

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: P243151

Luminaire Tested: S122DRP-H675D830-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P243151  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-58)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122DRP-H675D830-X4F0-XX-UDD-A-W  
Description: DEFINE 2 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: (184) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

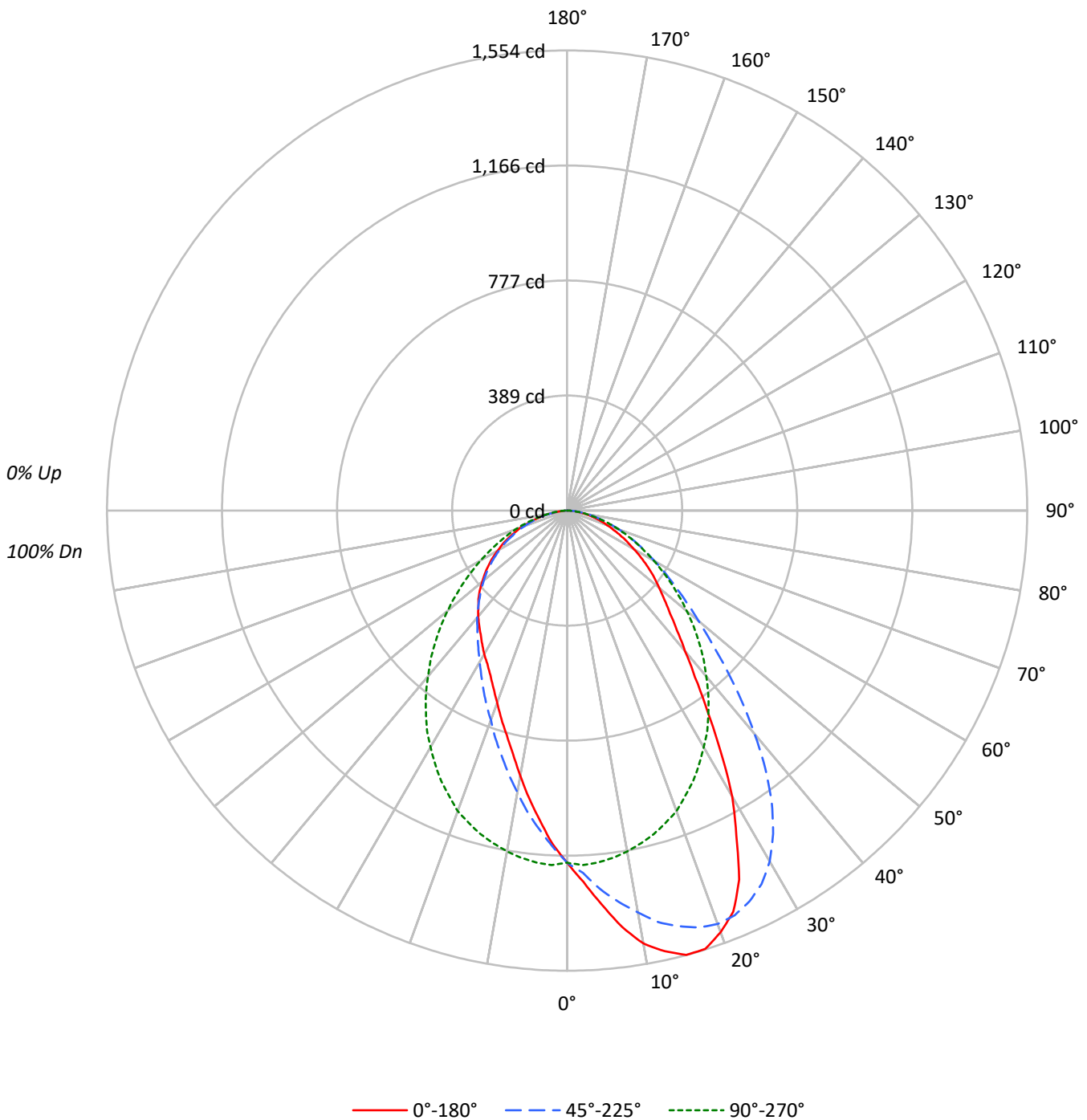
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2638.5 lumens  
Efficiency: N/A  
Efficacy: 111.8 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.16 / 1.24  
Luminous Opening: Rectangular (W 3.88' x L: 0.15' 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

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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88					86				
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76					74				
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66					63				
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57					55				
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51					49				
6	73	61	52	46	72	60	52	46	58	51	46	57	50	45	55	49	45					43				
7	68	56	47	41	67	55	47	41	53	46	41	52	46	41	51	45	40					39				
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37					35				
9	60	47	39	34	58	46	39	34	45	38	34	44	38	34	43	38	33					32				
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31					29				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	22650	22650	22650	22650	22650
5°	25512	24537	22811	20658	20094
10°	28718	26651	22606	18699	17585
15°	30634	28647	22303	16878	15500
20°	30721	30123	21900	15263	13986
25°	28894	30605	21170	14058	12894
30°	24528	30084	20288	12970	12312
35°	19177	28017	19339	12250	11850
40°	15406	24500	18176	11751	11622
45°	13253	20532	16976	11263	11405
50°	12022	17122	15623	10890	11086
55°	11078	14718	14233	10464	10786
60°	9958	12975	12827	9973	10293
65°	8965	11601	11525	9343	9798
70°	7992	10292	10247	8554	9167
75°	7190	8971	8809	7580	8029
80°	6274	7437	7097	6176	6274
85°	5376	6163	5289	4131	3453

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 65°  
 Vertical Angle: 45°  
 Luminance: 28392 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.3	4.3
