

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: P242473

Luminaire Tested: S123DRP-S775D840-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P242473  
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-S775D840-X4F0-XX-UDD-A-W  
Description: DEFINE 3 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER  
STANDARD LIGHT ENGINE  
Light Source: (92) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

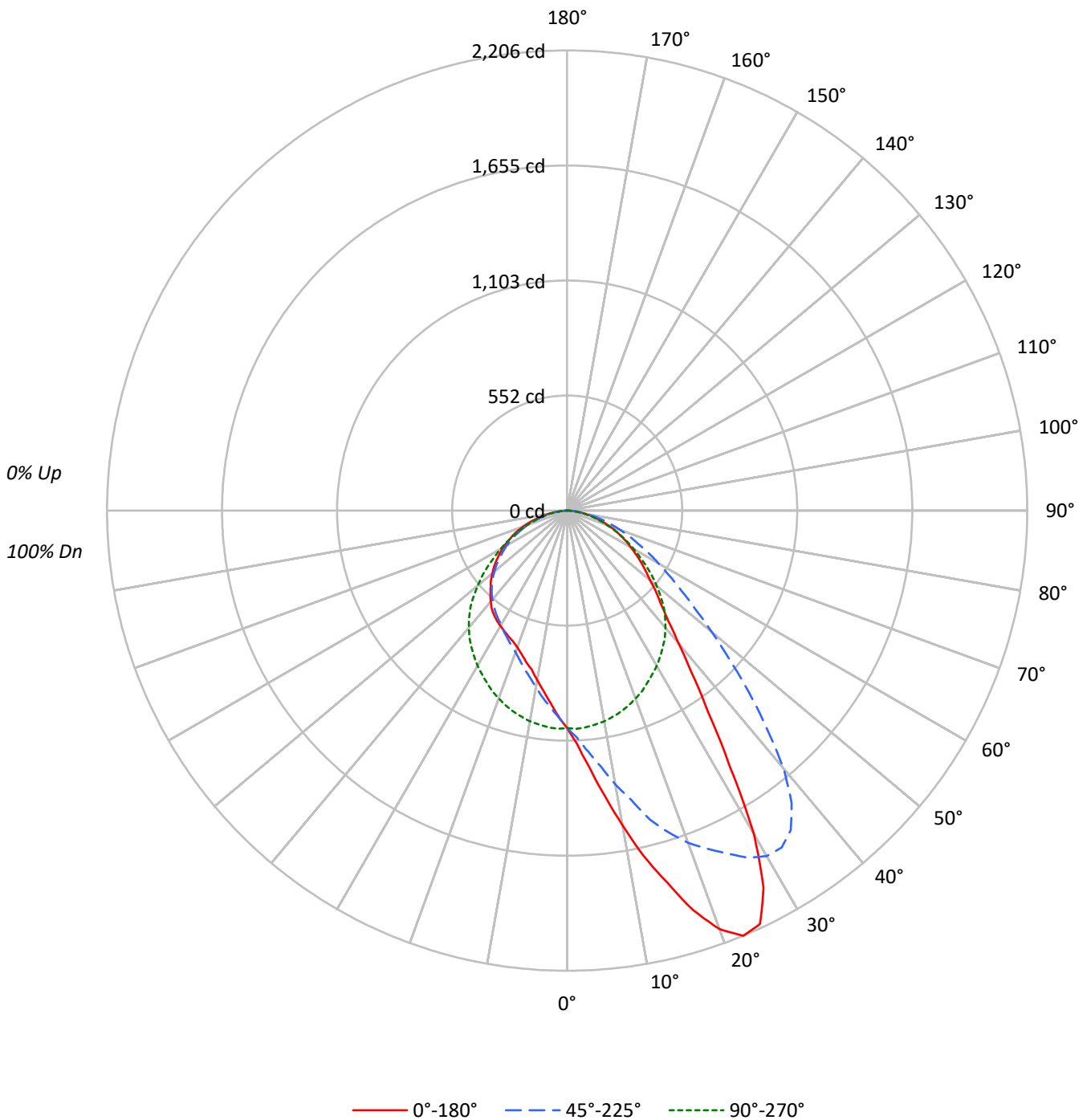
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3145.5 lumens  
Efficiency: N/A  
Efficacy: 119.1 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): 26.4  
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	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°	12632	12632	12632	12632	12632
5°	15063	14118	12686	11489	11243
10°	18855	16413	12622	10584	10154
15°	23126	19249	12520	9872	9453
20°	27550	21858	12361	9313	9001
25°	29254	24242	12169	9042	8901
30°	25073	26769	12028	8870	8946
35°	17439	27659	11827	8838	9040
40°	13135	25534	11592	8820	9011
45°	10906	21119	11243	8760	8897
50°	9768	17043	10530	8588	8816
55°	9134	14138	9763	8343	8707
60°	8567	12228	8960	8104	8618
65°	8051	10758	8168	7689	8341
70°	7552	9608	7265	7067	7946
75°	6763	8322	6360	6313	7283
80°	5919	6841	5214	5110	6275
85°	4631	5340	3797	3727	4214

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 55°  
 Vertical Angle: 45°  
 Luminance: 24962 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.5	3.3
10°-20°	329.2	10.5
20°-30°	553.9	17.6
30°-40°	626.0	19.9
40°-50°	560.7	17.8
50°-60°	452.6	14.4
60°-70°	315.4	10.0
70°-80°	165.5	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°	985.6	31.3
0°-40°	1611.6	51.2
0°-60°	2624.9	83.5
0°-90°	3145.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3145.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1042	1042	1042	1042	1042	
5°	1238	1160	1043	944	924	127
15°	1843	1534	998	787	753	532
25°	2187	1813	910	676	666	967
35°	1178	1869	799	597	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°	1042.1	1042.1	1042.1	1042.1	1042.1	1042.1	1042.1	1042.1	1042.1	1042.1	1042.1
2.5°	1121.9	1120.9	1118.4	1120.4	1116.4	1110.8	1110.3	1105.3	1090.6	1089.6	1085.6
5°	1238.0	1234.0	1233.5	1233.0	1225.9	1216.3	1198.2	1196.6	1172.4	1160.3	1145.6
7.5°	1378.4	1376.9	1372.9	1368.3	1344.6	1333.0	1315.8	1293.6	1265.3	1238.0	1220.9
