

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: P243166

Luminaire Tested: S122DRP-H675D930-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243166
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-H675D930-X4F0-XX-UDD-A-W
Description: DEFINE 2 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

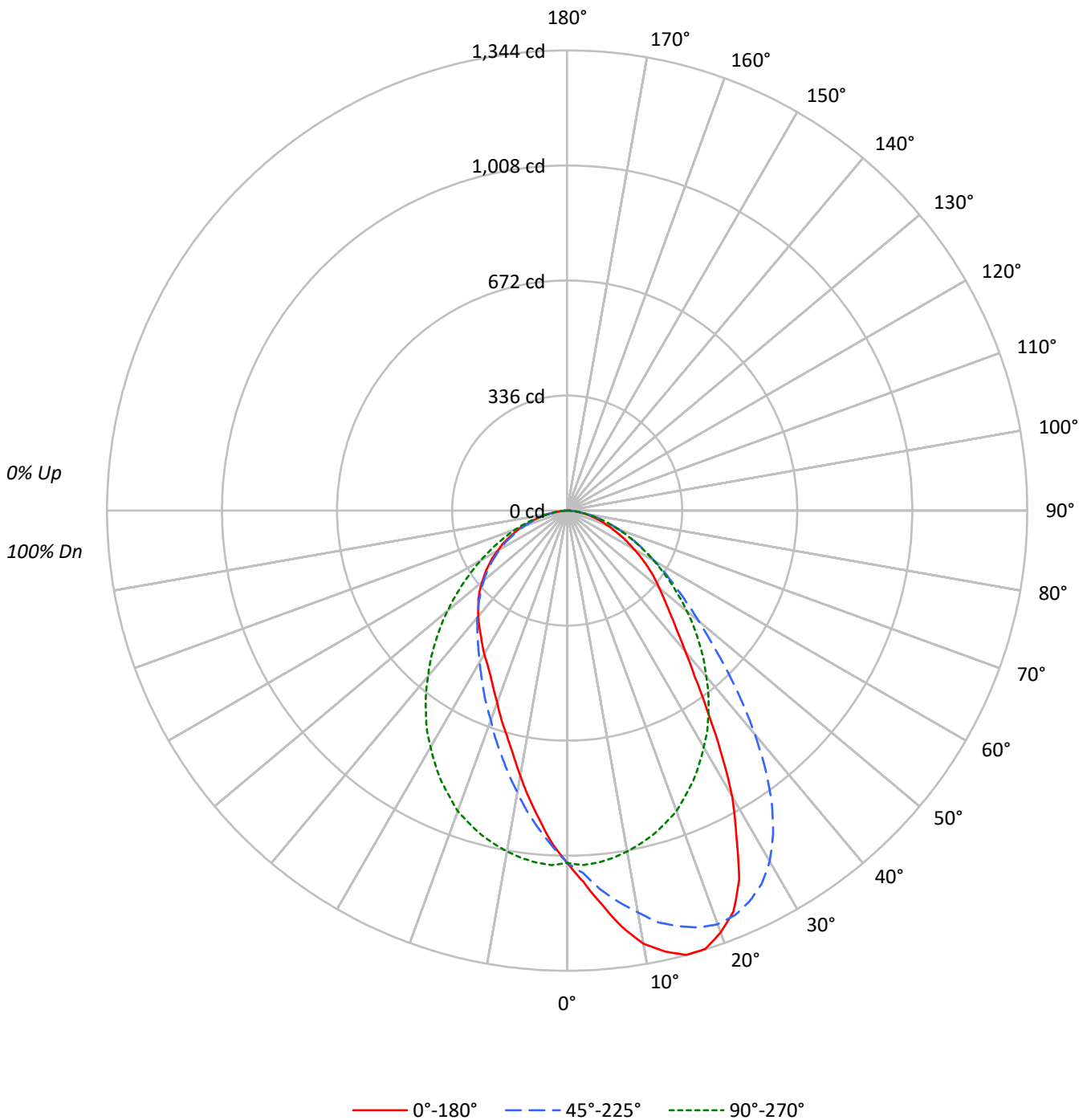
Lumens per Lamp: N/A
Luminaire Lumens: 2282.3 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.16 / 1.24
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

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°	19592	19592	19592	19592	19592
5°	22069	21224	19732	17868	17381
10°	24842	23053	19554	16175	15212
15°	26497	24780	19292	14600	13407
20°	26574	26057	18942	13202	12099
25°	24993	26473	18312	12160	11152
30°	21216	26022	17549	11219	10650
35°	16589	24237	16731	10596	10250
40°	13328	21192	15722	10165	10053
45°	11465	17760	14684	9741	9865
50°	10401	14811	13513	9420	9589
55°	9581	12729	12314	9053	9328
60°	8613	11223	11093	8629	8903
65°	7757	10037	9970	8081	8473
70°	6911	8905	8861	7401	7931
75°	6219	7757	7617	6557	6947
80°	5430	6428	6143	5342	5430
85°	4655	5333	4568	3584	2994

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 65°
 Vertical Angle: 45°
 Luminance: 24559 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.0	4.3
10°-20°	281.7	12.3
20°-30°	409.6	17.9
30°-40°	439.4	19.3
40°-50°	393.8	17.3
50°-60°	313.9	13.8
60°-70°	212.4	9.3
70°-80°	108.3	4.7
80°-90°	25.4	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°	789.2	34.6
0°-40°	1228.6	53.8
0°-60°	1936.3	84.8
0°-90°	2282.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2282.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1029	1029	1029	1029	1029	
5°	1154	1110	1032	934	909	114
15°	1344	1257	978	740	680	376
25°	1189	1260	871	579	531	535
35°	713	1042	720	456	441	452
45°	426	659	545	362	366	333
55°	288	383	371	273	281	258
65°	172	223	221	179	188	171
75°	84	105	104	89	94	90
85°	21	24	21	16	14	25
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°	1028.6	1028.6	1028.6	1028.6	1028.6	1028.6	1028.6	1028.6	1028.6	1028.6	1028.6
