

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P246147

Luminaire Tested: **LD8B30D010 ER8B30935 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246147
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B30D010 ER8B30935 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 3500 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2367.0 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

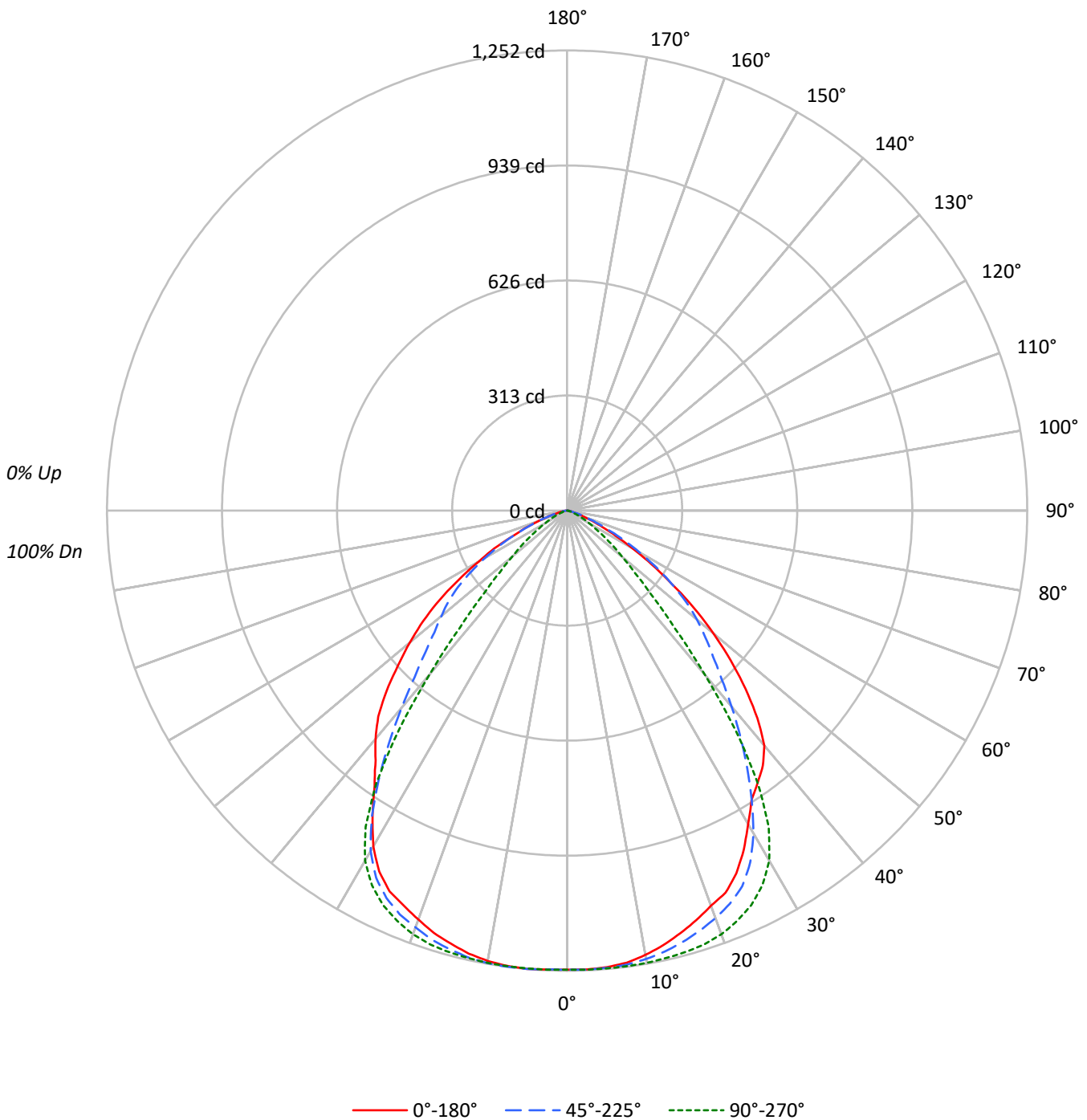
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90					90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50					50			
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45					45			
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41					41			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	38511	38511	38511
5°	38597	38699	38742
10°	38432	39124	38958
15°	38006	39698	38951
20°	37551	40255	38850
25°	37062	40302	38890
30°	35065	39171	37569
35°	34019	34042	34395
40°	33596	23424	32650
45°	29933	14060	30343
50°	24893	9359	26822
55°	18666	6451	22741
60°	12649	4299	17157
65°	7632	2787	11784
70°	4228	1515	7249
75°	1918	643	3753
80°	1669	710	2610
85°	1911	955	2618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.2	5.0
10°-20°	346.1	14.6
20°-30°	525.4	22.2
30°-40°	551.8	23.3
40°-50°	413.7	17.5
50°-60°	265.4	11.2
60°-70°	113.5	4.8
70°-80°	26.8	1.1
80°-90°	5.0	0.2
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°	990.7	41.9
0°-40°	1542.5	65.2
0°-60°	2221.6	93.9
0°-90°	2367.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2367.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1249	1249	1249	1249	1249	
5°	1247	1249	1250	1252	1252	118
15°	1190	1215	1244	1236	1220	336
25°	1089	1128	1184	1163	1143	498
35°	904	853	904	894	914	567
45°	686	561	322	545	696	526
55°	347	347	120	362	423	315
65°	105	123	38	159	162	112
75°	16	19	5	32	32	23
85°	5	3	3	5	7	6
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°	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9
2.5°	1249.5	1250.9	1250.2	1250.2	1249.5	1250.2	1250.2	1251.6	1251.6	1250.2	1249.5
5°	1246.9	1248.2	1248.2	1246.9	1246.9	1250.2	1248.2	1249.5	1249.5	1248.9	1248.9
7.5°	1240.8	1240.8	1243.5	1241.5	1241.5	1243.5	1242.8	1244.2	1245.5	1246.2	1246.2