10°-20°	325.6	12.3
20°-30°	473.5	17.9
30°-40°	507.9	19.3
40°-50°	455.2	17.3
50°-60°	362.9	13.8
60°-70°	245.5	9.3
70°-80°	125.2	4.7
80°-90°	29.3	1.1
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°	912.4	34.6
0°-40°	1420.3	53.8
0°-60°	2238.5	84.8
0°-90°	2638.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2638.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1189	1189	1189	1189	1189	
5°	1334	1283	1193	1080	1051	132
15°	1554	1453	1131	856	786	435
25°	1375	1456	1007	669	614	618
35°	825	1205	832	527	510	523
45°	492	762	630	418	423	385
55°	334	443	429	315	325	298
65°	199	257	256	207	217	197
75°	98	122	120	103	109	104
85°	25	28	24	19	16	29
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°	1189.1	1189.1	1189.1	1189.1	1189.1	1189.1	1189.1	1189.1	1189.1	1189.1	1189.1
2.5°	1255.1	1259.1	1255.5	1254.2	1251.6	1250.7	1243.7	1237.9	1234.4	1224.7	1225.6
5°	1334.3	1343.1	1338.3	1337.8	1328.1	1322.0	1315.8	1307.0	1293.8	1283.3	1274.9
7.5°	1417.9	1413.5	1412.2	1407.4	1400.3	1391.5	1377.9	1365.1	1348.4	1333.0	1321.5
10°	1484.8	1483.5	1485.7	1473.4	1469.0	1455.3	1443.4	1423.6	1402.1	1377.9	1362.9
12.5°	1524.4	1528.4	1531.5	1526.6	1516.1	1512.1	1492.3	1464.6	1457.1	1424.1	1406.0
15°	1553.5	1555.2	1555.7	1550.4	1545.1	1535.0	1523.1	1505.5	1481.3	1452.7	1439.0
17.5°	1551.7	1551.3	1553.9	1550.8	1547.7	1544.7	1535.4	1521.8	1502.9	1476.0	1453.1
20°	1515.6	1523.5	1529.7	1531.0	1530.6	1532.3	1527.9	1519.1	1505.5	1486.1	1460.2
22.5°	1466.3	1463.3	1476.5	1475.6	1481.3	1494.5	1500.2	1496.7	1491.4	1479.1	1458.4
25°	1374.8	1377.9	1387.1	1396.8	1419.2	1427.2	1444.3	1457.5	1459.3	1456.2	1443.4
27.5°	1237.5	1259.5	1264.3	1277.1	1308.3	1334.3	1369.1	1389.8	1419.2	1421.9	1416.2
30°	1115.2	1114.3	1121.8	1144.6	1173.2	1212.4	1257.3	1310.5	1344.4	1367.8	1376.1
32.5°	964.6	968.2	987.5	1015.7	1044.7	1083.9	1135.8	1201.0	1246.3	1294.7	1322.0
35°	824.7	835.7	854.2	873.5	905.2	958.9	1016.6	1070.7	1140.2	1204.9	1248.9
37.5°	709.4	724.4	738.4	756.9	787.7	829.1	881.0	952.8	1021.9	1099.7	1164.4
40°	619.6	625.3	635.0	653.1	673.8	715.1	767.5	821.2	896.0	985.3	1070.3
42.5°	549.2	547.9	558.5	569.9	588.8	619.6	665.4	719.1	793.5	872.7	958.5
45°	492.0	492.4	496.8	508.7	523.7	541.3	576.5	627.1	683.4	762.2	853.3
