

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: P243171

Luminaire Tested: S122DRP-H675D935-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243171
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-H675D935-X4F0-XX-UDD-A-W
Description: DEFINE 2 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

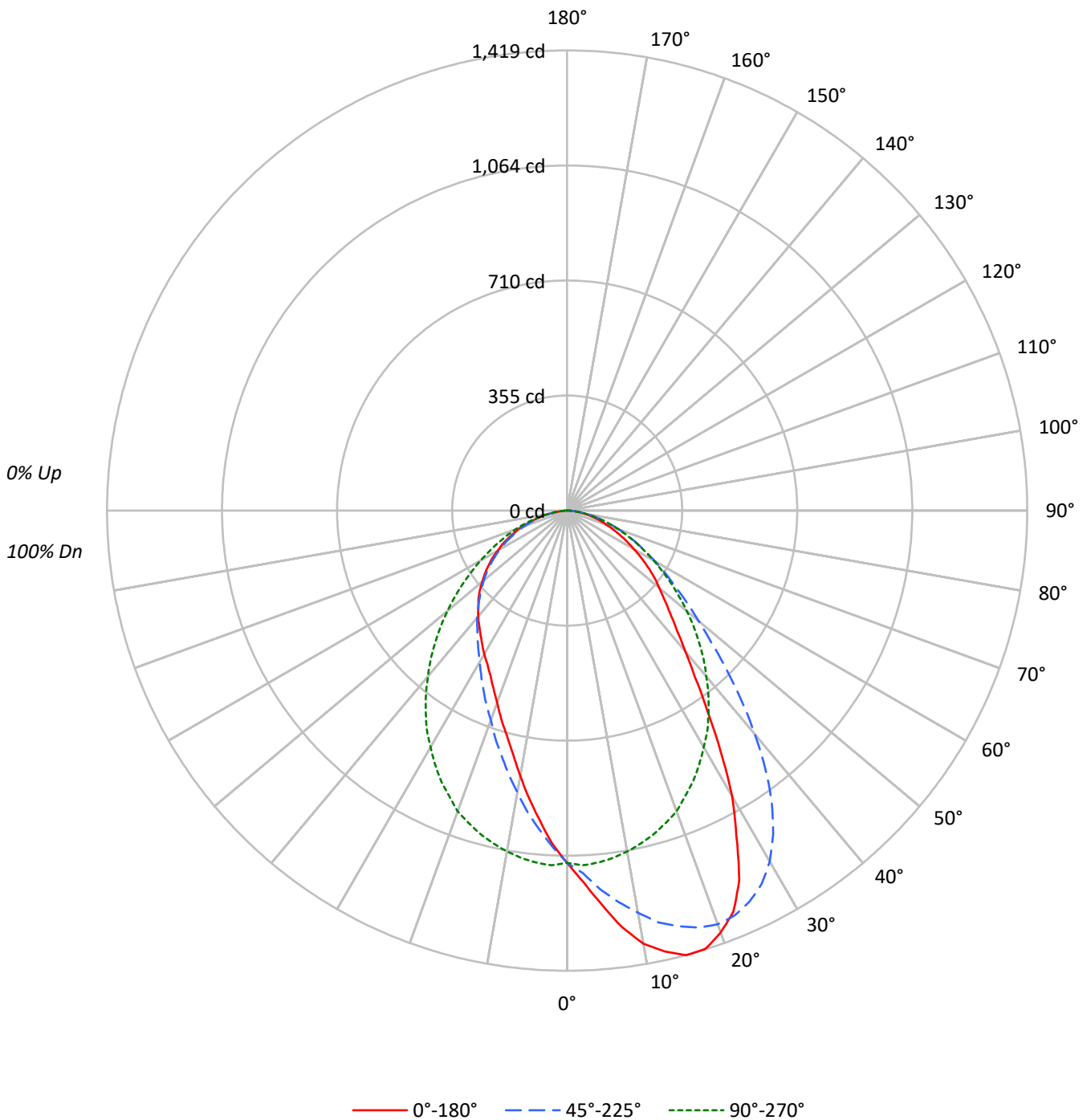
Lumens per Lamp: N/A
Luminaire Lumens: 2410.3 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.16 / 1.24
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	20690	20690	20690	20690	20690
5°	23306	22413	20837	18870	18356
10°	26235	24345	20651	17082	16063
15°	27984	26168	20372	15419	14159
20°	28064	27519	20005	13942	12776
25°	26395	27957	19340	12841	11778
30°	22406	27480	18532	11848	11246
35°	17519	25595	17668	11189	10824
40°	14074	22381	16602	10737	10615
45°	12106	18757	15508	10287	10417
50°	10982	15640	14271	9948	10126
55°	10119	13443	13005	9557	9853
60°	9097	11855	11714	9112	9402
65°	8189	10601	10529	8532	8951
70°	7301	9401	9356	7814	8370
75°	6565	8198	8044	6925	7337
80°	5737	6790	6483	5649	5737
85°	4917	5617	4830	3781	3169

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 65°
 Vertical Angle: 45°
 Luminance: 25935 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.5	4.3
10°-20°	297.4	12.3
20°-30°	432.6	17.9
30°-40°	464.0	19.3
40°-50°	415.9	17.3
50°-60°	331.5	13.8
60°-70°	224.3	9.3
70°-80°	114.4	4.7
80°-90°	26.8	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°	833.5	34.6
0°-40°	1297.5	53.8
0°-60°	2044.9	84.8
0°-90°	2410.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2410.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1086	1086	1086	1086	1086	
5°	1219	1172	1090	987	960	121
15°	1419	1327	1033	782	718	397
25°	1256	1330	920	611	560	565
35°	753	1101	760	481	466	477
45°	449	696	576	382	387	352
55°	305	405	392	288	297	272
65°	182	235	234	189	199	180
75°	89	111	109	94	100	95
85°	22	26	22	17	14	26
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°	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2
