

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: P243343

Luminaire Tested: S123DRP-H775D935-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243343
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-H775D935-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

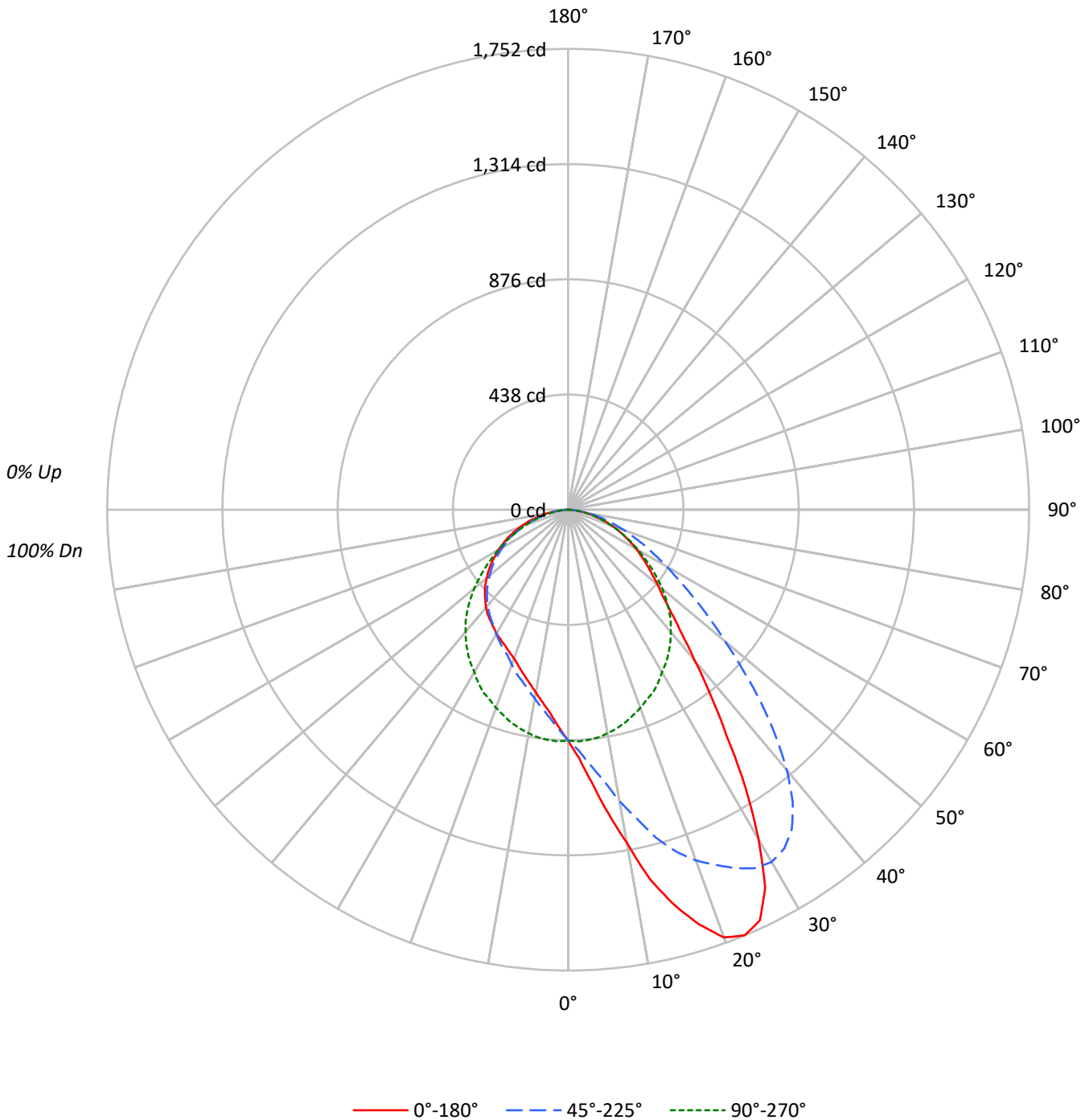
Lumens per Lamp: N/A
Luminaire Lumens: 2645.5 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.21 / 1.5
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')
CIE Type: Direct

