

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: P242286

Luminaire Tested: S122DRP-S675D927-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242286
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DRP-S675D927-X4F0-XX-UDD-A-W
Description: DEFINE 2 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

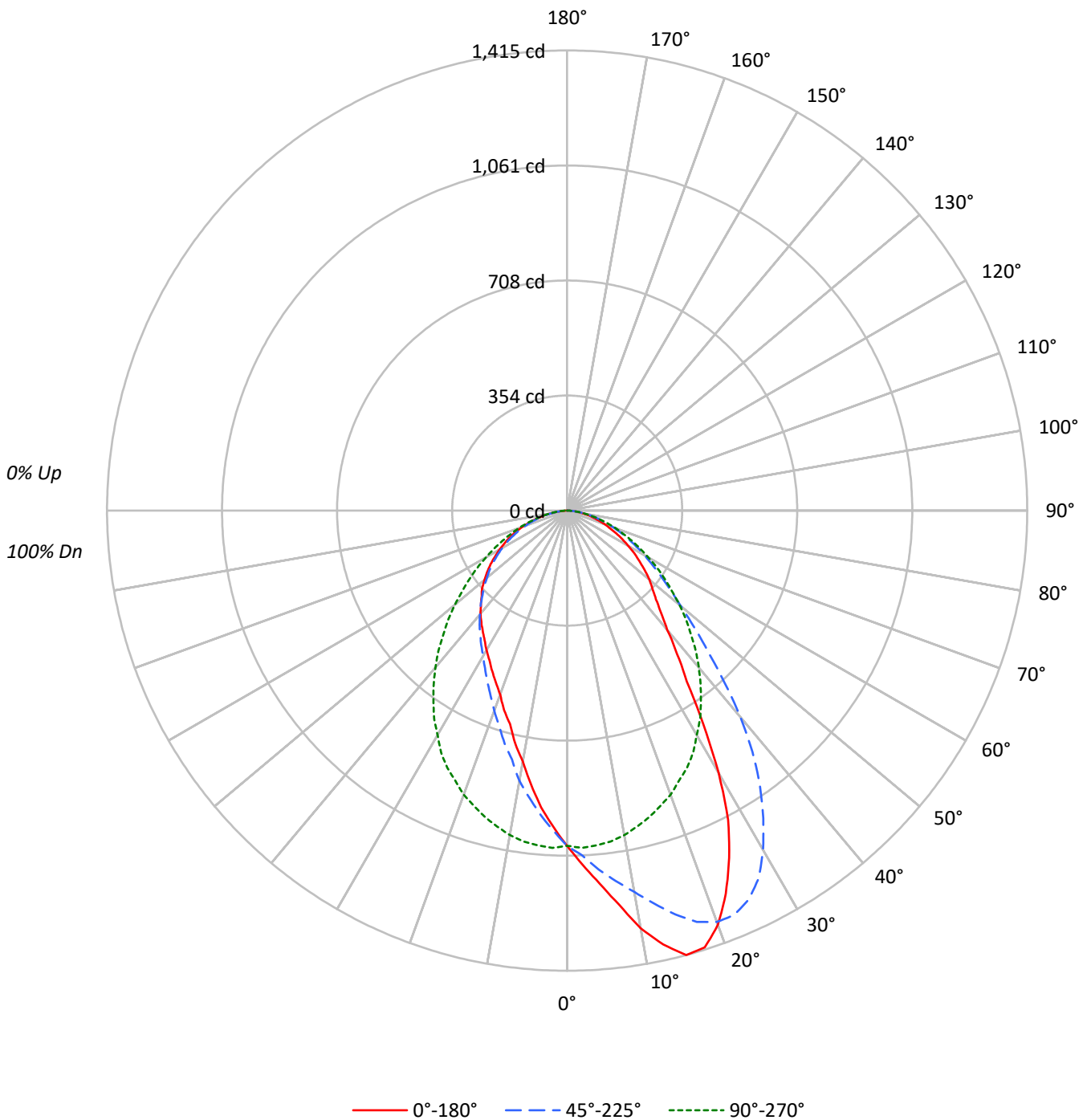
Lumens per Lamp: N/A
Luminaire Lumens: 2273.9 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.16 / 1.23
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

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	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	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76					74				
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66					64				
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	58					55				
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51					49				
6	74	61	53	47	72	60	52	46	58	51	46	57	51	46	55	50	45					43				
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41					39				
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37					35				
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34					32				
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31					29				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	19632	19632	19632	19632	19632
5°	22011	21185	19761	17950	17512
10°	25223	23032	19599	16328	15156
15°	27903	25350	19240	14632	13390
20°	27478	27286	18853	13281	12205
25°	24777	27740	18341	12196	11456
30°	20475	26494	17521	11354	10909
35°	14921	24041	16663	10834	10520
40°	11918	20616	15653	10381	10304
45°	10414	16486	14482	9924	10010
50°	9791	13453	13347	9545	9814
55°	9023	11696	12194	9195	9551
60°	8271	10411	10971	8785	9147
65°	7536	9411	9875	8248	8748
70°	6839	8404	8805	7613	8164
75°	6064	7433	7610	6822	7227
80°	5210	6296	6296	5605	5825
85°	4677	5114	4677	3890	3453

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 65°
 Vertical Angle: 45°
 Luminance: 25259 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.2	4.3
10°-20°	285.7	12.6
20°-30°	414.7	18.2
30°-40°	437.2	19.2
40°-50°	386.8	17.0
50°-60°	308.8	13.6
60°-70°	209.8	9.2
70°-80°	107.3	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°	798.6	35.1
