

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: P243146

Luminaire Tested: S122DRP-H675D927-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243146
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-H675D927-X4F0-XX-UDD-A-W
Description: DEFINE 2 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

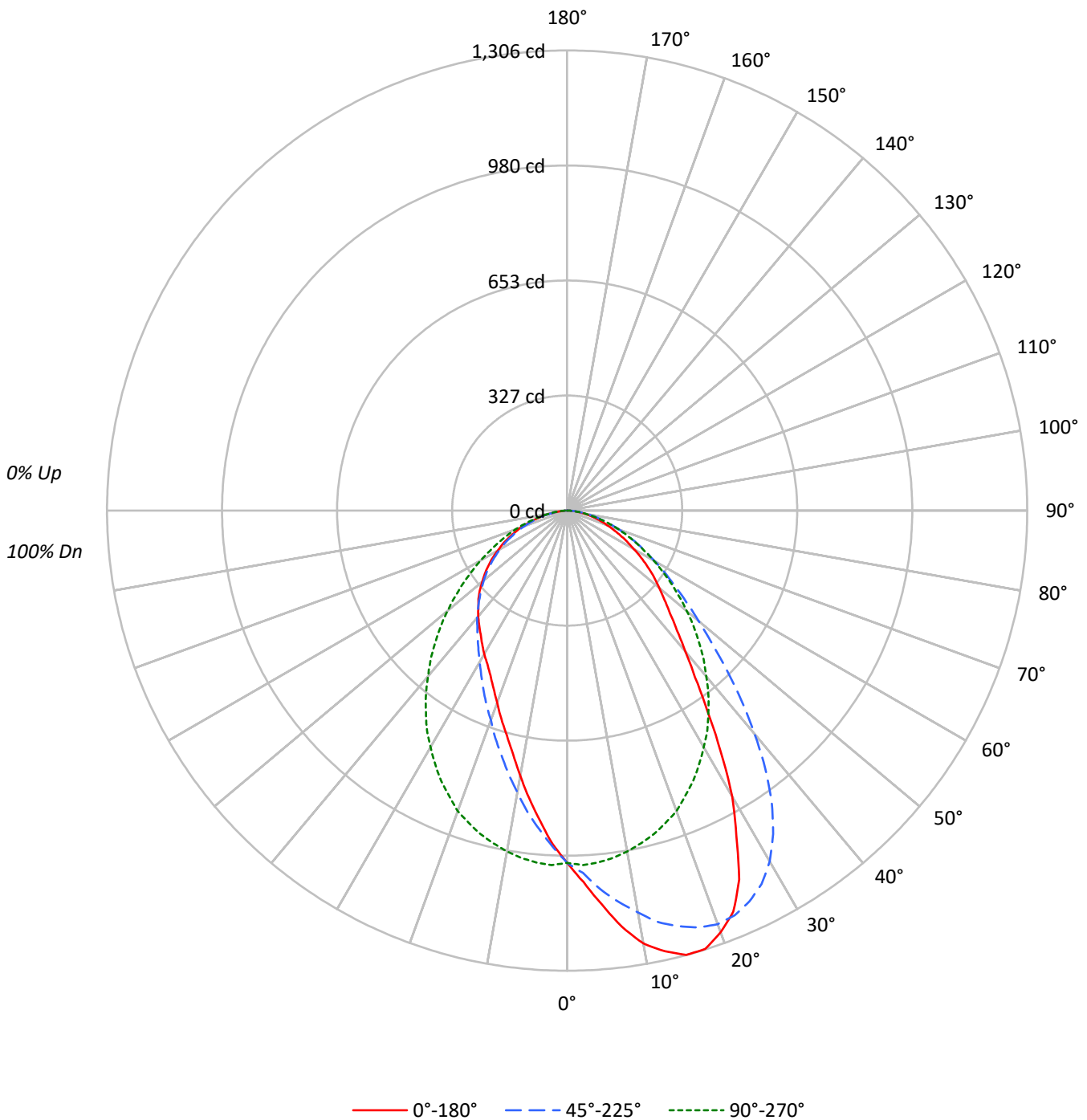
Lumens per Lamp: N/A
Luminaire Lumens: 2217.6 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.16 / 1.24
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

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°	19036	19036	19036	19036	19036
5°	21444	20621	19172	17361	16889
10°	24136	22399	19001	15717	14781
15°	25746	24076	18745	14186	13027
20°	25820	25319	18405	12829	11757
25°	24285	25722	17793	11816	10836
30°	20615	25285	17052	10900	10348
35°	16117	23548	16256	10294	9959
40°	12950	20591	15277	9876	9767
45°	11139	17256	14269	9466	9584
50°	10105	14390	13130	9151	9317
55°	9312	12370	11965	8794	9066
60°	8370	10907	10781	8385	8651
65°	7536	9753	9686	7851	8234
70°	6716	8649	8610	7190	7702
75°	6042	7543	7404	6373	6749
80°	5276	6252	5967	5188	5276
85°	4524	5180	4437	3475	2907

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 65°
 Vertical Angle: 45°
 Luminance: 23861 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	4.3
10°-20°	273.7	12.3
20°-30°	398.0	17.9
30°-40°	426.9	19.3
40°-50°	382.6	17.3
50°-60°	305.0	13.8
60°-70°	206.3	9.3
70°-80°	105.2	4.7
80°-90°	24.7	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°	766.9	34.6
0°-40°	1193.8	53.8
0°-60°	1881.4	84.8
0°-90°	2217.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2217.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	999	999	999	999	999	
5°	1122	1078	1003	908	883	111
15°	1306	1221	951	719	661	366
25°	1156	1224	847	562	516	520
35°	693	1013	699	443	428	439
45°	414	641	530	351	356	323
55°	280	372	360	265	273	250
65°	167	216	215	174	183	166
75°	82	102	101	87	92	88
85°	21	24	20	16	13	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°	999.4	999.4	999.4	999.4	999.4	999.4	999.4	999.4	999.4	999.4	999.4