Input Watts (W): 23.6
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: P243343

CATALOG NUMBER: S123DRP-H775D935-X4F0-XX-UDD-A-W

Luminous Intensity Polar Plot



TEST NUMBER: P243343

CATALOG NUMBER: S123DRP-H775D935-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	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°	10640	10640	10640	10640	10640
5°	12676	11855	10690	9668	9448
10°	15830	13847	10626	8979	8687
15°	19508	16201	10511	8468	8150
20°	22325	18306	10343	8083	7756
25°	23039	20110	10230	7800	7611
30°	20240	21647	9985	7645	7617
35°	15534	21928	9837	7547	7625
40°	11817	20466	9597	7524	7682
45°	9509	17747	9288	7482	7674
50°	8367	14680	8791	7352	7609
55°	7711	12282	8145	7236	7559
60°	7268	10485	7455	6996	7406
65°	6754	9106	6812	6720	7262
70°	6181	7935	6110	6181	6950
75°	5498	6777	5325	5536	6477
80°	4600	5584	4405	4740	5668
85°	3240	4131	3185	3574	4242

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 19926 cd/sqm



TEST NUMBER: P243343

CATALOG NUMBER: S123DRP-H775D935-X4F0-XX-UDD-A-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.4	3.3
10°-20°	277.3	10.5
20°-30°	457.9	17.3
30°-40°	524.1	19.8
40°-50°	475.0	18.0
50°-60°	383.8	14.5
60°-70°	267.4	10.1
70°-80°	140.2	5.3
80°-90°	33.4	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°	821.6	31.1
0°-40°	1345.7	50.9
0°-60°	2204.4	83.3
0°-90°	2645.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2645.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	878	878	878	878	878	
5°	1042	974	879	795	776	107
15°	1555	1291	838	675	650	442
25°	1723	1504	765	583	569	770
35°	1050	1482	665	510	515	665
45°	555	1035	542	436	448	437
55°	365	581	385	342	358	328
65°	236	318	238	234	253	233
75°	117	145	114	118	138	125
85°	23	30	23	26	30	30
90°	0	0	0	0	0	