0°-40°	1235.8	54.3
0°-60°	1931.4	84.9
0°-90°	2273.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2273.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1031	1031	1031	1031	1031	
5°	1151	1108	1034	939	916	115
15°	1415	1286	976	742	679	392
25°	1179	1320	873	580	545	535
35°	642	1034	717	466	452	415
45°	387	612	538	368	372	303
55°	272	352	367	277	288	244
65°	167	209	219	183	194	166
75°	82	101	103	93	98	88
85°	21	23	21	18	16	24
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°	1030.7	1030.7	1030.7	1030.7	1030.7	1030.7	1030.7	1030.7	1030.7	1030.7	1030.7
2.5°	1090.2	1090.6	1091.4	1085.0	1084.2	1084.2	1078.7	1073.9	1068.4	1060.9	1061.6
5°	1151.2	1155.5	1157.1	1152.4	1145.2	1144.4	1137.7	1126.6	1116.3	1108.0	1102.0
7.5°	1221.7	1223.3	1220.1	1214.6	1209.8	1200.7	1189.6	1178.9	1163.1	1148.8	1138.5
10°	1304.1	1306.5	1299.7	1290.6	1283.1	1272.0	1253.8	1235.2	1212.6	1190.8	1173.4
12.5°	1366.7	1373.4	1364.3	1365.1	1350.8	1334.6	1312.0	1304.9	1270.8	1238.3	1219.3
15°	1415.0	1414.6	1415.4	1407.9	1398.4	1396.0	1373.0	1348.0	1303.3	1285.5	1254.6
17.5°	1407.9	1413.4	1416.6	1414.2	1412.6	1409.1	1399.2	1380.5	1356.0	1325.9	1289.0
20°	1355.6	1363.5	1364.7	1373.8	1378.9	1385.7	1388.5	1384.1	1370.2	1346.1	1315.2
22.5°	1274.8	1275.6	1279.9	1295.4	1308.0	1327.5	1337.7	1357.2	1354.0	1345.3	1320.7
25°	1178.9	1174.9	1188.8	1195.9	1221.7	1248.6	1268.0	1289.4	1308.4	1319.9	1312.4
27.5°	1072.7	1064.4	1085.4	1104.0	1122.3	1148.4	1177.7	1212.6	1239.1	1275.2	1283.9
30°	930.9	934.5	954.3	974.5	1006.2	1047.4	1081.5	1120.7	1163.1	1204.6	1233.6
32.5°	778.0	794.3	804.9	838.6	865.6	912.7	966.6	1018.1	1073.5	1122.3	1171.0
35°	641.7	657.6	675.0	697.6	736.8	782.4	831.1	897.2	969.3	1033.9	1087.0
37.5°	555.4	552.6	563.3	579.9	613.6	652.8	710.7	778.0	864.4	936.1	1007.4
40°	479.3	477.7	484.9	499.9	524.1	551.0	600.1	657.6	736.4	829.1	918.2
42.5°	427.0	428.6	431.8	441.3	456.0	476.9	510.6	557.4	627.9	713.8	811.3
45°	386.6	389.4	393.8	398.9	408.4	426.6	447.2	482.1	539.1	612.0	706.3
47.5°	354.9	355.7	360.5	365.2	370.8	381.9	400.1	422.3	465.9	528.0	612.4
50°	330.4	327.6	330.8	334.3	340.3	347.4	358.5	379.1	406.0	454.0	521.7
