

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: P857627

Luminaire Tested: **LX4C30D010 EX4C309830 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P857627
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-1)
Test Lab: INNOVATION CENTER
Issue Date: 2/9/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C30D010 EX4C309830 4LBLWW*
Description:
Light Source: -
Ballast/Driver: -

Summary

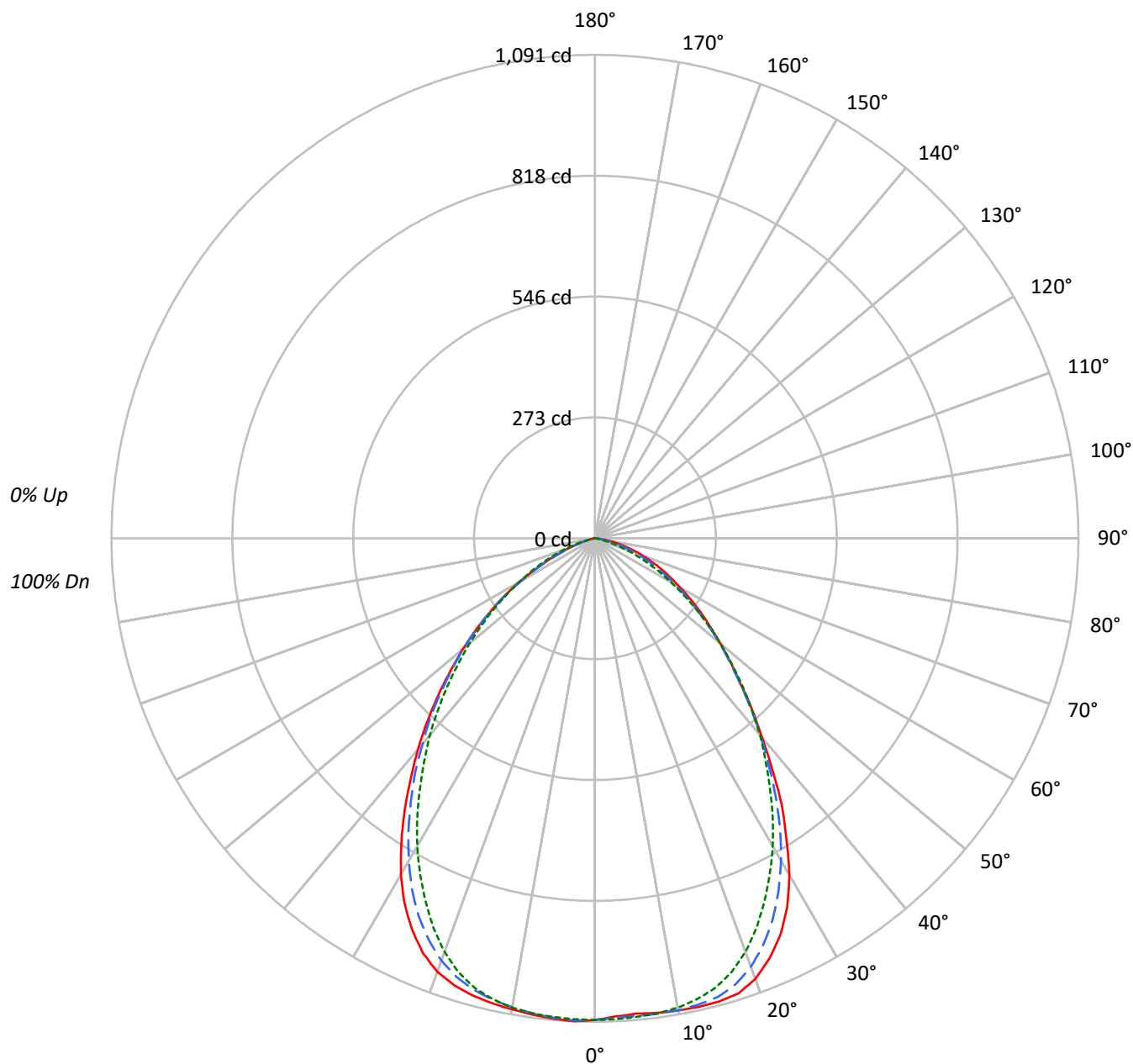
Lumens per Lamp: N/A
Luminaire Lumens: 2084.0 lumens
Efficiency: N/A
Efficacy: 65.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
Input Voltage (V):
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: 25 FT