TEST NUMBER: P243343

CATALOG NUMBER: S123DRP-H775D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	877.8	877.8	877.8	877.8	877.8	877.8	877.8	877.8	877.8	877.8	877.8
2.5°	945.3	947.3	944.1	946.1	941.3	938.5	934.1	932.1	922.4	915.6	913.2
5°	1041.8	1041.8	1042.6	1037.8	1032.1	1022.1	1008.8	1000.4	990.7	974.3	965.8
7.5°	1163.2	1157.1	1153.1	1144.3	1136.6	1120.2	1105.7	1088.4	1065.9	1038.6	1024.1
10°	1286.1	1292.6	1288.6	1279.3	1259.6	1232.7	1211.4	1186.5	1151.5	1125.0	1087.2
12.5°	1439.7	1431.2	1424.8	1410.7	1389.0	1360.5	1327.5	1290.6	1245.6	1201.7	1159.5
15°	1554.6	1555.8	1555.4	1536.9	1515.6	1477.1	1446.5	1385.0	1327.9	1291.0	1221.0
17.5°	1651.9	1657.1	1651.1	1623.4	1604.5	1581.6	1542.6	1474.2	1422.4	1362.5	1285.3
20°	1730.7	1731.5	1721.8	1701.3	1679.6	1653.9	1602.5	1550.2	1499.6	1419.2	1345.6
22.5°	1751.6	1753.6	1751.6	1742.7	1725.0	1697.7	1659.1	1610.9	1547.0	1461.4	1393.1
25°	1722.6	1721.4	1728.3	1723.0	1722.2	1713.4	1688.1	1649.1	1586.0	1503.6	1416.8
27.5°	1621.3	1612.9	1630.2	1652.7	1655.9	1670.0	1670.4	1652.3	1606.9	1536.5	1442.1
30°	1446.1	1454.1	1462.6	1509.6	1535.7	1572.3	1604.1	1615.7	1598.4	1546.6	1458.2
32.5°	1255.6	1281.3	1305.0	1337.6	1375.8	1437.7	1487.9	1532.1	1551.0	1528.1	1458.2
35°	1049.8	1063.5	1100.9	1142.3	1197.3	1245.6	1345.2	1409.5	1467.0	1481.9	1439.7
37.5°	889.0	901.5	914.4	946.5	1008.4	1088.8	1171.2	1255.6	1340.8	1401.9	1399.5
40°	746.8	749.6	760.8	788.6	840.0	911.6	998.0	1099.7	1210.2	1293.4	1328.3
42.5°	637.4	637.4	651.5	683.7	713.4	765.7	849.3	938.9	1059.9	1166.8	1241.5
45°	554.7	555.5	566.7	589.6	612.9	653.9	715.8	800.2	924.8	1035.3	1139.4
47.5°	487.1	494.8	501.2	513.3	536.6	572.7	617.8	689.7	778.5	899.1	1020.5
50°	443.7	445.3	450.2	457.4	475.5	499.2	538.2	592.8	671.6	778.5	901.1
52.5°	401.1	401.1	405.9	414.8	425.2	444.5	472.7	518.1	577.2	674.0	784.1
55°	364.9	366.1	367.0	374.2	383.0	397.5	419.6	449.3	503.6	581.2	677.2
57.5°	329.6	334.0	332.8	338.4	344.8	355.3	371.0	396.7	438.1	497.2	583.6
60°	299.8	299.0	301.0	303.5	307.9	315.1	329.6	348.5	383.0	432.5	503.2
62.5°	266.1	265.3	267.7	270.5	274.5	280.5	291.0	305.5	332.8	369.8	431.3
65°	235.5	234.7	235.9	237.5	242.0	246.8	254.8	266.9	285.0	317.5	364.5
67.5°	205.0	205.0	205.8	207.4	210.2	213.8	220.3	227.5	245.6	267.3	304.3
70°	174.4	174.8	174.8	176.4	178.9	181.7	186.9	193.3	204.6	223.9	253.6
72.5°	147.9	147.9	147.1	147.9	149.5	150.7	153.9	160.0	168.4	182.5	205.0
75°	117.4	119.4	119.0	118.6	119.8	121.8	124.6	129.4	134.6	144.7	161.6
77.5°	90.0	91.2	91.2	91.6	92.8	94.5	95.3	100.1	104.9	110.9	123.4
80°	65.9	66.7	65.9	66.3	67.1	68.7	70.3	71.1	74.8	80.0	86.0
82.5°	44.2	43.0	44.6	44.2	45.0	45.4	46.2	46.6	49.0	52.2	56.3
85°	23.3	25.3	24.9	25.7	24.9	25.3	25.7	27.3	27.7	29.7	32.2
87.5°	8.8	9.6	9.6	9.6	9.6	9.6	10.4	10.9	11.7	12.1	12.9
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: P243343