2.5°	1054.9	1058.2	1055.2	1054.1	1051.9	1051.2	1045.3	1040.4	1037.5	1029.4	1030.1
5°	1121.5	1128.8	1124.8	1124.4	1116.3	1111.1	1105.9	1098.5	1087.4	1078.5	1071.5
7.5°	1191.7	1188.0	1186.9	1182.9	1176.9	1169.5	1158.1	1147.3	1133.3	1120.3	1110.7
10°	1247.9	1246.8	1248.7	1238.3	1234.6	1223.2	1213.2	1196.5	1178.4	1158.1	1145.5
12.5°	1281.2	1284.6	1287.2	1283.1	1274.2	1270.9	1254.2	1230.9	1224.6	1196.9	1181.7
15°	1305.6	1307.1	1307.5	1303.1	1298.6	1290.1	1280.1	1265.3	1245.0	1220.9	1209.5
17.5°	1304.2	1303.8	1306.0	1303.4	1300.8	1298.3	1290.5	1279.0	1263.1	1240.6	1221.3
20°	1273.8	1280.5	1285.7	1286.8	1286.4	1287.9	1284.2	1276.8	1265.3	1249.1	1227.2
22.5°	1232.4	1229.8	1240.9	1240.2	1245.0	1256.1	1260.9	1257.9	1253.5	1243.1	1225.8
25°	1155.5	1158.1	1165.8	1174.0	1192.8	1199.5	1213.9	1225.0	1226.5	1223.9	1213.2
27.5°	1040.1	1058.6	1062.6	1073.4	1099.6	1121.5	1150.7	1168.1	1192.8	1195.1	1190.2
30°	937.3	936.5	942.8	962.0	986.1	1019.0	1056.7	1101.5	1130.0	1149.6	1156.6
32.5°	810.8	813.7	830.0	853.7	878.1	911.0	954.6	1009.4	1047.5	1088.2	1111.1
35°	693.1	702.4	717.9	734.2	760.8	806.0	854.4	899.9	958.3	1012.7	1049.7
37.5°	596.2	608.8	620.6	636.2	662.1	696.8	740.5	800.8	858.8	924.3	978.7
40°	520.8	525.6	533.7	548.9	566.3	601.0	645.1	690.2	753.1	828.1	899.5
42.5°	461.6	460.5	469.4	479.0	494.9	520.8	559.2	604.4	666.9	733.5	805.6
45°	413.5	413.9	417.6	427.6	440.1	454.9	484.5	527.1	574.4	640.6	717.2
47.5°	374.3	375.4	381.0	388.0	395.4	409.1	428.7	456.4	500.8	556.3	628.0
50°	341.0	342.9	346.6	351.7	357.3	366.9	381.7	403.5	438.7	485.6	550.7
52.5°	311.4	312.2	313.3	318.1	322.5	331.4	342.5	359.5	387.3	426.5	477.1
55°	280.4	279.6	282.2	286.3	290.3	296.6	308.1	321.8	341.4	372.5	414.3
57.5°	248.6	249.7	251.5	253.7	261.1	267.8	276.3	288.9	304.4	328.8	363.6
60°	219.7	219.7	221.9	224.9	229.7	234.1	242.3	253.7	267.4	286.3	315.5
62.5°	191.6	193.1	195.3	196.8	201.2	206.8	213.0	221.9	234.5	249.7	271.5
65°	167.2	166.4	168.7	171.6	174.9	178.6	185.7	193.1	202.7	216.4	234.5
67.5°	142.0	144.3	145.0	146.5	149.1	153.9	157.2	165.0	172.7	184.9	200.1