2.5°	1146.5	1150.1	1146.9	1145.7	1143.3	1142.5	1136.1	1130.8	1127.6	1118.8	1119.6
5°	1218.9	1226.9	1222.5	1222.1	1213.2	1207.6	1202.0	1193.9	1181.9	1172.2	1164.6
7.5°	1295.3	1291.2	1290.0	1285.6	1279.2	1271.1	1258.7	1247.0	1231.7	1217.7	1207.2
10°	1356.4	1355.2	1357.2	1345.9	1341.9	1329.4	1318.6	1300.5	1280.8	1258.7	1245.0
12.5°	1392.5	1396.2	1399.0	1394.5	1384.9	1381.3	1363.2	1337.9	1331.0	1300.9	1284.4
15°	1419.1	1420.7	1421.1	1416.3	1411.4	1402.2	1391.3	1375.3	1353.1	1327.0	1314.6
17.5°	1417.5	1417.1	1419.5	1416.7	1413.8	1411.0	1402.6	1390.1	1372.8	1348.3	1327.4
20°	1384.5	1391.7	1397.4	1398.6	1398.2	1399.8	1395.8	1387.7	1375.3	1357.6	1333.8
22.5°	1339.5	1336.7	1348.7	1347.9	1353.1	1365.2	1370.4	1367.2	1362.4	1351.1	1332.2
25°	1255.9	1258.7	1267.1	1276.0	1296.5	1303.7	1319.4	1331.4	1333.0	1330.2	1318.6
27.5°	1130.4	1150.5	1155.0	1166.6	1195.2	1218.9	1250.6	1269.5	1296.5	1298.9	1293.6
30°	1018.7	1017.9	1024.7	1045.6	1071.7	1107.5	1148.5	1197.2	1228.1	1249.4	1257.1
32.5°	881.2	884.4	902.1	927.8	954.4	990.1	1037.6	1097.1	1138.5	1182.7	1207.6
35°	753.4	763.4	780.3	798.0	826.9	876.0	928.6	978.1	1041.6	1100.7	1140.9
37.5°	648.0	661.7	674.6	691.4	719.6	757.4	804.8	870.3	933.5	1004.6	1063.7
40°	566.0	571.2	580.1	596.6	615.5	653.3	701.1	750.1	818.5	900.1	977.7
42.5°	501.7	500.5	510.1	520.6	537.9	566.0	607.8	656.9	724.8	797.2	875.6
45°	449.4	449.8	453.9	464.7	478.4	494.5	526.6	572.9	624.3	696.3	779.5
47.5°	406.8	408.0	414.1	421.7	429.7	444.6	465.9	496.1	544.3	604.6	682.6
50°	370.6	372.7	376.7	382.3	388.3	398.8	414.9	438.6	476.8	527.8	598.6
52.5°	338.5	339.3	340.5	345.7	350.5	360.2	372.3	390.7	420.9	463.5	518.6
55°	304.7	303.9	306.7	311.2	315.6	322.4	334.9	349.7	371.0	404.8	450.2
57.5°	270.1	271.4	273.4	275.8	283.8	291.1	300.3	314.0	330.8	357.4	395.2
60°	238.8	238.8	241.2	244.4	249.6	254.5	263.3	275.8	290.6	311.2	342.9
62.5°	208.2	209.8	212.3	213.9	218.7	224.7	231.6	241.2	254.9	271.4	295.1
65°	181.7	180.9	183.3	186.5	190.1	194.2	201.8	209.8	220.3	235.2	254.9
67.5°	154.4	156.8	157.6	159.2	162.0	167.2	170.9	179.3	187.7	201.0	217.5