52.5°	300.3	301.1	303.8	304.6	309.8	316.9	326.8	339.5	363.3	398.1	450.8
55°	271.7	273.7	275.3	277.7	282.4	287.6	295.5	305.0	324.0	352.2	393.4
57.5°	244.8	245.6	246.8	251.9	254.7	259.5	267.4	276.1	288.8	310.6	343.1
60°	217.1	217.1	220.3	222.2	226.2	230.9	236.9	245.2	256.3	273.3	298.3
62.5°	191.7	191.3	192.1	195.7	198.5	202.8	208.8	215.5	225.8	240.5	259.9
65°	167.2	166.4	168.8	169.5	172.7	177.1	181.8	189.4	197.7	208.8	227.0
67.5°	142.6	143.8	145.4	147.0	148.6	153.7	156.9	162.4	169.5	179.1	191.7
70°	122.8	122.8	122.8	124.0	126.4	128.7	131.9	136.3	143.0	150.9	162.0
72.5°	100.6	102.2	103.8	102.6	105.8	107.0	110.9	112.9	119.2	123.6	133.1
75°	82.4	82.4	82.4	84.4	85.6	86.8	89.1	91.5	94.7	101.0	106.2
77.5°	65.0	64.6	65.0	65.4	66.9	68.5	69.3	71.3	74.5	77.6	82.4
80°	47.5	48.3	48.7	49.5	49.5	50.3	50.7	53.5	55.5	57.4	60.2
82.5°	34.1	34.1	34.1	34.1	34.5	34.9	36.0	36.4	36.8	38.4	40.4
85°	21.4	21.0	21.0	21.8	21.4	21.4	22.2	23.0	23.0	23.4	24.6
87.5°	10.3	10.3	10.7	10.3	10.3	10.7	10.7	10.3	10.7	11.1	11.5
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°	1030.7	1030.7	1030.7	1030.7	1030.7	1030.7	1030.7	1030.7	1030.7	1030.7	1030.7
2.5°	1064.4	1061.2	1059.3	1052.1	1045.8	1039.5	1037.5	1038.3	1029.6	1021.2	1017.7
5°	1098.9	1091.0	1083.4	1072.7	1060.1	1046.2	1039.1	1033.5	1019.7	1004.6	995.9
7.5°	1130.2	1119.9	1106.4	1087.4	1070.0	1049.4	1036.7	1026.0	1006.6	986.4	974.1
10°	1158.3	1142.9	1124.2	1099.7	1077.1	1050.6	1031.9	1013.3	989.5	964.2	948.3
12.5°	1182.5	1160.3	1142.1	1108.8	1081.1	1046.2	1023.2	995.1	969.7	938.4	923.0
15°	1223.7	1185.2	1150.4	1114.7	1081.8	1035.5	1010.9	975.7	942.8	905.6	887.7
17.5°	1254.2	1212.6	1158.7	1115.5	1079.1	1029.6	994.3	952.3	915.1	873.9	850.1
20°	1279.5	1230.0	1171.0	1117.1	1071.2	1012.5	973.3	930.1	884.6	836.6	810.5
22.5°	1294.6	1241.9	1183.7	1111.2	1055.3	998.7	946.8	898.4	852.1	799.4	771.7
25°	1295.4	1247.8	1186.0	1108.4	1042.6	978.1	918.6	872.7	816.8	768.5	728.5
27.5°	1282.3	1244.7	1184.8	1102.8	1028.0	953.9	889.3	839.0	780.0	727.7	687.7
30°	1253.4	1233.6	1175.7	1093.3	1009.7	928.5	855.7	796.6	738.0	684.9	643.7
32.5°	1208.6	1208.2	1159.1	1079.9	990.3	896.5	820.4	760.6	694.0	642.1	603.3
35°	1147.2	1166.2	1134.1	1058.5	965.0	866.3	784.7	716.6	649.3	599.4	562.5