TEST NUMBER: P857627

CATALOG NUMBER: LX4C30D010 EX4C309830 4LBLWW*

Luminous Intensity Polar Plot





TEST NUMBER: P857627

CATALOG NUMBER: LX4C30D010 EX4C309830 4LBLWW*

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89		
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78		
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68		
4	88	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60		
5	82	71	63	57	80	70	63	57	68	61	57	66	60	56	64	59	55	54		
6	76	65	57	51	75	64	56	51	62	56	51	61	55	50	59	54	50	48		
7	71	59	51	46	70	59	51	46	57	50	46	56	50	45	54	49	45	43		
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39		
9	63	51	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36		
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	133542	133542	133542
5°	132794	133707	134200
10°	134991	134180	134679
15°	137629	133585	135823
20°	138334	129836	136033
25°	134063	122622	132246
30°	124439	113785	124212
35°	110188	103214	112272
40°	93947	92953	99560
45°	80703	81641	86732
50°	70449	70602	74348
55°	62243	59630	61643
60°	54547	48650	48453
65°	48285	37732	33575
70°	41200	25934	19971
75°	33322	13955	9114
80°	22852	3467	2335
85°	6907	1128	1128



TEST NUMBER: P857627

CATALOG NUMBER: LX4C30D010 EX4C309830 4LBLWW*

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.3	5.0
10°-20°	299.1	14.4
20°-30°	432.1	20.7
30°-40°	446.7	21.4
40°-50°	369.1	17.7
50°-60°	254.8	12.2
60°-70°	133.4	6.4
70°-80°	42.0	2.0
80°-90°	3.6	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°	834.5	40.0
0°-40°	1281.2	61.5
0°-60°	1905.1	91.4
0°-90°	2084.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2084.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1087	1087	1087	1087	1087	
5°	1077	1082	1084	1086	1088	103
15°	1082	1072	1050	1055	1068	305
25°	989	949	905	941	976	452
35°	735	710	688	724	749	456
45°	464	462	470	491	499	362
55°	291	282	278	286	288	261
65°	166	151	130	108	116	165
75°	70	55	29	20	19	75
85°	5	2	1	1	1	10
90°	0	0	0	0	0	