2.5°	1085.7	1089.1	1086.0	1084.9	1082.6	1081.9	1075.8	1070.8	1067.8	1059.4	1060.2
5°	1154.2	1161.8	1157.6	1157.2	1148.8	1143.5	1138.2	1130.6	1119.2	1110.0	1102.8
7.5°	1226.5	1222.7	1221.6	1217.4	1211.3	1203.7	1191.9	1180.8	1166.4	1153.0	1143.1
10°	1284.4	1283.2	1285.1	1274.5	1270.7	1258.9	1248.6	1231.5	1212.8	1191.9	1178.9
12.5°	1318.6	1322.1	1324.7	1320.5	1311.4	1308.0	1290.8	1266.9	1260.4	1231.8	1216.2
15°	1343.7	1345.3	1345.7	1341.1	1336.5	1327.8	1317.5	1302.3	1281.3	1256.6	1244.8
17.5°	1342.2	1341.8	1344.1	1341.5	1338.8	1336.1	1328.1	1316.3	1300.0	1276.8	1257.0
20°	1311.0	1317.9	1323.2	1324.3	1324.0	1325.5	1321.7	1314.1	1302.3	1285.5	1263.0
22.5°	1268.4	1265.7	1277.1	1276.4	1281.3	1292.7	1297.7	1294.6	1290.1	1279.4	1261.5
25°	1189.2	1191.9	1199.9	1208.2	1227.6	1234.5	1249.3	1260.8	1262.3	1259.6	1248.6
27.5°	1070.4	1089.5	1093.7	1104.7	1131.7	1154.2	1184.2	1202.1	1227.6	1229.9	1225.0
30°	964.6	963.8	970.3	990.1	1014.9	1048.7	1087.6	1133.6	1162.9	1183.1	1190.3
32.5°	834.4	837.5	854.2	878.6	903.7	937.6	982.5	1038.8	1078.0	1119.9	1143.5
35°	713.4	722.9	738.9	755.6	783.0	829.5	879.3	926.2	986.3	1042.3	1080.3
37.5°	613.6	626.6	638.8	654.7	681.4	717.2	762.1	824.1	883.9	951.3	1007.2
40°	536.0	540.9	549.3	564.9	582.8	618.6	663.9	710.3	775.0	852.3	925.8
42.5°	475.1	473.9	483.1	493.0	509.3	536.0	575.6	622.0	686.3	754.9	829.1
45°	425.6	426.0	429.8	440.0	453.0	468.2	498.7	542.4	591.2	659.3	738.1
47.5°	385.2	386.4	392.1	399.3	406.9	421.0	441.2	469.7	515.4	572.5	646.4
50°	351.0	352.9	356.7	362.0	367.7	377.6	392.8	415.3	451.5	499.8	566.8
52.5°	320.5	321.3	322.4	327.4	331.9	341.1	352.5	370.0	398.6	438.9	491.1
55°	288.5	287.8	290.4	294.6	298.8	305.3	317.1	331.2	351.4	383.3	426.3
57.5°	255.8	256.9	258.9	261.1	268.7	275.6	284.4	297.3	313.3	338.4	374.2
60°	226.1	226.1	228.4	231.4	236.4	241.0	249.3	261.1	275.2	294.6	324.7
62.5°	197.2	198.7	201.0	202.5	207.1	212.8	219.3	228.4	241.3	256.9	279.4
65°	172.1	171.3	173.6	176.6	180.1	183.9	191.1	198.7	208.6	222.7	241.3
67.5°	146.2	148.5	149.2	150.7	153.4	158.4	161.8	169.8	177.8	190.3	205.9