10°	1531.9	1548.6	1527.9	1513.7	1500.6	1475.9	1447.1	1411.2	1375.4	1333.5	1301.7
12.5°	1696.5	1702.6	1702.6	1689.4	1667.2	1626.3	1569.8	1529.4	1497.1	1420.3	1393.1
15°	1842.9	1873.7	1854.0	1808.6	1809.6	1773.8	1707.1	1633.9	1595.0	1533.9	1450.6
17.5°	2008.5	2014.1	2008.0	1965.6	1944.9	1892.9	1832.8	1764.7	1691.5	1617.2	1530.9
20°	2135.8	2132.7	2115.1	2095.4	2052.0	2013.6	1946.4	1868.2	1767.2	1694.5	1598.0
22.5°	2206.5	2200.9	2194.9	2179.2	2144.9	2103.0	2044.4	1957.0	1862.1	1755.1	1640.0
25°	2187.3	2193.8	2194.9	2190.3	2177.7	2152.9	2105.5	2037.3	1941.4	1812.6	1696.5
27.5°	2038.8	2055.5	2076.7	2090.8	2113.6	2128.7	2113.6	2070.6	1991.9	1876.8	1733.9
30°	1791.4	1771.2	1821.2	1884.3	1927.2	2003.0	2045.4	2047.9	2008.0	1912.6	1774.3
32.5°	1448.1	1480.9	1496.1	1577.3	1683.9	1771.2	1866.2	1950.5	1970.2	1914.6	1798.0
35°	1178.5	1206.2	1246.6	1287.0	1388.0	1474.8	1623.3	1752.5	1855.6	1869.2	1795.0
37.5°	979.5	995.7	1020.4	1063.3	1132.5	1240.1	1357.7	1525.8	1667.7	1767.7	1757.6
40°	830.1	834.1	862.9	893.7	947.2	1032.0	1135.5	1280.0	1458.7	1613.7	1678.3
42.5°	718.0	728.1	736.2	765.4	805.3	863.9	958.3	1071.4	1231.5	1415.8	1557.7
45°	636.2	646.3	653.9	673.6	703.8	746.8	813.9	923.0	1047.7	1232.0	1402.1
47.5°	579.6	578.6	585.2	600.8	622.6	656.9	706.4	779.1	898.7	1052.7	1231.0
50°	518.0	526.1	528.1	539.8	555.9	579.6	619.0	678.6	772.5	903.8	1064.4
52.5°	474.6	475.6	482.2	489.8	503.4	520.6	553.4	596.8	665.5	772.5	916.9
55°	432.2	432.2	437.8	444.3	452.4	469.1	491.8	526.1	582.2	669.0	791.2
57.5°	392.8	394.8	399.9	401.4	408.5	420.1	439.8	467.0	510.0	580.1	681.1
60°	353.4	358.0	357.5	361.5	367.6	376.2	392.3	413.5	450.9	504.4	586.2
62.5°	319.1	317.6	317.6	322.6	328.7	336.8	345.9	363.5	393.8	439.8	506.4
65°	280.7	279.7	283.3	286.3	288.3	294.4	302.4	318.6	339.8	375.1	429.2
67.5°	247.4	244.4	246.9	247.9	251.4	256.5	264.6	274.7	291.8	321.6	365.1
70°	213.1	210.5	210.0	211.1	214.1	217.6	223.2	232.8	248.4	271.1	300.9
72.5°	177.7	176.2	176.2	178.7	179.7	181.8	185.3	193.9	205.5	221.2	248.4
75°	144.4	144.4	144.4	144.9	146.4	148.4	151.5	156.0	165.6	177.7	196.4
77.5°	114.1	114.6	113.6	113.1	115.6	116.6	117.1	122.2	127.7	136.8	151.5
80°	84.8	82.3	83.3	84.8	85.8	86.3	87.9	88.9	93.4	98.0	107.5
82.5°	57.6	55.5	55.5	58.1	58.1	58.6	60.1	61.6	62.6	66.6	70.7
85°	33.3	33.3	33.8	33.8	34.3	33.8	35.3	35.8	35.8	38.4	41.4