70°	131.1	132.7	133.9	135.9	138.3	140.7	144.3	151.2	159.6	168.8	180.5
72.5°	110.1	111.4	110.1	112.2	113.4	115.8	120.6	123.8	130.2	138.3	148.7
75°	89.2	90.0	89.6	91.7	92.1	94.5	96.9	99.7	106.9	111.4	118.6
77.5°	69.9	70.8	71.2	72.0	72.8	74.0	75.2	78.0	82.0	86.0	91.7
80°	52.3	52.3	53.5	53.9	54.3	55.1	57.1	57.9	60.7	61.9	66.3
82.5°	36.2	36.6	37.0	37.0	37.4	38.2	38.6	40.2	41.0	43.0	45.0
85°	22.5	22.9	22.9	22.9	24.1	23.7	23.7	24.5	25.7	25.7	26.5
87.5°	11.3	11.7	11.7	11.7	12.1	12.1	12.1	12.1	12.1	12.9	12.5
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°	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2
2.5°	1119.2	1118.8	1117.2	1109.9	1104.3	1097.1	1095.9	1094.7	1084.6	1073.8	1070.5
5°	1158.6	1151.3	1141.3	1129.2	1117.2	1103.9	1096.3	1089.8	1074.6	1057.7	1048.0
7.5°	1197.2	1183.1	1167.4	1148.5	1128.4	1107.1	1093.4	1080.6	1059.7	1037.6	1024.3
10°	1230.1	1211.2	1189.5	1164.6	1136.9	1107.9	1087.8	1067.7	1041.2	1014.3	996.6
12.5°	1257.5	1233.3	1204.8	1171.0	1145.7	1105.9	1077.8	1051.2	1021.9	986.9	967.6
15°	1278.4	1254.7	1216.1	1181.9	1148.5	1095.5	1061.3	1033.1	993.8	959.6	929.0
17.5°	1303.7	1269.9	1231.7	1182.7	1145.7	1085.0	1046.4	1009.8	967.2	927.0	893.3
20°	1315.0	1279.6	1238.6	1183.9	1136.9	1073.8	1022.3	986.9	935.5	889.2	851.0
22.5°	1316.6	1282.8	1238.2	1180.3	1121.6	1057.3	998.2	951.9	900.5	851.4	808.4
25°	1309.7	1277.6	1231.3	1173.8	1104.7	1039.6	973.7	920.2	860.7	810.0	766.2
27.5°	1291.2	1265.1	1221.3	1159.8	1087.4	1012.2	940.3	882.0	823.3	765.8	724.0
30°	1261.5	1244.2	1206.4	1141.3	1065.3	982.5	910.5	842.6	779.1	725.2	680.2
32.5°	1223.3	1214.9	1183.5	1119.2	1042.8	949.9	874.8	804.8	735.7	684.6	638.4
35°	1174.7	1179.1	1152.5	1094.3	1014.3	917.0	833.0	759.8	692.2	638.0	595.4
37.5°	1111.5	1133.2	1116.4	1061.7	977.7	883.6	789.1	715.6	644.8	592.6	555.2
40°	1040.8	1079.0	1070.9	1025.1	938.3	844.6	746.9	667.7	598.6	549.1	513.4
42.5°	957.6	1013.0	1021.9	980.5	899.3	796.0	699.5	623.1	556.4	507.7	473.6
45°	864.3	933.0	962.8	930.2	853.9	748.9	650.8	575.7	509.7	468.3	439.8
47.5°	770.6	853.5	893.7	878.0	800.8	698.7	602.6	529.0	466.7	430.5	403.6