47.5°	445.4	446.7	453.3	461.6	470.4	486.7	510.0	543.1	595.9	661.9	747.2
50°	405.7	408.0	412.4	418.5	425.1	436.6	454.2	480.1	521.9	577.8	655.3
52.5°	370.5	371.4	372.7	378.5	383.7	394.3	407.5	427.8	460.8	507.4	567.7
55°	333.6	332.7	335.8	340.6	345.5	352.9	366.6	382.9	406.2	443.2	492.9
57.5°	295.7	297.1	299.3	301.9	310.7	318.6	328.7	343.7	362.2	391.2	432.6
60°	261.4	261.4	264.0	267.6	273.3	278.6	288.2	301.9	318.2	340.6	375.4
62.5°	228.0	229.7	232.4	234.1	239.4	246.0	253.5	264.0	279.0	297.1	323.0
65°	198.9	198.0	200.7	204.2	208.2	212.6	220.9	229.7	241.2	257.4	279.0
67.5°	169.0	171.6	172.5	174.3	177.4	183.1	187.0	196.3	205.5	220.0	238.1
70°	143.5	145.2	146.5	148.7	151.4	154.0	158.0	165.5	174.7	184.8	197.6
72.5°	120.6	121.9	120.6	122.8	124.1	126.7	132.0	135.5	142.6	151.4	162.8
75°	97.7	98.6	98.1	100.3	100.8	103.4	106.1	109.1	117.1	121.9	129.8
77.5°	76.6	77.5	77.9	78.8	79.7	81.0	82.3	85.4	89.8	94.2	100.3
80°	57.2	57.2	58.5	59.0	59.4	60.3	62.5	63.4	66.5	67.8	72.6
82.5°	39.6	40.0	40.5	40.5	40.9	41.8	42.2	44.0	44.9	47.1	49.3
85°	24.6	25.1	25.1	25.1	26.4	26.0	26.0	26.8	28.2	28.2	29.0
87.5°	12.3	12.8	12.8	12.8	13.2	13.2	13.2	13.2	13.2	14.1	13.6
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°	1189.1	1189.1	1189.1	1189.1	1189.1	1189.1	1189.1	1189.1	1189.1	1189.1	1189.1
2.5°	1225.2	1224.7	1223.0	1215.0	1208.9	1201.0	1199.6	1198.3	1187.3	1175.4	1171.9
5°	1268.3	1260.4	1249.4	1236.2	1223.0	1208.4	1200.1	1193.0	1176.3	1157.8	1147.3
7.5°	1310.5	1295.1	1278.0	1257.3	1235.3	1212.0	1197.0	1182.9	1160.0	1135.8	1121.3
10°	1346.6	1325.9	1302.2	1274.9	1244.5	1212.8	1190.8	1168.8	1139.8	1110.3	1090.9
12.5°	1376.6	1350.2	1318.9	1281.9	1254.2	1210.6	1179.8	1150.8	1118.7	1080.4	1059.3
15°	1399.4	1373.5	1331.2	1293.8	1257.3	1199.2	1161.8	1131.0	1087.9	1050.5	1017.0
17.5°	1427.2	1390.2	1348.4	1294.7	1254.2	1187.8	1145.5	1105.5	1058.8	1014.8	977.8
20°	1439.5	1400.8	1355.9	1296.0	1244.5	1175.4	1119.1	1080.4	1024.1	973.4	931.6
22.5°	1441.2	1404.3	1355.4	1292.1	1227.8	1157.4	1092.7	1042.1	985.8	932.1	885.0
25°	1433.8	1398.6	1348.0	1285.0	1209.3	1138.0	1065.9	1007.3	942.2	886.8	838.8
27.5°	1413.5	1384.9	1336.9	1269.6	1190.4	1108.1	1029.3	965.5	901.3	838.3	792.6
30°	1381.0	1362.0	1320.7	1249.4	1166.2	1075.5	996.8	922.4	852.9	793.9	744.6