CATALOG NUMBER: S123DRP-H775D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	877.8	877.8	877.8	877.8	877.8	877.8	877.8	877.8	877.8	877.8	877.8
2.5°	914.8	911.2	905.9	900.3	894.3	888.2	885.4	881.8	874.6	867.3	861.7
5°	959.0	948.9	935.3	925.2	910.8	897.1	886.2	878.6	866.9	852.9	843.6
7.5°	1008.4	990.3	968.6	946.5	924.8	904.3	887.4	873.0	854.9	837.6	823.5
10°	1066.7	1031.7	1001.6	969.4	937.3	908.3	884.2	863.3	840.0	819.1	801.8
12.5°	1118.1	1077.5	1035.7	990.3	946.9	909.5	878.6	851.3	823.1	799.0	781.3
15°	1174.8	1117.7	1059.9	1008.4	955.8	909.9	869.4	837.6	805.4	778.1	757.6
17.5°	1239.9	1163.6	1090.8	1016.9	970.2	911.2	861.3	819.5	786.6	759.2	732.7
20°	1278.5	1202.5	1113.3	1037.4	960.2	899.5	844.0	801.8	763.2	731.9	710.2
22.5°	1299.4	1219.4	1126.2	1048.2	958.2	890.3	831.2	781.3	739.9	708.6	684.1
25°	1328.8	1219.4	1133.0	1039.4	961.4	879.4	812.7	764.9	721.4	685.3	659.6
27.5°	1342.0	1230.3	1133.8	1022.5	942.1	858.9	791.4	740.7	692.5	657.1	635.0
30°	1352.9	1232.3	1117.7	1009.2	919.6	836.0	770.1	713.4	668.4	634.6	611.3
32.5°	1353.7	1227.1	1096.0	984.3	889.5	809.1	744.8	691.3	644.3	608.5	585.6
35°	1346.4	1214.2	1071.1	946.1	854.5	781.3	717.0	664.8	616.9	582.8	559.5
37.5°	1327.9	1199.7	1047.8	910.4	813.1	741.9	687.3	637.4	590.0	555.9	536.6
40°	1288.6	1176.4	1017.3	872.2	771.3	700.1	652.3	606.5	564.3	528.9	509.6
42.5°	1236.3	1141.5	980.3	831.6	724.7	655.9	613.7	576.8	533.8	503.2	483.5
45°	1162.4	1094.0	943.3	789.0	678.4	610.9	572.3	541.8	504.8	474.3	457.0
47.5°	1078.8	1037.0	895.5	741.1	629.8	566.3	529.7	505.2	473.9	447.7	430.5
50°	984.7	969.0	842.8	692.9	584.4	519.3	485.5	466.2	439.7	418.8	403.9
52.5°	882.6	892.3	787.4	643.9	540.6	474.7	442.5	424.8	407.9	390.3	376.2
55°	778.9	801.8	720.2	590.4	490.3	432.9	401.5	385.4	373.0	358.1	348.1
57.5°	681.7	717.4	650.7	533.3	444.1	389.1	359.3	345.2	336.0	328.0	318.7
60°	587.2	628.6	579.2	479.9	397.9	347.7	321.1	307.5	303.0	297.0	288.2
62.5°	503.6	545.8	508.8	424.8	351.3	308.3	284.2	272.9	266.5	264.5	259.2
65°	425.2	464.6	436.5	367.4	307.1	268.9	247.6	237.5	233.9	233.5	229.5
67.5°	357.3	395.5	369.8	311.5	260.4	229.5	213.4	205.4	201.8	202.2	199.4
70°	294.6	321.5	306.3	260.4	221.1	193.7	181.3	172.4	169.6	169.6	168.8
72.5°	236.3	257.6	246.0	211.0	180.1	159.2	148.3	143.1	140.7	140.3	140.7
75°	184.9	203.4	192.9	165.6	142.3	126.6	117.4	113.7	112.5	111.7	112.1
77.5°	138.3	149.9	143.5	125.8	106.5	95.7	91.2	87.6	86.4	86.8	87.6
80°	97.7	104.1	100.5	89.2	76.4	69.1	65.9	63.1	61.9	63.1	63.1
82.5°	61.9	66.7	63.5	56.3	49.8	45.0	41.8	41.0	40.6	39.8	41.0
85°	33.8	36.2	34.6	32.2	27.7	25.7	23.3	22.9	22.9	22.9	22.9
87.5°	13.3	14.9	12.9	12.9	12.1	10.0	10.0	9.6	9.2	9.6	9.6
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: P243343