50°	678.2	767.0	825.7	815.3	748.5	650.8	554.0	481.6	424.5	391.1	368.2
52.5°	597.0	681.0	744.9	750.1	690.2	596.2	502.5	435.4	386.7	356.6	337.3
55°	517.0	595.0	664.9	677.8	629.1	538.7	455.1	391.6	347.3	322.4	306.7
57.5°	445.4	516.2	585.7	608.2	568.8	487.2	404.0	348.1	309.9	290.6	277.0
60°	384.7	448.6	508.5	531.4	504.5	430.1	357.4	307.5	275.8	258.5	247.6
62.5°	331.7	381.1	434.2	459.5	441.4	376.7	313.2	268.9	243.2	228.3	219.9
65°	283.8	322.0	363.8	393.2	373.1	324.8	271.8	233.6	211.9	198.2	192.2
67.5°	239.6	271.4	304.7	328.0	318.0	274.2	229.5	199.8	181.7	171.3	165.6
70°	199.4	223.1	250.0	268.1	260.9	227.1	191.8	168.0	152.8	145.5	140.7
72.5°	163.6	178.9	199.4	214.3	206.6	182.9	157.6	138.7	127.4	119.0	115.4
75°	129.8	143.1	157.6	167.6	161.6	143.9	123.8	109.3	101.7	96.5	94.1
77.5°	98.5	108.9	119.0	123.8	121.0	108.1	94.5	83.2	76.8	73.6	70.8
80°	70.8	76.8	83.6	88.0	86.4	77.6	67.9	59.1	56.3	52.3	51.5
82.5°	47.4	52.3	53.9	55.9	54.7	50.7	43.8	38.6	36.2	34.2	33.8
85°	28.1	29.3	31.4	31.4	30.2	27.3	23.7	22.1	19.7	19.3	18.1
87.5°	12.5	12.5	12.5	12.5	12.5	11.7	10.1	9.2	8.4	8.0	7.6
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°	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2
2.5°	1067.7	1063.7	1058.1	1051.6	1046.0	1037.2	1034.4	1034.4	1036.4	1034.0	1031.9
5°	1040.0	1031.9	1023.9	1011.4	1001.0	986.9	982.9	978.9	978.5	974.5	969.2
7.5°	1010.2	998.2	981.7	964.0	952.7	937.5	929.0	926.6	919.0	911.7	903.3
10°	975.7	957.2	937.5	920.6	902.9	883.2	873.2	866.3	858.7	849.8	843.8
12.5°	933.9	912.9	894.9	875.2	860.3	832.5	829.3	820.5	805.2	791.9	787.1
15°	908.1	871.5	851.0	833.0	810.4	781.9	771.4	761.8	747.3	738.9	732.0
17.5°	862.7	829.7	804.0	779.9	758.2	736.1	720.4	712.3	700.7	693.5	686.6
20°	821.3	785.5	758.6	730.4	707.9	687.8	674.6	664.5	658.5	651.2	644.4
22.5°	779.5	742.1	716.4	687.8	661.3	649.2	633.6	625.1	617.1	611.4	604.2
25°	730.8	701.1	668.9	646.8	623.5	611.0	596.2	588.1	581.7	575.3	571.6
27.5°	687.4	657.3	627.5	605.4	585.7	573.7	564.4	556.8	548.7	543.9	541.1
30°	642.4	614.7	588.5	567.2	552.0	538.7	533.1	525.8	519.8	517.8	513.4