TEST NUMBER: P857627

CATALOG NUMBER: LX4C30D010 EX4C309830 4LBLWW*

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1087.0	1087.0	1087.0	1087.0	1087.0	1087.0	1087.0	1087.0	1087.0	1087.0	1087.0
2.5°	1080.1	1080.5	1080.5	1081.3	1081.3	1081.3	1081.7	1081.7	1082.1	1082.5	1082.9
5°	1076.8	1076.8	1077.6	1078.0	1078.8	1079.3	1080.1	1080.5	1081.3	1081.7	1082.1
7.5°	1080.1	1080.1	1080.5	1080.9	1080.9	1081.3	1081.3	1081.7	1082.1	1082.5	1082.5
10°	1082.1	1082.1	1082.1	1082.1	1082.5	1082.5	1082.5	1082.1	1082.1	1082.1	1081.7
12.5°	1082.9	1082.9	1082.5	1082.1	1082.5	1082.1	1082.1	1080.9	1080.1	1079.3	1078.0
15°	1082.1	1082.1	1081.7	1081.3	1080.9	1080.1	1079.6	1077.6	1076.0	1073.6	1071.9
17.5°	1076.8	1076.0	1075.2	1074.4	1072.8	1071.5	1070.7	1067.0	1064.1	1060.1	1055.6
20°	1058.1	1057.2	1056.0	1053.9	1051.9	1050.3	1047.8	1042.5	1039.7	1033.5	1029.1
22.5°	1027.4	1026.6	1027.0	1023.4	1019.3	1016.8	1015.2	1010.7	1005.8	998.0	993.1
25°	989.0	986.6	986.6	980.9	978.9	977.2	975.2	969.9	962.5	955.6	949.1
27.5°	939.3	936.0	934.4	933.6	928.7	925.0	922.1	918.0	911.9	905.7	896.8
30°	877.2	876.8	874.7	871.1	867.4	865.8	862.5	855.5	849.8	845.4	839.7
32.5°	804.2	803.7	803.7	803.7	801.3	800.9	796.0	792.3	787.8	780.9	777.2
35°	734.7	734.3	734.7	728.6	726.9	725.8	725.3	722.9	716.8	713.5	710.3
37.5°	656.4	657.6	656.8	655.2	657.2	653.6	656.4	651.1	648.7	647.8	644.1
40°	585.8	589.0	585.8	586.1	588.2	584.5	584.5	583.7	582.0	581.2	580.4
42.5°	525.3	521.2	523.7	521.7	523.7	522.5	520.4	521.7	522.1	520.4	520.1
45°	464.5	465.3	466.1	465.0	465.0	463.7	467.0	465.0	465.0	465.3	462.5
47.5°	415.1	413.9	414.7	413.9	414.3	413.5	414.3	414.7	413.9	413.9	411.4
50°	368.6	367.8	370.6	368.2	368.2	367.8	368.2	367.4	366.1	366.1	367.0
52.5°	328.2	326.6	326.1	328.2	325.3	325.3	325.8	325.0	323.3	322.5	320.4
55°	290.6	290.3	290.6	289.0	288.2	288.2	286.2	285.4	284.9	282.9	281.6
57.5°	255.5	254.3	254.7	254.3	252.6	252.3	250.7	250.7	249.0	247.4	245.3
60°	222.0	222.0	223.3	221.7	220.4	219.6	218.8	217.9	215.1	212.2	209.8
62.5°	192.3	192.7	192.3	191.0	190.2	189.4	188.6	186.1	183.7	182.1	179.2
65°	166.1	165.7	164.5	163.7	161.7	161.7	160.0	158.8	156.0	153.5	150.6
67.5°	139.2	138.4	138.4	138.4	135.9	135.5	134.7	132.2	129.8	126.5	124.1
70°	114.7	115.5	114.3	113.1	111.8	111.5	110.2	107.7	104.9	101.7	99.6
72.5°	91.4	92.3	91.0	90.6	88.2	87.4	86.9	84.9	81.6	79.6	76.3
75°	70.2	70.6	69.8	69.0	67.3	67.0	64.9	63.3	61.3	58.0	55.1
77.5°	50.7	49.8	49.8	48.2	46.5	46.5	46.1	43.7	40.8	38.3	35.9
80°	32.3	31.8	30.6	29.8	28.5	28.2	27.7	25.7	23.6	22.0	20.4
82.5°	16.3	16.0	15.5	15.1	14.3	13.5	13.9	12.2	11.4	9.8	8.6
85°	4.9	5.4	5.4	4.9	4.5	4.5	4.5	4.1	3.3	2.9	2.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P857627