70°	120.6	122.1	123.2	125.0	127.2	129.5	132.8	139.1	146.8	155.3	166.1
72.5°	101.3	102.5	101.3	103.2	104.3	106.5	111.0	113.9	119.8	127.2	136.9
75°	82.1	82.9	82.5	84.3	84.7	86.9	89.1	91.7	98.4	102.5	109.1
77.5°	64.4	65.1	65.5	66.2	66.9	68.1	69.2	71.8	75.5	79.2	84.3
80°	48.1	48.1	49.2	49.6	49.9	50.7	52.5	53.3	55.9	57.0	61.0
82.5°	33.3	33.7	34.0	34.0	34.4	35.1	35.5	37.0	37.7	39.6	41.4
85°	20.7	21.1	21.1	21.1	22.2	21.8	21.8	22.6	23.7	23.7	24.4
87.5°	10.4	10.7	10.7	10.7	11.1	11.1	11.1	11.1	11.1	11.8	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°	999.4	999.4	999.4	999.4	999.4	999.4	999.4	999.4	999.4	999.4	999.4
2.5°	1029.7	1029.4	1027.9	1021.2	1016.0	1009.4	1008.3	1007.2	997.9	987.9	985.0
5°	1066.0	1059.3	1050.1	1039.0	1027.9	1015.7	1008.6	1002.7	988.7	973.1	964.3
7.5°	1101.5	1088.5	1074.1	1056.7	1038.2	1018.6	1006.1	994.2	975.0	954.6	942.4
10°	1131.8	1114.4	1094.5	1071.5	1046.0	1019.4	1000.9	982.4	958.0	933.2	916.9
12.5°	1157.0	1134.8	1108.5	1077.4	1054.1	1017.5	991.6	967.2	940.2	908.0	890.3
15°	1176.2	1154.4	1118.9	1087.4	1056.7	1007.9	976.5	950.6	914.3	882.9	854.8
17.5°	1199.5	1168.4	1133.3	1088.2	1054.1	998.3	962.8	929.1	889.9	852.9	821.9
20°	1209.9	1177.3	1139.6	1089.3	1046.0	987.9	940.6	908.0	860.7	818.2	783.0
22.5°	1211.3	1180.3	1139.2	1085.9	1031.9	972.8	918.4	875.9	828.5	783.4	743.8
25°	1205.0	1175.5	1132.9	1080.0	1016.4	956.5	895.8	846.6	791.9	745.3	705.0
27.5°	1188.0	1164.0	1123.7	1067.1	1000.5	931.3	865.1	811.5	757.5	704.6	666.1
30°	1160.7	1144.8	1110.0	1050.1	980.2	904.0	837.8	775.3	716.8	667.2	625.8
32.5°	1125.5	1117.8	1088.9	1029.7	959.4	874.0	804.8	740.5	676.9	629.9	587.4
35°	1080.8	1084.8	1060.4	1006.8	933.2	843.7	766.4	699.1	636.9	587.0	547.8
37.5°	1022.7	1042.7	1027.1	976.8	899.5	813.0	726.1	658.4	593.3	545.2	510.8
40°	957.6	992.7	985.3	943.2	863.3	777.1	687.2	614.4	550.7	505.2	472.3
42.5°	881.0	932.1	940.2	902.1	827.4	732.3	643.6	573.3	511.9	467.1	435.7
45°	795.2	858.5	885.8	855.9	785.6	689.1	598.8	529.7	469.0	430.9	404.6
47.5°	709.0	785.2	822.2	807.8	736.8	642.8	554.4	486.8	429.4	396.1	371.4