32.5°	1339.1	1329.9	1295.6	1225.2	1141.6	1039.9	957.6	881.0	805.3	749.4	698.8
35°	1285.9	1290.7	1261.7	1197.9	1110.3	1003.8	911.8	831.7	757.8	698.4	651.8
37.5°	1216.8	1240.6	1222.1	1162.2	1070.3	967.3	863.9	783.3	705.9	648.7	607.7
40°	1139.4	1181.2	1172.4	1122.2	1027.1	924.6	817.7	731.0	655.3	601.1	562.0
42.5°	1048.3	1109.0	1118.7	1073.3	984.4	871.3	765.7	682.1	609.1	555.8	518.4
45°	946.2	1021.4	1054.0	1018.3	934.7	819.9	712.5	630.2	558.0	512.7	481.4
47.5°	843.6	934.3	978.3	961.1	876.6	764.9	659.7	579.1	510.9	471.3	441.8
50°	742.4	839.7	903.9	892.5	819.4	712.5	606.4	527.2	464.7	428.2	403.1
52.5°	653.5	745.5	815.5	821.2	755.6	652.6	550.1	476.6	423.4	390.3	369.2
55°	565.9	651.3	727.9	742.0	688.7	589.7	498.2	428.6	380.2	352.9	335.8
57.5°	487.6	565.1	641.2	665.8	622.7	533.4	442.3	381.1	339.3	318.2	303.2
60°	421.2	491.1	556.7	581.8	552.3	470.9	391.2	336.7	301.9	283.0	271.1
62.5°	363.1	417.2	475.3	503.0	483.2	412.4	342.8	294.4	266.2	250.0	240.7
65°	310.7	352.5	398.3	430.4	408.4	355.6	297.5	255.7	231.9	217.0	210.4
67.5°	262.3	297.1	333.6	359.1	348.1	300.1	251.3	218.7	198.9	187.5	181.3
70°	218.3	244.2	273.7	293.5	285.6	248.6	209.9	184.0	167.2	159.3	154.0
72.5°	179.1	195.8	218.3	234.6	226.2	200.2	172.5	151.8	139.5	130.3	126.3
75°	142.1	156.7	172.5	183.5	176.9	157.5	135.5	119.7	111.3	105.6	103.0
77.5°	107.8	119.3	130.3	135.5	132.5	118.4	103.4	91.1	84.1	80.5	77.5
80°	77.5	84.1	91.5	96.4	94.6	84.9	74.4	64.7	61.6	57.2	56.3
82.5°	51.9	57.2	59.0	61.2	59.9	55.4	48.0	42.2	39.6	37.4	37.0
85°	30.8	32.1	34.3	34.3	33.0	29.9	26.0	24.2	21.6	21.1	19.8
87.5°	13.6	13.6	13.6	13.6	13.6	12.8	11.0	10.1	9.2	8.8	8.4
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°	1189.1	1189.1	1189.1	1189.1	1189.1	1189.1	1189.1	1189.1	1189.1	1189.1	1189.1
2.5°	1168.8	1164.4	1158.3	1151.2	1145.1	1135.4	1132.3	1132.3	1134.5	1131.9	1129.7
5°	1138.5	1129.7	1120.9	1107.2	1095.8	1080.4	1076.0	1071.6	1071.1	1066.7	1061.0
7.5°	1105.9	1092.7	1074.7	1055.3	1043.0	1026.3	1017.0	1014.4	1006.0	998.1	988.8
10°	1068.1	1047.8	1026.3	1007.8	988.4	966.8	955.8	948.4	940.0	930.3	923.7
12.5°	1022.3	999.4	979.6	958.0	941.8	911.4	907.9	898.2	881.5	866.9	861.7
15°	994.1	954.1	931.6	911.8	887.2	855.9	844.5	833.9	818.1	808.9	801.4
17.5°	944.4	908.3	880.2	853.7	830.0	805.8	788.6	779.8	767.1	759.1	751.6