87.5°	15.1	14.1	14.6	15.1	14.6	15.1	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°	1042.1	1042.1	1042.1	1042.1	1042.1	1042.1	1042.1	1042.1	1042.1	1042.1	1042.1
2.5°	1082.5	1078.5	1074.5	1067.4	1061.3	1052.7	1050.2	1047.2	1038.1	1030.0	1024.0
5°	1140.1	1128.0	1110.3	1094.1	1081.0	1063.3	1053.2	1042.6	1027.5	1013.9	1002.8
7.5°	1195.1	1173.9	1149.2	1122.4	1096.7	1071.9	1052.2	1034.6	1014.9	995.7	981.0
10°	1263.3	1229.0	1190.6	1149.2	1113.8	1079.5	1050.7	1025.5	998.2	974.5	954.8
12.5°	1341.0	1286.0	1229.5	1176.9	1133.5	1082.5	1046.2	1012.3	980.5	950.7	928.0
15°	1399.1	1334.5	1271.9	1202.7	1139.1	1079.5	1038.1	997.7	961.9	932.6	904.3
17.5°	1456.7	1386.0	1306.2	1222.9	1148.2	1079.5	1023.0	979.5	935.6	900.3	873.0
20°	1504.1	1420.8	1327.4	1240.1	1155.2	1076.5	1012.9	958.3	909.9	872.0	840.2
22.5°	1545.0	1444.0	1346.6	1251.7	1154.7	1068.4	994.2	937.6	884.1	847.2	812.9
25°	1570.8	1454.1	1357.2	1247.6	1142.1	1054.3	973.5	909.9	857.3	813.9	779.1
27.5°	1595.0	1452.6	1343.1	1224.9	1127.0	1039.6	952.8	884.6	829.6	782.6	746.8
30°	1619.3	1455.2	1318.3	1201.7	1102.7	1011.8	928.0	859.4	800.8	752.8	719.5
32.5°	1634.4	1453.6	1295.6	1169.4	1064.4	986.6	901.3	829.6	769.0	722.0	690.2
35°	1638.4	1445.1	1268.8	1122.4	1022.4	944.2	873.0	799.3	736.2	692.2	655.9
37.5°	1629.9	1429.4	1239.6	1080.0	972.0	894.2	832.1	769.0	708.4	659.4	627.6
40°	1602.1	1414.3	1204.2	1034.6	919.4	845.2	794.2	732.6	673.0	627.1	597.8
42.5°	1549.1	1383.5	1165.3	984.1	864.9	790.7	744.7	695.8	640.2	597.8	568.5
45°	1456.2	1336.0	1126.5	933.6	811.4	734.6	693.2	655.9	604.9	563.0	537.7
47.5°	1337.5	1271.9	1070.4	880.6	755.3	681.1	637.7	606.9	567.0	533.2	508.4
50°	1212.8	1189.1	1013.4	826.0	699.3	627.1	585.7	558.4	531.7	497.8	475.6
52.5°	1068.9	1093.1	946.7	769.5	642.2	571.6	533.2	513.0	489.3	463.0	444.3
55°	935.6	988.6	867.9	704.9	585.7	518.0	481.2	462.0	447.9	427.2	410.5
57.5°	806.3	874.0	786.1	639.7	530.2	471.1	434.7	413.0	403.9	392.3	378.7
60°	693.7	760.4	697.3	574.1	474.1	418.6	387.3	369.6	360.5	352.9	341.8
62.5°	593.3	660.9	610.4	507.4	419.1	368.6	342.3	325.2	318.6	315.6	306.5
65°	502.9	561.0	525.6	437.8	367.1	321.6	296.9	284.8	278.2	276.7	270.6
67.5°	424.6	469.6	442.3	376.2	318.6	277.2	255.5	244.9	239.3	238.8	233.8
70°	347.9	389.3	369.6	311.0	263.1	232.3	214.1	205.0	202.0	201.5	198.9