37.5°	1069.2	1113.1	1100.5	1030.0	932.5	834.3	745.5	674.2	609.7	558.2	522.1
40°	988.0	1048.2	1056.9	996.3	897.6	795.8	700.4	629.5	566.9	520.9	484.5
42.5°	900.8	973.7	1001.4	955.9	859.6	755.4	660.0	585.9	524.1	479.7	448.4
45°	801.4	894.5	937.7	909.9	816.4	710.3	612.0	537.6	481.3	439.3	414.4
47.5°	711.5	812.5	867.5	854.5	770.1	664.7	567.7	495.2	439.3	405.2	381.9
50°	614.8	719.4	789.5	792.7	719.4	615.2	517.7	450.4	400.1	368.8	350.6
52.5°	530.8	629.5	707.5	727.7	662.7	563.7	473.0	406.0	363.3	335.1	319.3
55°	459.9	544.3	629.1	660.0	606.5	511.4	426.2	367.2	325.6	305.8	291.6
57.5°	392.6	466.6	547.1	579.5	545.5	461.9	379.5	327.6	292.3	274.5	263.4
60°	341.5	396.9	466.6	507.4	478.9	406.4	336.7	288.0	260.3	244.8	234.5
62.5°	293.9	341.5	397.7	434.2	421.9	354.5	293.9	252.3	229.4	215.1	208.4
65°	250.4	289.2	334.7	369.2	358.9	307.0	255.9	219.1	200.0	188.6	182.6
67.5°	213.1	242.8	275.3	307.0	298.3	259.9	216.7	187.0	172.3	162.0	158.5
70°	178.3	199.7	227.8	251.9	245.2	215.1	182.6	158.1	145.8	137.5	133.9
72.5°	145.0	161.6	181.4	200.0	196.1	172.3	146.6	129.5	120.8	113.3	110.5
75°	114.5	128.0	141.0	154.1	152.9	133.5	117.7	103.4	95.9	89.9	88.7
77.5°	89.5	97.8	107.4	115.7	113.7	101.0	87.9	79.2	73.3	69.3	68.9
80°	64.6	68.9	75.3	80.8	78.0	73.3	63.4	57.4	53.5	49.5	47.9
82.5°	42.4	46.7	49.9	52.3	50.3	46.0	40.8	37.2	35.3	32.9	32.5
85°	24.6	26.9	28.5	29.3	28.5	25.7	23.0	21.4	19.4	18.2	17.8
87.5°	11.9	11.9	11.9	12.7	11.5	11.5	9.9	8.7	8.3	7.9	7.1
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°	1030.7	1030.7	1030.7	1030.7	1030.7	1030.7	1030.7	1030.7	1030.7	1030.7	1030.7
2.5°	1013.7	1011.3	1003.0	998.7	991.5	984.8	980.4	982.4	984.0	983.2	982.0
5°	988.0	980.4	968.9	959.0	951.9	938.8	933.3	930.5	928.1	925.4	922.6
7.5°	959.4	948.7	932.5	919.8	907.2	890.5	882.2	877.4	872.3	866.3	860.8
10°	928.5	911.9	894.5	874.7	858.8	844.2	831.1	822.4	814.5	806.9	801.4
12.5°	896.1	876.3	853.7	824.8	806.9	784.3	785.1	768.1	754.6	750.7	743.9
15°	861.2	834.3	806.9	774.8	761.0	742.0	730.1	718.2	707.5	700.0	698.0
17.5°	823.2	787.1	760.6	736.8	714.2	694.8	684.5	675.0	665.9	654.8	654.4
20°	778.4	748.3	718.6	698.4	675.0	655.2	641.7	632.2	624.7	618.8	613.6