50°	624.0	705.7	759.7	750.1	688.7	598.8	509.7	443.1	390.6	359.9	338.8
52.5°	549.3	626.6	685.4	690.2	635.1	548.5	462.3	400.6	355.8	328.1	310.3
55°	475.7	547.4	611.8	623.6	578.8	495.6	418.7	360.3	319.6	296.6	282.2
57.5°	409.8	474.9	538.9	559.6	523.4	448.3	371.7	320.3	285.2	267.4	254.8
60°	354.0	412.8	467.9	489.0	464.2	395.8	328.8	283.0	253.7	237.8	227.8
62.5°	305.1	350.6	399.5	422.8	406.1	346.6	288.1	247.4	223.8	210.1	202.3
65°	261.1	296.3	334.7	361.7	343.2	298.9	250.0	214.9	194.9	182.3	176.8
67.5°	220.4	249.7	280.4	301.8	292.6	252.3	211.2	183.8	167.2	157.6	152.4
70°	183.5	205.3	230.1	246.7	240.0	209.0	176.4	154.6	140.6	133.9	129.5
72.5°	150.5	164.6	183.5	197.1	190.1	168.3	145.0	127.6	117.2	109.5	106.2
75°	119.5	131.7	145.0	154.2	148.7	132.4	113.9	100.6	93.6	88.8	86.6
77.5°	90.6	100.2	109.5	113.9	111.3	99.5	86.9	76.6	70.6	67.7	65.1
80°	65.1	70.6	76.9	81.0	79.5	71.4	62.5	54.4	51.8	48.1	47.3
82.5°	43.6	48.1	49.6	51.4	50.3	46.6	40.3	35.5	33.3	31.4	31.1
85°	25.9	27.0	28.9	28.9	27.7	25.2	21.8	20.3	18.1	17.8	16.6
87.5°	11.5	11.5	11.5	11.5	11.5	10.7	9.2	8.5	7.8	7.4	7.0
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°	999.4	999.4	999.4	999.4	999.4	999.4	999.4	999.4	999.4	999.4	999.4
2.5°	982.4	978.7	973.5	967.6	962.4	954.3	951.7	951.7	953.5	951.3	949.5
5°	956.9	949.5	942.1	930.6	921.0	908.0	904.3	900.6	900.3	896.6	891.8
7.5°	929.5	918.4	903.2	887.0	876.6	862.5	854.8	852.6	845.5	838.9	831.1
10°	897.7	880.7	862.5	847.0	830.7	812.6	803.4	797.1	790.0	781.9	776.4
12.5°	859.2	840.0	823.3	805.2	791.5	766.0	763.0	754.9	740.9	728.6	724.2
15°	835.5	801.9	783.0	766.4	745.7	719.4	709.8	700.9	687.6	679.8	673.5
17.5°	793.7	763.4	739.7	717.6	697.6	677.2	662.8	655.4	644.7	638.0	631.7
20°	755.6	722.7	697.9	672.1	651.3	632.9	620.6	611.4	605.9	599.2	592.9
22.5°	717.2	682.8	659.1	632.9	608.4	597.3	582.9	575.2	567.8	562.6	555.9
25°	672.4	645.1	615.5	595.1	573.7	562.2	548.5	541.1	535.2	529.3	526.0
27.5°	632.5	604.7	577.4	557.0	538.9	527.8	519.3	512.3	504.9	500.4	497.8
30°	591.1	565.5	541.5	521.9	507.8	495.6	490.5	483.8	478.2	476.4	472.3