70°	124.1	125.6	126.8	128.7	130.9	133.2	136.7	143.1	151.1	159.9	170.9
72.5°	104.3	105.4	104.3	106.2	107.3	109.6	114.2	117.2	123.3	130.9	140.8
75°	84.5	85.3	84.9	86.8	87.2	89.5	91.7	94.4	101.3	105.4	112.3
77.5°	66.2	67.0	67.4	68.1	68.9	70.0	71.2	73.8	77.7	81.5	86.8
80°	49.5	49.5	50.6	51.0	51.4	52.2	54.1	54.8	57.5	58.6	62.8
82.5°	34.3	34.6	35.0	35.0	35.4	36.2	36.5	38.1	38.8	40.7	42.6
85°	21.3	21.7	21.7	21.7	22.8	22.5	22.5	23.2	24.4	24.4	25.1
87.5°	10.7	11.0	11.0	11.0	11.4	11.4	11.4	11.4	11.4	12.2	11.8
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°	1028.6	1028.6	1028.6	1028.6	1028.6	1028.6	1028.6	1028.6	1028.6	1028.6	1028.6
2.5°	1059.8	1059.4	1057.9	1051.0	1045.7	1038.8	1037.7	1036.6	1027.0	1016.8	1013.7
5°	1097.1	1090.2	1080.7	1069.3	1057.9	1045.3	1038.1	1032.0	1017.5	1001.5	992.4
7.5°	1133.6	1120.3	1105.5	1087.6	1068.5	1048.4	1035.4	1023.2	1003.4	982.5	969.9
10°	1164.8	1146.9	1126.4	1102.8	1076.5	1049.1	1030.1	1011.0	985.9	960.4	943.7
12.5°	1190.7	1167.9	1140.9	1108.9	1084.9	1047.2	1020.6	995.4	967.7	934.5	916.3
15°	1210.5	1188.1	1151.5	1119.2	1087.6	1037.3	1005.0	978.3	941.0	908.6	879.7
17.5°	1234.5	1202.5	1166.4	1119.9	1084.9	1027.4	990.9	956.2	915.9	877.8	845.8
20°	1245.2	1211.7	1172.8	1121.1	1076.5	1016.8	968.0	934.5	885.8	842.0	805.9
22.5°	1246.7	1214.7	1172.4	1117.6	1062.1	1001.1	945.2	901.4	852.7	806.2	765.5
25°	1240.2	1209.8	1166.0	1111.5	1046.1	984.4	922.0	871.3	815.0	767.0	725.5
27.5°	1222.7	1198.0	1156.5	1098.2	1029.7	958.5	890.4	835.2	779.6	725.2	685.6
30°	1194.5	1178.2	1142.4	1080.7	1008.8	930.3	862.2	797.9	737.7	686.7	644.1
32.5°	1158.4	1150.4	1120.7	1059.8	987.4	899.5	828.3	762.1	696.6	648.3	604.5
35°	1112.3	1116.5	1091.4	1036.2	960.4	868.3	788.7	719.5	655.5	604.1	563.8
37.5°	1052.5	1073.1	1057.1	1005.3	925.8	836.7	747.2	677.6	610.6	561.1	525.7
40°	985.5	1021.7	1014.1	970.7	888.5	799.8	707.3	632.3	566.8	520.0	486.1
42.5°	906.7	959.3	967.7	928.4	851.5	753.7	662.4	590.0	526.8	480.8	448.4
45°	818.4	883.5	911.7	880.9	808.5	709.2	616.3	545.1	482.7	443.5	416.4
47.5°	729.7	808.2	846.2	831.4	758.3	661.6	570.6	501.0	442.0	407.7	382.2