22.5°	736.0	702.3	675.8	653.2	630.3	615.2	605.3	596.2	590.2	583.5	578.8
25°	690.1	664.3	634.6	609.7	590.6	580.3	571.6	563.7	559.7	555.4	549.8
27.5°	650.9	622.3	593.0	573.6	556.2	547.1	540.3	534.4	530.8	528.0	524.5
30°	608.9	579.9	558.2	539.1	525.3	516.2	512.2	509.0	504.7	503.1	501.5
32.5°	568.5	543.1	525.3	509.4	496.4	491.2	487.6	484.9	481.7	480.1	476.6
35°	530.8	509.0	490.8	481.7	471.0	465.9	463.1	459.1	456.0	454.4	454.0
37.5°	494.8	475.0	462.7	450.4	445.3	442.5	438.5	435.7	434.6	434.2	433.8
40°	459.9	444.5	433.8	424.3	422.3	417.5	414.4	412.0	412.0	412.4	412.0
42.5°	428.2	414.8	405.6	397.7	395.3	393.0	389.8	390.2	391.0	392.6	391.0
45°	396.1	386.2	379.5	375.5	371.2	368.4	368.0	369.2	369.6	370.0	371.2
47.5°	366.0	359.7	353.4	348.6	346.6	346.2	345.4	347.4	349.4	349.8	351.8
50°	339.9	332.4	327.2	324.4	322.9	322.1	322.9	325.2	326.8	328.8	330.0
52.5°	310.6	305.8	302.6	300.7	300.3	301.1	301.1	303.8	306.6	307.0	307.4
55°	284.0	280.1	279.3	275.7	277.3	276.9	278.9	280.5	282.8	285.2	285.6
57.5°	257.1	253.5	251.1	251.5	251.9	253.5	255.1	257.9	260.7	263.4	263.4
60°	230.2	228.6	227.4	227.4	228.2	230.6	232.5	235.3	236.9	238.5	239.7
62.5°	205.6	204.0	202.8	203.6	206.0	207.2	209.6	210.7	212.3	213.9	214.3
65°	179.4	178.7	179.8	180.6	181.0	183.0	185.8	187.0	188.6	189.4	192.1
67.5°	155.7	155.7	155.3	156.5	158.9	159.2	162.0	165.2	165.2	166.8	168.8
70°	131.5	132.3	133.1	133.9	135.9	136.7	138.6	139.8	141.4	142.6	143.8
72.5°	109.3	109.3	110.1	109.7	111.3	113.3	114.9	116.1	117.7	119.2	120.4
75°	87.5	87.5	88.3	88.7	90.7	92.7	92.3	93.1	94.7	96.3	97.1
77.5°	67.7	66.9	67.7	68.1	68.9	70.5	70.9	72.1	74.1	73.7	74.5
80°	48.7	47.5	48.7	49.1	49.1	51.1	51.1	51.9	53.1	51.9	53.1
82.5°	31.3	30.9	31.7	31.7	32.5	32.1	32.9	32.9	34.1	33.7	34.1
85°	17.4	17.0	17.4	17.0	17.4	17.8	17.8	17.4	17.4	18.2	17.0
87.5°	6.7	6.3	5.9	5.9	5.5	5.1	4.8	4.8	4.8	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: P242286

CATALOG NUMBER: S122DRP-S675D927-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1030.7	1030.7	1030.7	1030.7
2.5°	978.1	977.3	977.3	973.7
5°	917.1	915.9	913.9	915.9
7.5°	859.2	854.1	853.3	849.3
10°	794.6	791.5	791.1	783.6
12.5°	745.5	736.8	738.8	735.2
15°	687.3	687.3	685.7	679.0