10°	1227.4	1228.8	1229.4	1229.4	1230.1	1232.1	1233.5	1236.1	1237.5	1238.8	1239.5
12.5°	1210.7	1212.7	1213.3	1212.7	1214.7	1217.4	1220.7	1224.1	1226.1	1228.8	1230.8
15°	1190.5	1190.5	1191.9	1193.9	1195.3	1199.3	1202.6	1206.6	1212.0	1215.4	1218.7
17.5°	1168.4	1169.8	1171.8	1171.8	1174.5	1181.2	1183.2	1189.2	1195.3	1198.6	1205.3
20°	1144.3	1145.6	1147.7	1149.0	1152.3	1157.7	1161.7	1167.1	1173.8	1179.8	1186.5
22.5°	1125.5	1122.9	1124.2	1125.5	1128.9	1133.6	1138.3	1145.0	1151.7	1157.7	1164.4
25°	1089.3	1090.0	1092.0	1093.3	1097.4	1101.4	1106.8	1114.8	1120.8	1127.5	1134.9
27.5°	1040.4	1041.1	1044.4	1044.4	1047.8	1054.5	1057.8	1064.5	1072.6	1079.3	1088.0
30°	984.8	986.1	986.1	988.8	990.8	994.1	997.5	1004.2	1008.2	1014.3	1026.3
32.5°	933.8	935.1	934.5	933.8	931.8	931.1	930.5	931.8	933.1	935.1	939.8
35°	903.7	900.3	897.6	892.9	887.6	880.9	874.8	866.8	859.4	853.4	846.7
37.5°	874.8	874.1	870.1	863.4	852.7	840.6	826.6	809.1	791.7	772.9	754.8
40°	834.6	832.6	829.2	819.8	807.8	793.0	774.3	752.8	724.6	695.8	666.3
42.5°	766.2	766.9	762.9	755.5	744.1	730.0	710.6	687.1	657.0	622.8	584.6
45°	686.4	686.4	685.1	679.1	671.0	659.6	644.9	625.4	596.0	561.1	520.2
47.5°	603.3	604.0	602.0	600.6	597.3	589.9	579.2	564.4	543.7	510.1	469.2
50°	518.9	518.9	522.2	521.5	521.5	518.9	514.2	505.4	487.4	460.5	422.3
52.5°	434.4	435.7	437.8	440.4	443.8	449.1	443.8	439.8	428.4	407.6	374.7
55°	347.2	348.6	351.9	356.6	360.7	366.0	367.4	367.4	361.3	347.2	322.4
57.5°	272.8	270.8	273.5	277.5	282.9	288.3	292.3	297.0	296.3	286.9	266.8
60°	205.1	205.8	207.8	211.8	215.9	220.5	225.9	229.9	231.9	227.3	214.5
62.5°	149.5	149.5	152.2	156.2	158.2	164.9	168.3	170.3	172.3	171.6	163.6
65°	104.6	105.9	107.3	109.3	111.3	115.3	117.3	121.3	122.7	123.3	117.3
67.5°	73.7	71.7	73.1	74.4	76.4	79.1	83.1	83.1	85.1	85.1	81.1
70°	46.9	46.9	47.6	49.6	50.9	51.6	53.0	54.3	56.3	55.6	55.6
72.5°	31.5	30.8	31.5	32.2	32.9	34.9	34.9	35.5	36.9	37.5	34.9
75°	16.1	16.8	18.1	17.4	19.4	18.1	18.8	20.8	20.1	18.8	18.8
77.5°	13.4	13.4	13.4	12.7	14.1	14.1	13.4	14.7	14.1	14.1	13.4
80°	9.4	10.1	9.4	8.7	9.4	8.7	8.7	8.7	8.7	8.7	8.0
82.5°	7.4	6.0	6.7	6.0	6.7	6.7	6.0	5.4	5.4	6.0	5.4