50°	642.2	726.3	781.9	772.0	708.8	616.3	524.6	456.0	402.0	370.4	348.7
52.5°	565.3	644.8	705.4	710.3	653.6	564.5	475.8	412.3	366.2	337.7	319.4
55°	489.5	563.4	629.6	641.8	595.7	510.1	430.9	370.8	328.9	305.3	290.4
57.5°	421.8	488.8	554.6	575.9	538.6	461.4	382.6	329.7	293.5	275.2	262.3
60°	364.3	424.8	481.5	503.2	477.7	407.3	338.4	291.2	261.1	244.8	234.5
62.5°	314.0	360.9	411.1	435.1	418.0	356.7	296.5	254.7	230.3	216.2	208.2
65°	268.7	304.9	344.5	372.3	353.3	307.6	257.3	221.2	200.6	187.7	182.0
67.5°	226.9	256.9	288.5	310.6	301.1	259.6	217.4	189.2	172.1	162.2	156.8
70°	188.8	211.3	236.8	253.9	247.1	215.1	181.6	159.1	144.7	137.8	133.2
72.5°	154.9	169.4	188.8	202.9	195.7	173.2	149.2	131.3	120.7	112.7	109.3
75°	123.0	135.5	149.2	158.7	153.0	136.3	117.2	103.5	96.3	91.4	89.1
77.5°	93.3	103.2	112.7	117.2	114.6	102.4	89.5	78.8	72.7	69.7	67.0
80°	67.0	72.7	79.2	83.4	81.8	73.5	64.3	56.0	53.3	49.5	48.7
82.5°	44.9	49.5	51.0	52.9	51.8	48.0	41.5	36.5	34.3	32.4	32.0
85°	26.6	27.8	29.7	29.7	28.5	25.9	22.5	20.9	18.7	18.3	17.1
87.5°	11.8	11.8	11.8	11.8	11.8	11.0	9.5	8.8	8.0	7.6	7.2
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°	1028.6	1028.6	1028.6	1028.6	1028.6	1028.6	1028.6	1028.6	1028.6	1028.6	1028.6
2.5°	1011.0	1007.2	1001.9	995.8	990.5	982.1	979.5	979.5	981.4	979.1	977.2
5°	984.8	977.2	969.6	957.8	947.9	934.5	930.7	926.9	926.5	922.7	917.8
7.5°	956.6	945.2	929.6	912.8	902.2	887.7	879.7	877.4	870.2	863.3	855.4
10°	923.9	906.4	887.7	871.7	855.0	836.3	826.8	820.3	813.1	804.7	799.0
12.5°	884.3	864.5	847.4	828.7	814.6	788.4	785.3	776.9	762.5	749.9	745.3
15°	859.9	825.3	805.9	788.7	767.4	740.4	730.5	721.4	707.7	699.7	693.2
17.5°	816.9	785.7	761.3	738.5	717.9	697.0	682.2	674.5	663.5	656.6	650.2
20°	777.7	743.8	718.3	691.7	670.4	651.3	638.8	629.2	623.5	616.7	610.2
22.5°	738.1	702.7	678.3	651.3	626.2	614.8	599.9	591.9	584.3	579.0	572.1
25°	692.0	663.9	633.4	612.5	590.4	578.6	564.5	556.9	550.8	544.7	541.3
27.5°	650.9	622.4	594.2	573.3	554.6	543.2	534.5	527.2	519.6	515.0	512.4
30°	608.3	582.0	557.3	537.1	522.7	510.1	504.8	497.9	492.2	490.3	486.1