CATALOG NUMBER: LX4C30D010 EX4C309830 4LBLWW*

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1087.0	1087.0	1087.0	1087.0	1087.0	1087.0	1087.0	1087.0	1087.0	1087.0	1087.0
2.5°	1083.4	1083.7	1084.2	1084.5	1084.5	1085.0	1085.3	1085.8	1086.2	1086.2	1086.6
5°	1082.5	1083.4	1083.4	1083.7	1083.7	1083.7	1084.2	1084.2	1084.2	1084.2	1084.5
7.5°	1082.9	1082.9	1082.9	1082.5	1082.5	1082.1	1082.1	1082.1	1081.3	1081.3	1081.3
10°	1080.9	1080.5	1080.1	1079.3	1078.8	1078.5	1077.6	1076.8	1076.0	1075.6	1074.7
12.5°	1076.8	1075.2	1073.6	1071.9	1071.1	1070.7	1069.0	1067.9	1066.6	1065.4	1064.6
15°	1068.7	1066.2	1063.3	1060.1	1059.2	1058.4	1055.6	1053.1	1051.5	1050.3	1048.2
17.5°	1052.3	1047.4	1044.1	1039.2	1037.2	1036.4	1031.9	1029.4	1026.6	1025.8	1024.2
20°	1023.4	1018.8	1012.8	1008.2	1005.8	1003.3	999.6	996.4	993.1	993.1	991.1
22.5°	987.0	981.3	973.5	967.8	967.5	962.5	959.2	955.6	954.3	951.9	951.9
25°	941.3	936.4	927.9	923.0	920.5	919.2	913.9	909.0	906.6	904.6	906.2
27.5°	890.7	883.4	876.8	870.7	868.6	866.1	861.2	859.3	854.7	854.4	853.9
30°	832.7	825.4	818.8	815.9	811.9	809.9	806.1	803.7	802.1	802.1	801.3
32.5°	771.9	765.4	762.1	755.9	754.0	751.1	748.6	746.2	747.0	746.2	746.6
35°	706.2	704.6	698.4	694.8	694.8	694.3	690.2	688.6	687.8	688.2	690.2
37.5°	643.7	638.8	634.7	632.2	634.3	631.9	631.4	631.4	633.9	632.2	635.5
40°	577.2	576.8	575.2	576.0	576.3	573.5	574.3	574.7	576.3	579.6	580.1
42.5°	519.3	518.8	518.8	518.8	518.0	516.3	518.0	520.9	520.4	522.9	525.0
45°	463.3	462.5	464.2	462.9	465.3	466.1	465.0	465.8	468.2	469.9	473.1
47.5°	412.3	412.3	412.7	413.5	411.0	413.1	413.9	415.6	416.8	417.6	419.2
50°	364.9	364.9	364.1	364.1	364.1	365.3	363.7	365.7	366.1	369.4	371.4
52.5°	321.2	319.2	320.4	319.6	318.0	317.2	318.0	318.4	320.8	321.7	324.1
55°	279.7	279.7	276.4	275.5	276.8	276.4	275.9	275.9	277.2	278.4	280.5
57.5°	242.9	240.4	238.0	237.6	236.3	236.8	236.8	236.3	235.5	236.0	236.3
60°	208.2	206.5	202.9	202.9	202.4	202.1	200.0	199.6	197.5	198.0	196.4
62.5°	176.3	175.5	170.6	169.0	169.0	167.7	165.7	165.3	162.5	162.5	160.9
65°	147.8	145.4	142.5	139.6	139.6	138.0	136.7	133.0	131.0	129.8	127.3
67.5°	121.6	118.0	115.1	112.6	111.0	110.6	107.7	105.3	102.0	100.0	96.3
70°	96.3	93.5	90.6	88.2	86.5	84.9	82.0	78.4	75.9	72.2	69.8
72.5°	72.7	70.2	67.8	64.5	62.4	61.3	58.4	55.1	51.0	48.6	45.3
75°	52.3	49.4	46.1	43.2	42.0	40.8	37.5	35.1	32.3	29.4	26.1
77.5°	33.9	30.6	28.2	24.9	24.5	23.6	20.4	17.9	16.0	14.3	12.2
80°	17.9	16.3	14.3	12.2	11.4	10.2	8.6	7.3	6.2	4.9	4.1
82.5°	7.8	6.5	5.4	4.5	4.1	3.7	2.9	2.4	2.1	2.1	1.6
85°	2.1	1.6	1.6	1.2	0.8	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.0	0.4	0.4	0.0
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: P857627