CATALOG NUMBER: S123DRP-H775D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	877.8	877.8	877.8	877.8	877.8	877.8	877.8	877.8	877.8	877.8	877.8
2.5°	859.3	854.1	850.9	846.4	841.2	834.4	831.6	834.4	832.8	830.0	831.2
5°	835.6	828.8	819.9	812.7	804.6	794.6	791.4	789.8	787.4	786.2	784.1
7.5°	812.3	802.2	791.4	781.3	769.7	760.8	756.8	754.0	753.2	747.2	744.8
10°	788.2	775.7	764.9	751.2	741.1	729.5	724.7	721.4	717.8	713.8	711.0
12.5°	762.8	750.4	736.7	723.9	713.8	700.9	694.5	690.9	688.1	685.3	682.1
15°	740.7	728.3	709.4	699.7	687.7	674.8	670.8	662.8	663.6	658.7	655.5
17.5°	717.4	698.9	685.7	671.2	662.4	653.1	645.5	637.0	635.8	632.2	631.0
20°	691.3	672.0	662.8	647.9	635.8	626.6	619.8	619.0	616.5	611.3	609.3
22.5°	665.6	649.9	637.0	623.4	612.5	600.5	597.3	598.5	594.0	592.8	588.4
25°	642.3	628.6	612.5	599.7	590.8	583.2	578.8	577.2	575.6	574.3	572.3
27.5°	617.4	602.9	589.2	578.8	570.3	565.1	562.3	558.7	558.3	558.3	557.5
30°	592.4	579.6	570.3	557.1	549.4	546.2	543.8	542.6	543.8	543.8	544.2
32.5°	569.5	557.1	546.2	537.0	529.3	526.9	526.5	526.5	528.1	528.1	529.3
35°	545.8	533.3	523.3	516.9	510.4	510.0	510.4	511.2	513.3	513.7	515.3
37.5°	520.1	510.4	502.8	494.8	493.2	494.0	494.8	495.6	496.4	499.6	499.6
40°	496.4	489.1	481.5	476.3	473.5	475.5	476.7	477.1	479.5	481.5	483.1
42.5°	473.1	466.2	460.2	455.8	454.6	456.2	457.4	458.6	461.0	462.6	465.4
45°	446.9	442.5	437.3	433.7	434.1	436.5	436.5	440.5	442.1	442.9	444.9
47.5°	422.8	418.0	414.4	412.8	412.4	414.4	415.6	418.8	419.6	422.4	424.0
50°	397.1	393.5	390.7	388.7	389.1	389.9	392.7	395.9	396.7	399.9	402.7
52.5°	370.2	367.0	364.5	365.3	366.6	366.6	369.4	371.4	373.4	375.8	378.6
55°	343.6	339.2	339.6	338.4	339.6	342.4	343.6	346.9	348.5	349.7	353.7
57.5°	314.7	313.9	312.7	311.5	313.9	315.1	317.1	319.1	321.9	323.5	326.4
60°	285.0	283.8	283.8	285.4	286.2	288.6	291.8	293.0	293.8	297.0	300.6
62.5°	257.6	256.4	256.0	258.4	258.4	260.8	262.1	264.1	267.3	268.5	273.3
65°	228.3	227.5	227.5	229.5	229.9	234.3	234.3	234.3	236.3	240.8	243.2
67.5°	197.7	198.1	199.4	200.6	202.2	203.4	203.8	206.2	209.4	212.2	217.0
70°	167.2	169.2	171.6	171.2	172.4	174.4	174.8	177.2	180.1	183.7	189.3
72.5°	139.9	141.1	143.5	143.5	145.1	146.3	148.3	149.9	153.5	156.7	159.2
75°	112.5	112.9	114.9	116.2	117.4	118.2	120.2	123.0	125.0	127.8	131.4
77.5°	88.4	87.6	89.2	89.6	90.4	92.0	93.6	96.5	98.1	101.3	102.5
80°	62.7	64.3	64.7	65.1	65.9	67.9	69.1	70.3	71.9	74.8	76.0
82.5°	41.4	42.2	43.4	43.8	44.6	45.0	45.4	47.4	48.6	49.4	53.5
85°	24.1	25.3	24.5	24.5	25.3	25.7	27.3	27.3	28.9	28.1	30.1
87.5°	10.4	10.0	10.0	10.4	10.0	9.6	10.9	10.9	10.4	10.9	10.9
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: P243343