72.5°	288.3	314.1	299.4	253.0	218.6	191.4	179.2	169.7	166.1	167.1	165.6
75°	222.2	243.9	234.8	201.0	171.2	153.0	141.9	135.8	132.8	134.3	132.3
77.5°	169.7	184.8	175.7	150.0	130.8	117.1	108.6	104.5	101.5	101.5	100.5
80°	120.7	128.8	124.2	110.1	94.9	83.8	77.3	74.7	73.2	72.7	72.2
82.5°	77.3	83.8	78.3	69.7	60.6	55.0	52.0	48.5	47.5	48.0	47.5
85°	43.4	45.9	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°	1042.1	1042.1	1042.1	1042.1	1042.1	1042.1	1042.1	1042.1	1042.1	1042.1	1042.1
2.5°	1020.4	1016.9	1011.8	1004.3	998.2	988.6	988.6	990.1	990.1	989.6	988.6
5°	993.7	986.1	977.0	966.4	955.3	944.2	942.2	938.1	935.1	933.1	930.6
7.5°	966.4	953.8	941.2	926.5	913.9	903.3	895.7	889.1	885.1	880.6	877.0
10°	938.6	922.0	906.3	890.7	873.5	859.9	851.3	845.2	840.7	836.6	834.6
12.5°	905.8	886.1	868.4	853.8	834.6	820.5	812.4	810.4	804.8	795.2	790.2
15°	874.0	856.3	835.6	812.9	803.8	786.7	777.1	772.5	769.5	762.9	760.9
17.5°	847.7	824.0	800.3	783.6	767.0	753.3	747.8	741.7	737.7	731.6	730.1
20°	814.9	794.2	773.0	754.8	737.2	722.0	717.5	713.4	709.4	706.9	704.9
22.5°	781.6	760.9	744.2	727.6	708.4	699.8	694.8	690.2	687.7	686.2	684.2
25°	750.8	732.6	712.9	697.8	682.6	676.1	673.0	670.5	668.5	666.0	665.5
27.5°	723.5	703.3	686.7	672.0	660.9	655.4	651.8	650.3	650.3	651.3	651.8
30°	692.2	674.1	660.9	648.8	638.7	633.7	633.2	633.2	635.2	635.7	636.7
32.5°	663.5	649.3	636.2	624.6	617.5	614.5	617.0	617.0	618.5	620.0	622.1
35°	635.7	622.6	612.5	602.4	595.8	597.3	598.3	599.3	601.9	604.9	606.9
37.5°	609.4	597.3	586.7	578.6	574.6	577.6	580.1	582.2	585.2	587.7	589.7
40°	580.6	572.1	562.0	554.9	555.9	557.4	559.4	562.0	564.5	566.0	568.0
42.5°	553.9	544.8	537.7	532.2	533.7	535.7	536.7	537.7	540.8	543.8	544.8
45°	526.6	519.6	512.5	509.0	510.0	511.0	512.0	513.5	516.0	518.0	518.5
47.5°	495.8	490.8	486.2	482.2	484.2	483.7	485.2	488.2	489.3	490.3	493.3
50°	466.5	462.0	456.4	455.4	455.4	455.4	455.9	460.0	460.0	462.0	464.0
52.5°	434.2	431.7	428.7	426.7	425.6	425.6	428.2	429.7	430.7	433.7	435.7
55°	402.4	399.4	396.4	394.8	393.8	394.8	398.9	399.9	402.4	403.9	405.4
57.5°	369.1	367.1	364.5	363.5	363.5	364.0	367.1	369.6	370.1	375.1	377.2
60°	336.3	332.7	330.7	330.7	329.7	334.3	333.2	338.3	339.3	342.3	345.9
62.5°	302.4	297.4	296.9	296.9	298.9	299.4	301.4	302.9	306.0	310.0	312.5
65°	265.6	263.1	266.6	266.1	265.1	268.1	268.1	270.6	273.7	277.2	282.8