85°	5.4	4.0	4.7	4.7	4.0	4.0	4.0	4.0	4.0	3.3	3.3
87.5°	3.3	2.0	2.0	2.0	2.7	2.7	2.7	2.0	2.7	2.7	1.3
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°	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9
2.5°	1250.9	1250.2	1251.6	1250.9	1250.9	1250.2	1250.9	1250.2	1251.6	1248.9	1249.5
5°	1250.9	1249.5	1250.2	1250.9	1251.6	1250.2	1250.2	1250.2	1251.6	1250.2	1250.9
7.5°	1248.2	1247.5	1249.5	1250.9	1250.2	1249.5	1250.9	1250.2	1251.6	1250.9	1252.2
10°	1242.8	1243.5	1244.9	1246.9	1247.5	1248.2	1249.5	1249.5	1251.6	1248.9	1250.2
12.5°	1234.8	1237.5	1240.8	1242.2	1244.9	1244.9	1246.2	1246.9	1248.2	1247.5	1249.5
15°	1224.7	1228.1	1232.1	1235.5	1238.8	1240.8	1242.8	1243.5	1245.5	1243.5	1244.2
17.5°	1212.7	1216.7	1222.7	1226.7	1232.1	1234.1	1236.8	1238.1	1240.2	1238.8	1239.5
20°	1195.9	1200.6	1207.3	1213.3	1216.7	1221.4	1224.7	1226.7	1228.1	1226.7	1227.4
22.5°	1172.5	1179.2	1187.9	1192.6	1199.3	1203.3	1204.0	1208.7	1212.0	1208.7	1210.0
25°	1145.0	1151.7	1158.4	1168.4	1174.5	1179.2	1183.9	1184.5	1187.9	1187.2	1186.5
27.5°	1099.4	1108.1	1119.5	1127.5	1135.6	1143.0	1148.3	1149.7	1153.0	1151.7	1152.3
30°	1037.0	1046.4	1057.2	1069.9	1081.3	1088.7	1095.4	1100.1	1103.4	1101.4	1100.7
32.5°	948.6	957.9	969.3	982.1	995.5	1006.2	1014.3	1020.3	1024.3	1023.0	1019.6
35°	847.3	850.0	857.4	867.4	878.8	890.2	897.6	904.3	909.0	910.3	910.3
37.5°	743.4	734.7	729.4	729.4	736.0	740.7	747.4	751.5	758.8	761.5	763.5
40°	642.9	622.8	604.0	589.9	580.5	579.9	579.9	581.9	588.6	597.3	605.3
42.5°	553.0	520.9	492.0	465.9	447.1	436.4	431.7	432.4	437.8	445.8	459.2
45°	481.3	441.1	404.9	373.4	347.9	331.2	323.1	322.4	326.5	335.8	350.6
47.5°	425.7	382.8	341.9	305.7	278.2	260.1	250.7	248.0	250.7	259.4	276.9
50°	379.4	335.2	292.9	255.4	225.9	207.1	198.4	195.1	198.4	205.8	223.2
52.5°	336.5	290.9	251.4	215.2	183.7	167.6	158.2	156.2	158.2	166.9	181.0
55°	286.9	248.0	209.1	172.9	145.5	129.4	122.0	120.0	122.0	130.1	144.8
57.5°	238.0	204.5	170.3	137.4	114.0	99.9	93.2	90.5	95.2	100.5	118.0
60°	192.4	165.6	136.7	107.9	88.5	75.7	70.4	69.7	71.1	77.8	89.8
62.5°	150.8	128.7	105.9	82.5	66.4	61.0	54.3	53.6	55.0	59.0	68.4
65°	108.6	94.5	77.1	60.3	47.6	40.2	37.5	38.2	39.5	42.2	50.9