32.5°	554.1	525.6	506.4	488.6	476.8	468.3	464.6	457.5	456.4	454.6	452.4
35°	517.1	492.7	474.2	459.0	449.0	442.7	437.9	436.1	434.2	432.4	430.5
37.5°	480.5	461.2	443.8	431.6	423.5	418.7	417.6	413.9	413.5	410.9	410.9
40°	447.5	427.9	415.7	406.1	399.5	397.2	394.3	393.5	392.4	391.7	393.2
42.5°	414.6	401.3	391.0	381.0	375.8	373.9	373.2	372.1	371.4	373.6	374.3
45°	383.9	372.5	363.6	356.6	353.6	351.4	351.4	352.5	352.1	353.2	353.2
47.5°	355.4	345.1	337.7	335.1	331.4	330.7	331.0	330.7	332.5	334.0	335.5
50°	328.4	319.2	313.3	310.7	310.0	308.8	310.3	311.1	312.2	313.7	314.4
52.5°	298.5	294.0	290.3	287.8	287.4	287.8	287.4	290.0	291.1	293.3	292.9
55°	273.0	269.6	267.0	264.1	263.7	264.8	265.6	267.8	269.3	271.1	270.7
57.5°	248.9	246.3	243.4	242.6	242.3	242.6	246.0	245.6	247.8	249.3	250.0
60°	222.7	220.8	218.2	218.2	219.3	220.1	221.2	223.0	225.3	224.9	227.5
62.5°	198.6	196.4	195.7	196.8	196.4	198.3	199.4	199.4	202.3	203.4	204.2
65°	174.6	173.8	172.7	172.7	173.8	174.2	176.1	177.2	178.3	180.5	182.3
67.5°	152.0	150.2	150.2	149.4	150.9	152.0	153.1	154.6	155.3	157.9	159.0
70°	128.3	127.6	127.2	128.0	128.0	129.1	130.9	132.8	134.3	134.6	136.9
72.5°	105.4	105.4	105.4	106.5	107.3	108.4	108.7	110.2	112.4	112.8	113.9
75°	84.7	85.1	84.7	85.1	85.4	86.6	87.3	88.8	90.2	90.6	91.4
77.5°	65.5	64.7	64.0	65.1	65.8	68.1	67.7	68.4	69.9	69.2	69.9
80°	45.9	47.0	45.5	47.7	47.7	47.3	48.1	49.2	48.8	49.6	48.8
82.5°	31.1	30.0	30.0	31.1	31.4	30.3	31.1	31.4	31.8	31.1	30.7
85°	17.0	16.6	17.4	16.3	16.6	15.9	15.9	15.2	15.9	15.2	14.4
87.5°	6.3	5.9	6.3	5.2	4.8	4.4	4.1	4.1	3.3	3.3	3.3
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: P243146

CATALOG NUMBER: S122DRP-H675D927-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	999.4	999.4	999.4	999.4
2.5°	952.1	948.0	946.1	947.6
5°	886.6	887.7	881.0	883.3
7.5°	830.0	825.2	826.7	824.1
10°	770.1	767.5	763.4	764.2
12.5°	729.8	712.4	711.3	707.9
15°	673.2	663.6	661.3	660.6
17.5°	628.0	619.9	622.9	620.6
20°	587.4	587.7	582.9	580.0
22.5°	551.5	550.7	548.9	545.9
25°	521.1	521.1	516.7	515.6
27.5°	493.4	494.1	490.5	490.5