32.5°	602.2	571.2	550.3	531.0	518.2	508.9	504.9	497.3	496.1	494.1	491.6
35°	562.0	535.5	515.4	498.9	488.0	481.2	476.0	474.0	472.0	469.9	467.9
37.5°	522.2	501.3	482.4	469.1	460.3	455.1	453.9	449.8	449.4	446.6	446.6
40°	486.4	465.1	451.9	441.4	434.2	431.8	428.5	427.7	426.5	425.7	427.3
42.5°	450.6	436.2	424.9	414.1	408.4	406.4	405.6	404.4	403.6	406.0	406.8
45°	417.3	404.8	395.2	387.5	384.3	381.9	381.9	383.1	382.7	383.9	383.9
47.5°	386.3	375.1	367.0	364.2	360.2	359.4	359.8	359.4	361.4	363.0	364.6
50°	357.0	346.9	340.5	337.7	336.9	335.7	337.3	338.1	339.3	340.9	341.7
52.5°	324.4	319.6	315.6	312.8	312.4	312.8	312.4	315.2	316.4	318.8	318.4
55°	296.7	293.1	290.2	287.0	286.6	287.8	288.6	291.1	292.7	294.7	294.3
57.5°	270.5	267.7	264.5	263.7	263.3	263.7	267.3	266.9	269.3	271.0	271.8
60°	242.0	240.0	237.2	237.2	238.4	239.2	240.4	242.4	244.8	244.4	247.2
62.5°	215.9	213.5	212.7	213.9	213.5	215.5	216.7	216.7	219.9	221.1	221.9
65°	189.7	188.9	187.7	187.7	188.9	189.3	191.4	192.6	193.8	196.2	198.2
67.5°	165.2	163.2	163.2	162.4	164.0	165.2	166.4	168.0	168.8	171.7	172.9
70°	139.5	138.7	138.3	139.1	139.1	140.3	142.3	144.3	145.9	146.3	148.7
72.5°	114.6	114.6	114.6	115.8	116.6	117.8	118.2	119.8	122.2	122.6	123.8
75°	92.1	92.5	92.1	92.5	92.9	94.1	94.9	96.5	98.1	98.5	99.3
77.5°	71.2	70.4	69.5	70.8	71.6	74.0	73.6	74.4	76.0	75.2	76.0
80°	49.8	51.1	49.4	51.9	51.9	51.5	52.3	53.5	53.1	53.9	53.1
82.5°	33.8	32.6	32.6	33.8	34.2	33.0	33.8	34.2	34.6	33.8	33.4
85°	18.5	18.1	18.9	17.7	18.1	17.3	17.3	16.5	17.3	16.5	15.7
87.5°	6.8	6.4	6.8	5.6	5.2	4.8	4.4	4.4	3.6	3.6	3.6
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: P243171

CATALOG NUMBER: S122DRP-H675D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1086.2	1086.2	1086.2	1086.2
2.5°	1034.8	1030.3	1028.3	1029.9
5°	963.6	964.8	957.6	960.0
7.5°	902.1	896.9	898.5	895.7
10°	837.0	834.2	829.7	830.5
12.5°	793.2	774.3	773.1	769.4
15°	731.6	721.2	718.8	718.0
17.5°	682.6	673.8	677.0	674.6
20°	638.4	638.8	633.6	630.3
22.5°	599.4	598.6	596.6	593.4
25°	566.4	566.4	561.6	560.4
27.5°	536.3	537.1	533.1	533.1
