70	24.15	25.12	25.55
	6H	23.78	24.64	24.24	25.08	25.54	24.08	24.94	24.54	25.38	25.84
	8H	23.90	24.71	24.36	25.15	25.62	24.17	24.98	24.63	25.42	25.89
	12H	23.98	24.70	24.46	25.17	25.64	24.23	24.95	24.71	25.42	25.89
8H	4H	23.82	24.62	24.28	25.07	25.53	24.02	24.82	24.48	25.27	25.73
	6H	24.32	24.98	24.81	25.47	25.95	24.53	25.19	25.02	25.68	26.16
	8H	24.48	25.08	24.99	25.59	26.07	24.67	25.27	25.19	25.78	26.27
	12H	24.60	25.12	25.11	25.62	26.18	24.77	25.30	25.28	25.79	26.36
12H	4H	23.87	24.59	24.35	25.06	25.53	24.03	24.75	24.51	25.23	25.70
	6H	24.39	24.98	24.90	25.49	25.98	24.56	25.16	25.07	25.67	26.15
	8H	24.59	25.12	25.10	25.61	26.18	24.76	25.29	25.27	25.78	26.35