20°	899.1	859.9	830.4	799.6	775.0	753.0	738.4	727.4	720.8	712.9	705.4
22.5°	853.3	812.4	784.2	753.0	723.9	710.7	693.6	684.3	675.5	669.4	661.4
25°	800.1	767.5	732.3	708.1	682.6	668.9	652.6	643.8	636.8	629.7	625.8
27.5°	752.5	719.5	687.0	662.8	641.2	628.0	617.9	609.5	600.7	595.4	592.3
30°	703.2	672.9	644.3	620.9	604.2	589.7	583.5	575.6	569.0	566.8	562.0
32.5°	659.2	625.3	602.5	581.3	567.3	557.1	552.7	544.4	543.1	540.9	538.2
35°	615.2	586.2	564.2	546.1	534.3	526.8	521.0	518.8	516.6	514.4	512.2
37.5°	571.7	548.8	528.1	513.6	503.9	498.2	496.8	492.4	492.0	488.9	488.9
40°	532.5	509.2	494.6	483.2	475.3	472.6	469.1	468.2	466.9	466.0	467.8
42.5°	493.3	477.5	465.2	453.3	447.1	444.9	444.0	442.7	441.8	444.5	445.4
45°	456.8	443.2	432.6	424.2	420.7	418.1	418.1	419.4	419.0	420.3	420.3
47.5°	422.9	410.6	401.8	398.7	394.3	393.4	393.9	393.4	395.6	397.4	399.1
50°	390.8	379.8	372.7	369.7	368.8	367.5	369.2	370.1	371.4	373.2	374.1
52.5°	355.1	349.9	345.5	342.4	341.9	342.4	341.9	345.0	346.3	349.0	348.5
55°	324.8	320.8	317.7	314.2	313.8	315.1	316.0	318.6	320.4	322.6	322.1
57.5°	296.2	293.1	289.6	288.7	288.2	288.7	292.7	292.2	294.9	296.6	297.5
60°	264.9	262.7	259.6	259.6	261.0	261.8	263.2	265.4	268.0	267.6	270.6
62.5°	236.3	233.7	232.8	234.1	233.7	235.9	237.2	237.2	240.7	242.0	242.9
65°	207.7	206.8	205.5	205.5	206.8	207.3	209.5	210.8	212.1	214.8	217.0
67.5°	180.9	178.7	178.7	177.8	179.6	180.9	182.2	184.0	184.8	187.9	189.2
70°	152.7	151.8	151.4	152.3	152.3	153.6	155.8	158.0	159.7	160.2	162.8
72.5°	125.4	125.4	125.4	126.7	127.6	128.9	129.4	131.1	133.8	134.2	135.5
75°	100.8	101.2	100.8	101.2	101.7	103.0	103.9	105.6	107.4	107.8	108.7
77.5°	77.9	77.0	76.1	77.5	78.3	81.0	80.5	81.4	83.2	82.3	83.2
80°	54.6	55.9	54.1	56.8	56.8	56.3	57.2	58.5	58.1	59.0	58.1
82.5°	37.0	35.6	35.6	37.0	37.4	36.1	37.0	37.4	37.8	37.0	36.5
85°	20.2	19.8	20.7	19.4	19.8	18.9	18.9	18.0	18.9	18.0	17.2
87.5°	7.5	7.0	7.5	6.2	5.7	5.3	4.8	4.8	4.0	4.0	4.0
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: P243151

CATALOG NUMBER: S122DRP-H675D830-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1189.1	1189.1	1189.1	1189.1
2.5°	1132.8	1127.9	1125.7	1127.5
5°	1054.9	1056.2	1048.3	1050.9
7.5°	987.5	981.8	983.6	980.5
10°	916.2	913.2	908.3	909.2