30°	472.7	470.1	469.7	470.5
32.5°	452.0	449.0	449.4	449.0
35°	429.8	430.5	429.4	428.3
37.5°	410.9	410.9	410.9	409.8
40°	392.4	393.2	392.1	392.8
42.5°	373.9	374.3	374.3	372.8
45°	355.4	355.1	354.3	355.8
47.5°	336.2	336.2	335.8	336.6
50°	315.1	315.9	314.8	314.4
52.5°	293.7	294.0	293.7	294.4
55°	271.9	271.9	272.2	273.0
57.5°	249.3	251.9	250.0	251.5
60°	227.1	227.5	227.8	227.1
62.5°	206.0	205.6	206.0	207.1
65°	183.1	183.8	183.5	182.7
67.5°	160.5	159.8	160.9	159.8
70°	136.5	138.0	136.9	138.3
72.5°	114.7	114.3	115.0	113.2
75°	91.7	91.7	92.1	91.7
77.5°	70.3	69.5	69.2	68.1
80°	48.5	48.5	47.0	48.1
82.5°	29.6	30.0	30.3	28.1
85°	14.1	14.1	13.7	13.3
87.5°	3.0	3.0	3.3	3.7
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P243146
 CATALOG NUMBER: S122DRP-H675D927-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	18.88	20.41	19.25	20.72	21.04	21.72	23.24	22.09	23.56	23.87
	3H	20.24	21.60	20.61	21.93	22.29	22.74	24.11	23.12	24.44	24.80
	4H	20.72	22.00	21.12	22.35	22.73	23.07	24.35	23.47	24.70	25.08
	6H	21.07	22.26	21.48	22.62	23.01	23.26	24.45	23.68	24.82	25.21
	8H	21.18	22.31	21.60	22.70	23.10	23.31	24.44	23.73	24.82	25.23
	12H	21.25	22.33	21.68	22.71	23.14	23.32	24.40	23.75	24.78	25.21
4H	2H	19.77	21.05	20.17	21.40	21.77	21.96	23.25	22.36	23.59	23.97
	3H	21.26	22.33	21.67	22.73	23.13	23.33	24.40	23.74	24.80	25.20
	4H	21.83	22.79	22.26	23.21	23.64	23.85	24.81	24.28	25.22	25.66
	6H	22.27	23.10	22.73	23.54	24.00	24.18	25.01	24.64	25.46	25.92
	8H	22.40	23.18	22.87	23.63	24.09	24.25	25.03	24.72	25.48	25.94
	12H	22.50	23.20	22.98	23.68	24.15	24.29	24.99	24.78	25.47	25.94
8H	4H	22.27	23.05	22.73	23.49	23.96	23.98	24.76	24.45	25.21	25.67
	6H	22.79	23.43	23.29	23.93	24.40	24.43	25.07	24.92	25.56	26.04
	8H	22.98	23.55	23.49	24.06	24.55	24.56	25.14	25.08	25.65	26.14
	12H	23.13	23.64	23.64	24.13	24.70	24.65	25.16	25.16	25.65	26.22
12H	4H	22.32	23.02	22.81	23.50	23.97	23.98	24.67	24.46	25.15	25.62
	6H	22.87	23.45	23.38	23.96	24.44	24.43	25.01	24.94	25.52	26.00
	8H	23.11	23.62	23.62	24.11	24.67	24.61	25.12	25.12	25.61	26.17