32.5°	570.2	540.9	521.1	502.9	490.7	481.9	478.1	470.9	469.7	467.8	465.6
35°	532.2	507.0	488.0	472.4	462.1	455.7	450.7	448.8	446.9	445.0	443.1
37.5°	494.5	474.7	456.8	444.2	435.9	430.9	429.8	426.0	425.6	422.9	422.9
40°	460.6	440.4	427.9	418.0	411.1	408.8	405.8	405.0	403.9	403.1	404.6
42.5°	426.7	413.0	402.4	392.1	386.8	384.9	384.1	382.9	382.2	384.5	385.2
45°	395.1	383.3	374.2	367.0	363.9	361.6	361.6	362.8	362.4	363.5	363.5
47.5°	365.8	355.2	347.5	344.9	341.1	340.3	340.7	340.3	342.2	343.7	345.3
50°	338.0	328.5	322.4	319.8	319.0	317.9	319.4	320.1	321.3	322.8	323.6
52.5°	307.2	302.6	298.8	296.2	295.8	296.2	295.8	298.4	299.6	301.9	301.5
55°	280.9	277.5	274.8	271.8	271.4	272.6	273.3	275.6	277.1	279.0	278.6
57.5°	256.2	253.5	250.5	249.7	249.3	249.7	253.1	252.8	255.0	256.6	257.3
60°	229.2	227.3	224.6	224.6	225.7	226.5	227.6	229.5	231.8	231.4	234.1
62.5°	204.4	202.1	201.4	202.5	202.1	204.0	205.2	205.2	208.2	209.4	210.1
65°	179.7	178.9	177.8	177.8	178.9	179.3	181.2	182.3	183.5	185.8	187.7
67.5°	156.5	154.6	154.6	153.8	155.3	156.5	157.6	159.1	159.9	162.5	163.7
70°	132.1	131.3	130.9	131.7	131.7	132.9	134.8	136.7	138.2	138.6	140.8
72.5°	108.5	108.5	108.5	109.6	110.4	111.5	111.9	113.4	115.7	116.1	117.2
75°	87.2	87.6	87.2	87.6	87.9	89.1	89.8	91.4	92.9	93.3	94.0
77.5°	67.4	66.6	65.9	67.0	67.8	70.0	69.7	70.4	71.9	71.2	71.9
80°	47.2	48.3	46.8	49.1	49.1	48.7	49.5	50.6	50.2	51.0	50.2
82.5°	32.0	30.8	30.8	32.0	32.4	31.2	32.0	32.4	32.7	32.0	31.6
85°	17.5	17.1	17.9	16.7	17.1	16.4	16.4	15.6	16.4	15.6	14.8
87.5°	6.5	6.1	6.5	5.3	4.9	4.6	4.2	4.2	3.4	3.4	3.4
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: P243166

CATALOG NUMBER: S122DRP-H675D930-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1028.6	1028.6	1028.6	1028.6
2.5°	979.8	975.6	973.7	975.3
5°	912.5	913.6	906.7	909.0
7.5°	854.2	849.3	850.8	848.1
10°	792.5	789.9	785.7	786.5
12.5°	751.1	733.2	732.0	728.6
15°	692.8	682.9	680.6	679.9
17.5°	646.4	638.0	641.0	638.8
20°	604.5	604.9	599.9	596.9
22.5°	567.6	566.8	564.9	561.9
25°	536.4	536.4	531.8	530.6