67.5°	75.7	65.7	53.6	42.2	32.9	29.5	26.8	26.1	26.8	31.5	36.2
70°	50.9	44.9	36.2	32.2	22.8	18.1	18.8	16.8	19.4	19.4	23.5
72.5°	33.5	29.5	24.1	18.8	16.1	12.7	12.7	12.1	13.4	14.1	17.4
75°	17.4	13.4	13.4	9.4	6.7	3.3	6.0	5.4	4.7	5.4	6.7
77.5°	12.1	10.1	9.4	7.4	6.7	5.4	5.4	5.4	5.4	6.0	6.7
80°	7.4	7.4	5.4	4.7	4.0	3.3	4.0	4.0	4.0	4.0	4.7
82.5°	4.7	4.0	4.0	3.3	3.3	2.7	2.7	2.7	2.7	2.7	4.0
85°	4.0	2.7	2.7	2.0	2.7	4.7	2.0	2.7	2.7	2.7	2.0
87.5°	1.3	2.0	2.0	2.0	1.3	0.7	1.3	2.0	2.0	3.3	2.7
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°	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9
2.5°	1250.9	1251.6	1251.6	1250.9	1250.9	1249.5	1252.2	1250.2	1250.9	1253.6	1251.6
5°	1252.2	1252.9	1252.9	1252.2	1252.2	1252.2	1252.9	1252.9	1252.2	1251.6	1252.9
7.5°	1254.9	1254.2	1254.2	1252.9	1252.9	1251.6	1252.9	1250.9	1252.2	1250.9	1252.9
10°	1251.6	1252.2	1251.6	1250.9	1250.9	1250.2	1250.2	1248.2	1248.9	1246.9	1248.2
12.5°	1249.5	1248.9	1248.9	1247.5	1246.2	1244.9	1244.2	1242.2	1242.2	1237.5	1239.5
15°	1244.2	1244.9	1242.8	1240.2	1238.8	1235.5	1234.1	1231.4	1228.8	1225.4	1226.1
17.5°	1239.5	1237.5	1234.8	1232.1	1226.7	1224.1	1221.4	1217.4	1216.0	1212.0	1210.7
20°	1225.4	1224.1	1220.7	1216.0	1212.7	1206.6	1204.0	1199.9	1196.6	1192.6	1190.5
22.5°	1207.3	1206.0	1201.9	1197.3	1191.9	1189.2	1186.5	1179.2	1175.8	1171.8	1171.1
25°	1184.5	1182.5	1178.5	1173.1	1170.4	1163.1	1160.4	1155.0	1153.7	1149.7	1149.0
27.5°	1149.7	1147.0	1142.3	1135.6	1130.9	1126.2	1123.5	1119.5	1118.2	1114.1	1113.5
30°	1097.4	1094.0	1084.6	1082.0	1073.9	1069.2	1069.2	1063.9	1064.5	1061.9	1061.9
32.5°	1014.9	1009.6	1002.2	996.8	991.5	988.8	988.8	986.8	988.1	988.1	989.5
35°	905.7	898.3	894.3	890.9	890.9	893.6	901.6	903.7	907.7	911.0	913.7
37.5°	765.5	764.9	769.6	773.6	783.6	795.0	809.1	821.2	832.6	840.6	848.7
40°	614.0	630.8	644.2	663.0	678.4	700.5	726.0	746.8	766.2	780.3	795.0
42.5°	479.3	500.8	528.9	556.4	583.9	614.0	647.6	676.4	701.9	721.3	736.7
45°	373.4	402.9	437.1	471.9	507.5	545.0	579.9	609.4	636.2	656.3	671.7
47.5°	301.0	333.2	372.0	410.3	450.5	490.0	528.9	554.4	576.5	592.6	606.7
50°	248.7	282.9	323.8	367.4	407.6	447.1	480.6	505.4	523.6	537.6	546.3