17.5°	645.7	645.3	641.7	644.1
20°	609.3	606.9	602.1	602.1
22.5°	574.8	575.2	570.0	572.0
25°	549.4	546.3	543.9	545.1
27.5°	523.3	522.1	521.7	518.1
30°	501.1	497.2	497.9	496.0
32.5°	475.8	475.0	473.8	472.2
35°	453.2	453.6	451.6	452.4
37.5°	433.0	434.6	433.4	433.4
40°	413.2	413.2	413.2	414.4
42.5°	394.2	393.4	392.6	392.2
45°	372.0	373.2	373.6	371.6
47.5°	352.6	353.0	352.6	354.9
50°	332.0	331.2	332.0	331.2
52.5°	310.2	310.6	309.8	309.8
55°	287.2	288.0	287.6	287.6
57.5°	263.8	264.2	265.0	263.0
60°	239.3	241.2	240.9	240.1
62.5°	216.7	217.1	217.1	217.1
65°	193.3	194.1	192.9	194.1
67.5°	168.0	168.4	169.1	169.5
70°	144.6	144.2	145.4	146.6
72.5°	120.0	121.2	120.4	121.2
75°	96.3	97.4	97.1	98.2
77.5°	73.7	74.1	74.1	74.5
80°	53.1	52.3	51.5	53.1
82.5°	32.9	33.7	32.9	32.5
85°	17.0	16.6	15.8	15.8
87.5°	4.0	3.6	3.6	3.2
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242286

CATALOG NUMBER: S122DRP-S675D927-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	18.64	20.16	19.01	20.47	20.78	21.89	23.41	22.26	23.72	24.04
	3H	20.05	21.41	20.43	21.74	22.10	22.90	24.26	23.28	24.59	24.95
	4H	20.55	21.83	20.95	22.18	22.55	23.22	24.50	23.62	24.85	25.23
	6H	20.91	22.09	21.32	22.45	22.84	23.42	24.60	23.83	24.96	25.35
	8H	21.02	22.14	21.44	22.53	22.93	23.46	24.58	23.89	24.97	25.37
	12H	21.09	22.16	21.52	22.55	22.98	23.48	24.55	23.91	24.94	25.36
4H	2H	19.50	20.78	19.90	21.12	21.50	22.10	23.38	22.50	23.73	24.11
	3H	21.06	22.12	21.47	22.52	22.92	23.45	24.51	23.86	24.91	25.31
	4H	21.65	22.60	22.08	23.02	23.45	23.95	24.91	24.38	25.32	25.76
	6H	22.09	22.92	22.55	23.36	23.82	24.29	25.11	24.74	25.56	26.02
	8H	22.23	23.01	22.70	23.45	23.92	24.36	25.14	24.82	25.58	26.05
	12H	22.34	23.03	22.82	23.51	23.98	24.40	25.09	24.88	25.57	26.04
8H	4H	22.08	22.85	22.54	23.30	23.77	24.08	24.85	24.54	25.30	25.77
	6H	22.61	23.25	23.11	23.74	24.22	24.52	25.16	25.01	25.65	26.13
	8H	22.81	23.38	23.32	23.89	24.38	24.65	25.22	25.16	25.73	26.22
	12H	22.97	23.47	23.47	23.96	24.53	24.74	25.25	25.25	25.74	26.30
12H	4H	22.14	22.83	22.62	23.31	23.78	24.07	24.77	24.56	25.24	25.72
	6H	22.69	23.26	23.20	23.77	24.26	24.52	25.09	25.03	25.60	26.09
	8H	22.93	23.44	23.44	23.93	24.50	24.70	25.20	25.21	25.69	26.26