12.5°	868.3	847.6	846.3	842.3
15°	800.9	789.5	786.9	786.0
17.5°	747.2	737.6	741.1	738.4
20°	698.8	699.3	693.6	690.0
22.5°	656.2	655.3	653.1	649.6
25°	620.1	620.1	614.8	613.5
27.5°	587.1	587.9	583.5	583.5
30°	562.4	559.3	558.9	559.8
32.5°	537.8	534.3	534.7	534.3
35°	511.4	512.2	510.9	509.6
37.5°	488.9	488.9	488.9	487.6
40°	466.9	467.8	466.5	467.4
42.5°	444.9	445.4	445.4	443.6
45°	422.9	422.5	421.6	423.4
47.5°	400.0	400.0	399.6	400.5
50°	374.9	375.8	374.5	374.1
52.5°	349.4	349.9	349.4	350.3
55°	323.5	323.5	323.9	324.8
57.5°	296.6	299.7	297.5	299.3
60°	270.2	270.6	271.1	270.2
62.5°	245.1	244.7	245.1	246.4
65°	217.8	218.7	218.3	217.4
67.5°	191.0	190.1	191.4	190.1
70°	162.4	164.1	162.8	164.6
72.5°	136.4	136.0	136.9	134.7
75°	109.1	109.1	109.6	109.1
77.5°	83.6	82.7	82.3	81.0
80°	57.6	57.6	55.9	57.2
82.5°	35.2	35.6	36.1	33.4
85°	16.7	16.7	16.3	15.8
87.5°	3.5	3.5	4.0	4.4
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243151  
 CATALOG NUMBER: S122DRP-H675D830-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	19.49	21.01	19.85	21.32	21.64	22.33	23.85	22.69	24.16	24.48
	3H	20.84	22.21	21.22	22.53	22.90	23.35	24.71	23.72	25.04	25.40
	4H	21.33	22.61	21.73	22.96	23.33	23.67	24.95	24.07	25.30	25.68
	6H	21.68	22.86	22.09	23.23	23.62	23.87	25.05	24.28	25.42	25.81
	8H	21.78	22.91	22.21	23.30	23.70	23.91	25.04	24.34	25.43	25.83
	12H	21.85	22.93	22.28	23.31	23.74	23.93	25.01	24.36	25.39	25.82
4H	2H	20.37	21.65	20.77	22.00	22.38	22.57	23.85	22.97	24.20	24.58
	3H	21.87	22.93	22.28	23.33	23.73	23.94	25.00	24.35	25.40	25.80
	4H	22.44	23.39	22.87	23.81	24.25	24.45	25.41	24.88	25.83	26.26
	6H	22.87	23.71	23.33	24.15	24.61	24.78	25.62	25.24	26.06	26.52
	8H	23.01	23.79	23.47	24.23	24.70	24.86	25.64	25.32	26.08	26.55
	12H	23.11	23.80	23.59	24.28	24.75	24.90	25.59	25.38	26.07	26.54
8H	4H	22.87	23.65	23.34	24.09	24.56	24.59	25.37	25.05	25.81	26.28
	6H	23.40	24.04	23.89	24.53	25.01	25.03	25.67	25.53	26.16	26.64
	8H	23.58	24.16	24.10	24.67	25.16	25.17	25.74	25.68	26.25	26.74
	12H	23.74	24.25	24.25	24.74	25.30	25.25	25.76	25.76	26.26	26.82
12H	4H	22.93	23.62	23.41	24.10	24.57	24.58	25.28	25.07	25.76	26.23
	6H	23.47	24.05	23.99	24.56	25.05	25.03	25.61	25.55	26.12	26.61
	8H	23.71	24.22	24.22	24.71	25.28	25.21	25.72	25.72	26.21	26.78