27.5°	507.8	508.6	504.8	504.8
30°	486.5	483.8	483.4	484.2
32.5°	465.2	462.1	462.5	462.1
35°	442.3	443.1	442.0	440.8
37.5°	422.9	422.9	422.9	421.8
40°	403.9	404.6	403.5	404.3
42.5°	384.9	385.2	385.2	383.7
45°	365.8	365.4	364.7	366.2
47.5°	346.0	346.0	345.6	346.4
50°	324.3	325.1	323.9	323.6
52.5°	302.2	302.6	302.2	303.0
55°	279.8	279.8	280.2	280.9
57.5°	256.6	259.2	257.3	258.9
60°	233.7	234.1	234.5	233.7
62.5°	212.0	211.6	212.0	213.2
65°	188.4	189.2	188.8	188.0
67.5°	165.2	164.4	165.6	164.4
70°	140.5	142.0	140.8	142.4
72.5°	118.0	117.6	118.4	116.5
75°	94.4	94.4	94.8	94.4
77.5°	72.3	71.6	71.2	70.0
80°	49.9	49.9	48.3	49.5
82.5°	30.5	30.8	31.2	28.9
85°	14.5	14.5	14.1	13.7
87.5°	3.0	3.0	3.4	3.8
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243166
 CATALOG NUMBER: S122DRP-H675D930-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	18.98	20.51	19.35	20.82	21.13	21.82	23.34	22.19	23.66	23.97
	3H	20.34	21.70	20.71	22.03	22.39	22.84	24.21	23.22	24.54	24.90
	4H	20.82	22.10	21.22	22.45	22.83	23.17	24.45	23.57	24.80	25.18
	6H	21.17	22.36	21.58	22.72	23.11	23.36	24.55	23.78	24.92	25.31
	8H	21.28	22.41	21.70	22.80	23.20	23.41	24.53	23.83	24.92	25.33
	12H	21.35	22.43	21.78	22.81	23.24	23.42	24.50	23.85	24.88	25.31
4H	2H	19.87	21.15	20.26	21.50	21.87	22.06	23.35	22.46	23.69	24.07
	3H	21.36	22.43	21.77	22.83	23.23	23.43	24.50	23.84	24.90	25.30
	4H	21.93	22.89	22.36	23.30	23.74	23.95	24.91	24.38	25.32	25.76
	6H	22.37	23.20	22.83	23.64	24.10	24.28	25.11	24.74	25.56	26.02
	8H	22.50	23.28	22.97	23.73	24.19	24.35	25.13	24.82	25.58	26.04
	12H	22.60	23.30	23.08	23.78	24.25	24.39	25.09	24.88	25.57	26.04
8H	4H	22.37	23.15	22.83	23.59	24.06	24.08	24.86	24.55	25.31	25.77
	6H	22.89	23.53	23.39	24.02	24.50	24.53	25.17	25.02	25.66	26.14
	8H	23.08	23.65	23.59	24.16	24.65	24.66	25.24	25.18	25.75	26.24
	12H	23.23	23.74	23.74	24.23	24.80	24.75	25.26	25.26	25.75	26.32
12H	4H	22.42	23.12	22.91	23.60	24.07	24.08	24.77	24.56	25.25	25.72
	6H	22.97	23.55	23.48	24.05	24.54	24.53	25.11	25.04	25.62	26.10
	8H	23.21	23.71	23.72	24.21	24.77	24.71	25.22	25.22	25.71	26.27