67.5°	231.2	229.2	230.2	229.7	231.2	233.3	234.8	236.8	240.3	244.4	247.9
70°	196.4	197.9	195.4	197.4	198.9	199.4	200.5	203.5	207.5	210.0	214.1
72.5°	162.6	162.1	163.1	163.6	165.1	166.1	167.1	170.7	175.2	177.2	180.3
75°	130.3	129.8	131.3	131.3	133.8	134.8	135.8	137.3	141.4	144.4	146.9
77.5°	101.0	101.5	101.0	103.0	102.0	102.5	105.5	107.0	107.5	114.1	115.1
80°	71.7	72.7	73.2	73.7	74.2	73.2	76.7	78.3	78.3	81.8	84.3
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: P242473

CATALOG NUMBER: S123DRP-S775D840-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1042.1	1042.1	1042.1	1042.1
2.5°	985.1	984.6	988.1	985.6
5°	927.5	929.0	924.0	924.0
7.5°	875.5	873.5	874.0	870.5
10°	828.6	825.5	824.5	825.0
12.5°	789.7	789.7	781.6	781.6
15°	760.9	751.3	750.3	753.3
17.5°	729.1	723.5	724.0	723.0
20°	704.9	701.8	701.3	697.8
22.5°	682.6	682.1	682.6	678.6
25°	665.0	667.5	665.5	665.5
27.5°	652.9	652.9	651.3	651.3
30°	638.7	638.2	639.2	639.2
32.5°	624.6	625.6	625.6	626.1
35°	609.9	610.4	612.0	610.9
37.5°	590.7	593.3	592.8	593.8
40°	568.5	570.0	569.5	569.5
42.5°	545.8	546.8	545.3	544.3
45°	520.6	519.6	521.1	519.0
47.5°	492.8	493.3	493.8	495.8
50°	465.0	468.1	468.1	467.5
52.5°	437.8	438.8	441.3	441.3
55°	409.5	410.5	411.5	412.0
57.5°	380.7	380.2	382.2	382.7
60°	349.9	349.9	353.9	355.5
62.5°	317.1	319.1	323.1	320.1
65°	285.3	289.3	288.8	290.8
67.5°	252.0	254.5	258.5	258.5
70°	218.1	220.6	222.7	224.2
72.5°	185.3	186.3	191.9	188.8
75°	150.5	154.0	157.0	155.5
77.5°	117.1	121.7	122.7	121.2
80°	87.9	87.3	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: P242473  
 CATALOG NUMBER: S123DRP-S775D840-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	20.11	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	23.20	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	21.94	23.05	22.38	23.44	23.86
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	22.56	23.55	23.00	23.96	24.40	22.88	23.87	23.32	24.29	24.72
	6H	23.04	23.89	23.49	24.34	24.79	23.25	24.11	23.71	24.55	25.01
	8H	23.17	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	24.19	24.85	25.33
	8H	23.78	24.38	24.30	24.89	25.38	23.85	24.44	24.36	24.95	25.44
	12H	23.93	24.45	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	24.24	24.84	25.32
	8H	23.91	24.44	24.42	24.93	25.49	23.94	24.46	24.45	24.95	25.52