30°	513.8	510.9	510.5	511.3
32.5°	491.2	488.0	488.4	488.0
35°	467.1	467.9	466.7	465.5
37.5°	446.6	446.6	446.6	445.4
40°	426.5	427.3	426.1	426.9
42.5°	406.4	406.8	406.8	405.2
45°	386.3	385.9	385.1	386.7
47.5°	365.4	365.4	365.0	365.8
50°	342.5	343.3	342.1	341.7
52.5°	319.2	319.6	319.2	320.0
55°	295.5	295.5	295.9	296.7
57.5°	271.0	273.8	271.8	273.4
60°	246.8	247.2	247.6	246.8
62.5°	223.9	223.5	223.9	225.1
65°	199.0	199.8	199.4	198.6
67.5°	174.5	173.7	174.9	173.7
70°	148.3	149.9	148.7	150.3
72.5°	124.6	124.2	125.0	123.0
75°	99.7	99.7	100.1	99.7
77.5°	76.4	75.6	75.2	74.0
80°	52.7	52.7	51.1	52.3
82.5°	32.2	32.6	33.0	30.6
85°	15.3	15.3	14.9	14.5
87.5°	3.2	3.2	3.6	4.0
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P243171
 CATALOG NUMBER: S122DRP-H675D935-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	19.17	20.70	19.54	21.01	21.33	22.01	23.53	22.38	23.85	24.16
	3H	20.53	21.89	20.90	22.22	22.58	23.03	24.40	23.41	24.73	25.09
	4H	21.01	22.29	21.41	22.64	23.02	23.36	24.64	23.76	24.99	25.37
	6H	21.36	22.55	21.77	22.91	23.30	23.55	24.74	23.97	25.10	25.50
	8H	21.47	22.60	21.89	22.99	23.39	23.60	24.72	24.02	25.11	25.51
	12H	21.54	22.62	21.97	23.00	23.43	23.61	24.69	24.04	25.07	25.50
4H	2H	20.06	21.34	20.46	21.69	22.06	22.25	23.53	22.65	23.88	24.26
	3H	21.55	22.62	21.96	23.02	23.42	23.62	24.69	24.03	25.09	25.49
	4H	22.12	23.08	22.55	23.50	23.93	24.14	25.10	24.57	25.51	25.95
	6H	22.56	23.39	23.02	23.83	24.29	24.47	25.30	24.93	25.75	26.20
	8H	22.69	23.47	23.16	23.92	24.38	24.54	25.32	25.01	25.77	26.23
	12H	22.79	23.49	23.27	23.97	24.44	24.58	25.28	25.06	25.76	26.23
8H	4H	22.56	23.34	23.02	23.78	24.25	24.27	25.05	24.74	25.50	25.96
	6H	23.08	23.72	23.58	24.22	24.69	24.72	25.36	25.21	25.85	26.33
	8H	23.27	23.84	23.78	24.35	24.84	24.85	25.43	25.36	25.94	26.42
	12H	23.42	23.93	23.93	24.42	24.99	24.94	25.45	25.45	25.94	26.51
12H	4H	22.61	23.31	23.10	23.79	24.26	24.27	24.96	24.75	25.44	25.91
	6H	23.16	23.74	23.67	24.25	24.73	24.72	25.30	25.23	25.80	26.29
	8H	23.40	23.91	23.91	24.40	24.96	24.90	25.41	25.41	25.90	26.46