52.5°	207.8	244.0	287.6	331.2	371.4	407.6	437.8	456.5	471.3	481.3	489.4
55°	171.6	206.5	247.4	288.3	327.8	362.0	386.8	400.9	412.3	418.3	423.0
57.5°	140.1	172.3	209.8	247.4	281.6	309.7	329.2	343.2	348.6	353.3	352.6
60°	109.9	140.1	174.3	206.5	236.0	258.8	272.8	280.9	284.9	286.9	285.6
62.5°	86.5	114.0	140.1	168.3	189.7	209.1	222.6	222.6	224.6	225.2	227.3
65°	64.3	85.1	107.9	128.7	146.1	158.9	166.3	168.3	170.9	170.3	168.9
67.5°	47.6	63.0	79.8	95.2	107.3	115.3	120.7	125.4	124.7	123.3	122.7
70°	32.9	42.9	57.7	67.0	75.7	83.8	85.1	85.8	86.5	87.1	85.8
72.5°	22.8	30.2	38.2	46.3	51.6	55.0	58.3	59.0	59.0	59.0	58.3
75°	11.4	15.4	22.8	26.1	30.8	32.2	34.9	34.9	36.9	34.2	33.5
77.5°	10.1	12.1	16.1	18.8	20.8	22.8	23.5	25.5	24.8	23.5	24.1
80°	6.0	7.4	10.1	11.4	14.1	14.7	15.4	16.1	15.4	16.1	16.1
82.5°	4.7	5.4	6.7	6.7	8.7	8.7	9.4	9.4	10.1	10.1	10.1
85°	2.7	4.7	4.0	8.0	5.4	5.4	6.7	8.0	6.7	6.7	8.0
87.5°	2.7	2.7	2.0	2.7	2.7	2.7	3.3	4.0	4.0	4.7	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: P246147

CATALOG NUMBER: LD8B30D010 ER8B30935 8LBDW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1248.9	1248.9	1248.9	1248.9
2.5°	1250.9	1252.2	1250.2	1249.5
5°	1252.9	1252.9	1251.6	1251.6
7.5°	1252.9	1252.9	1250.9	1249.5
10°	1247.5	1247.5	1245.5	1244.2
12.5°	1237.5	1237.5	1236.8	1234.8
15°	1224.7	1224.7	1222.1	1220.1
17.5°	1207.3	1208.7	1205.3	1205.3
20°	1188.5	1187.9	1185.2	1183.9
22.5°	1169.1	1167.8	1167.1	1163.1
25°	1148.3	1147.0	1145.0	1143.0
27.5°	1112.8	1112.1	1110.1	1107.4
30°	1058.5	1057.8	1055.1	1055.1
32.5°	988.1	987.4	984.8	985.4
35°	915.0	917.7	916.4	913.7
37.5°	854.0	856.1	857.4	856.1
40°	803.1	809.1	809.8	811.1
42.5°	748.8	756.8	759.5	760.9
45°	683.8	691.1	697.2	695.8
47.5°	617.4	622.8	628.1	624.1
50°	553.7	557.1	559.1	559.1
52.5°	493.4	493.4	492.7	493.4
55°	424.3	424.3	421.7	423.0
57.5°	351.9	353.3	351.3	347.9
60°	284.9	281.6	280.2	278.2
62.5°	221.9	221.9	217.2	223.2
65°	166.3	164.2	162.2	161.5
67.5°	120.7	120.0	118.0	117.3
70°	85.1	82.5	81.8	80.4
72.5°	57.0	57.0	55.6	55.6
75°	34.9	31.5	30.8	31.5
77.5°	24.1	23.5	23.5	22.8
80°	16.1	15.4	16.8	14.7
82.5°	10.1	10.7	10.1	10.7
85°	6.7	8.0	7.4	7.4
87.5°	4.0	4.0	4.0	4.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)