CATALOG NUMBER: S123DRP-H775D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	877.8	877.8	877.8	877.8
2.5°	829.2	829.2	825.9	827.2
5°	780.1	781.7	777.7	776.5
7.5°	744.0	742.3	739.5	739.5
10°	708.6	707.0	705.8	705.8
12.5°	678.0	676.4	674.0	676.0
15°	650.7	651.1	649.5	649.5
17.5°	629.8	626.2	625.0	624.6
20°	604.9	605.7	604.1	601.3
22.5°	589.2	587.2	585.6	585.2
25°	573.1	571.1	570.7	569.1
27.5°	557.1	557.5	556.3	556.3
30°	543.8	545.0	543.8	544.2
32.5°	530.5	530.5	530.5	528.9
35°	516.1	516.5	516.1	515.3
37.5°	501.2	501.2	501.6	502.4
40°	484.7	484.7	485.5	485.5
42.5°	465.0	467.0	468.2	466.2
45°	447.3	447.7	448.1	447.7
47.5°	427.6	426.4	426.8	427.6
50°	403.1	405.9	405.9	403.5
52.5°	379.4	380.2	381.8	381.8
55°	356.1	356.5	356.9	357.7
57.5°	329.6	330.0	330.0	329.6
60°	303.0	305.5	305.1	305.5
62.5°	274.5	278.1	279.3	278.9
65°	247.6	248.4	250.4	253.2
67.5°	219.0	221.1	224.3	223.5
70°	190.9	193.7	194.5	196.1
72.5°	162.8	166.4	167.2	168.0
75°	135.4	137.1	138.7	138.3
77.5°	105.7	108.1	110.9	109.3
80°	79.2	79.6	82.0	81.2
82.5°	52.2	55.5	55.5	53.9
85°	30.5	30.5	30.5	30.5
87.5°	10.4	10.0	10.9	10.4
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243343
 CATALOG NUMBER: S123DRP-H775D935-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	18.61	20.17	18.98	20.49	20.80	19.14	20.70	19.51	21.02	21.33
	3H	20.13	21.54	20.51	21.86	22.22	20.48	21.89	20.86	22.21	22.58
	4H	20.68	22.00	21.08	22.35	22.72	20.94	22.26	21.34	22.61	22.98
	6H	21.04	22.26	21.45	22.63	23.02	21.24	22.46	21.65	22.83	23.22
	8H	21.14	22.30	21.56	22.69	23.09	21.32	22.48	21.74	22.87	23.27
	12H	21.19	22.30	21.62	22.68	23.11	21.35	22.46	21.78	22.85	23.28
4H	2H	19.78	21.09	20.18	21.44	21.82	19.94	21.25	20.34	21.60	21.98
	3H	21.33	22.43	21.74	22.83	23.23	21.73	22.82	22.14	23.22	23.62
	4H	21.93	22.92	22.36	23.33	23.77	22.29	23.28	22.72	23.69	24.13
	6H	22.36	23.22	22.81	23.66	24.12	22.66	23.52	23.11	23.96	24.42
	8H	22.48	23.28	22.94	23.72	24.19	22.75	23.55	23.21	24.00	24.46
	12H	22.55	23.27	23.03	23.75	24.22	22.80	23.52	23.28	24.00	24.47
8H	4H	22.39	23.20	22.86	23.64	24.11	22.59	23.40	23.06	23.84	24.31
	6H	22.89	23.56	23.39	24.05	24.53	23.10	23.77	23.60	24.26	24.74
	8H	23.06	23.65	23.57	24.16	24.65	23.25	23.85	23.76	24.36	24.84
	12H	23.17	23.70	23.68	24.19	24.76	23.35	23.88	23.86	24.37	24.93
12H	4H	22.44	23.16	22.92	23.64	24.11	22.61	23.33	23.09	23.80	24.28
	6H	22.96	23.56	23.47	24.07	24.56	23.14	23.73	23.65	24.24	24.73
	8H	23.17	23.70	23.68	24.19	24.75	23.34	23.87	23.85	24.36	24.92