CATALOG NUMBER: LX4C30D010 EX4C309830 4LBLWW*

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1087.0	1087.0	1087.0	1087.0	1087.0	1087.0	1087.0	1087.0	1087.0	1087.0	1087.0
2.5°	1087.0	1087.4	1087.8	1087.8	1088.2	1088.6	1088.6	1089.1	1089.4	1089.9	1089.9
5°	1085.0	1085.0	1085.0	1085.3	1085.3	1085.3	1085.3	1086.2	1086.2	1086.6	1087.0
7.5°	1080.9	1080.9	1080.9	1080.9	1080.5	1080.9	1080.5	1080.5	1081.3	1081.7	1082.1
10°	1074.4	1073.9	1073.9	1073.6	1073.6	1073.6	1073.9	1074.4	1074.7	1075.2	1076.4
12.5°	1064.1	1063.8	1063.8	1063.3	1063.3	1063.8	1064.1	1065.0	1066.6	1067.4	1069.0
15°	1047.8	1047.4	1047.8	1048.2	1049.0	1050.3	1051.5	1052.7	1055.2	1057.2	1059.2
17.5°	1024.2	1024.5	1025.0	1025.8	1027.0	1028.6	1031.9	1035.1	1038.0	1041.3	1044.6
20°	991.5	993.1	993.6	996.4	997.2	1000.9	1004.5	1009.5	1013.9	1018.0	1022.6
22.5°	952.3	953.5	955.1	958.4	960.5	965.4	969.9	975.6	980.5	985.8	992.3
25°	907.8	908.2	913.1	913.1	918.0	922.1	927.4	933.6	940.9	947.8	952.3
27.5°	857.2	859.3	862.9	864.5	868.2	874.7	879.3	886.6	894.0	900.0	904.9
30°	804.2	805.8	811.9	812.7	815.6	821.3	827.4	834.3	840.0	847.0	851.5
32.5°	748.2	752.7	756.4	759.2	760.0	768.6	771.9	776.8	783.3	790.3	794.7
35°	694.0	696.0	701.3	702.9	705.4	710.3	716.8	720.9	724.1	728.6	733.9
37.5°	636.3	642.5	643.7	648.7	649.5	653.9	657.2	662.1	666.1	670.2	671.0
40°	582.9	584.9	589.4	590.7	591.5	597.6	601.7	602.9	605.0	608.6	613.5
42.5°	528.6	530.7	535.6	534.3	538.0	540.8	542.9	547.8	549.8	551.1	551.1
45°	475.1	475.9	479.2	480.8	482.9	484.5	488.2	490.6	491.4	495.1	496.3
47.5°	424.1	424.9	427.4	430.3	429.4	431.4	435.5	436.8	437.1	439.6	440.9
50°	373.9	376.0	379.2	378.4	380.9	382.0	385.8	386.6	386.6	386.9	387.4
52.5°	327.0	328.6	329.4	330.2	331.5	333.5	335.1	334.3	335.9	337.6	336.4
55°	280.5	281.6	283.7	284.5	284.5	284.9	284.1	287.8	286.2	285.7	286.2
57.5°	238.0	236.3	236.0	238.0	238.8	238.4	237.1	238.8	238.8	238.0	236.8
60°	196.7	195.6	195.1	195.6	193.9	192.7	193.5	192.7	190.7	189.9	190.2
62.5°	159.2	157.9	154.7	154.7	153.9	153.5	150.3	150.6	149.0	146.5	147.3
65°	124.5	121.3	119.6	119.2	116.4	113.9	113.1	110.2	107.7	107.4	107.7
67.5°	93.5	89.8	86.9	85.7	84.1	82.0	79.2	76.8	77.6	77.1	78.7
70°	64.9	62.4	59.6	57.5	58.4	55.9	54.3	54.3	54.7	55.1	55.9
72.5°	43.2	40.0	38.8	37.5	36.7	35.1	35.9	35.9	35.5	35.9	35.1
75°	24.5	22.8	21.7	21.2	20.4	20.4	20.4	20.4	20.0	19.6	19.6
77.5°	11.1	10.2	9.8	9.4	9.4	9.4	9.0	8.6	8.6	8.6	8.2
80°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
82.5°	1.6	1.6	2.1	2.1	2.1	1.6	2.1	2.1	1.6	1.6	2.1
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.4	0.4	0.4	0.0	0.4	0.4	0.4	0.4	0.0	0.4	0.0
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: P857627

CATALOG NUMBER: LX4C30D010 EX4C309830 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1087.0	1087.0	1087.0	1087.0	1087.0	1087.0	1087.0	1087.0
2.5°	1090.2	1090.7	1090.7	1090.7	1091.1	1091.1	1091.1	1091.1
5°	1087.4	1087.8	1087.8	1087.8	1088.2	1088.2	1088.2	1088.2
7.5°	1082.5	1082.9	1082.9	1083.4	1083.4	1083.7	1083.7	1084.2
10°	1076.8	1077.6	1078.0	1078.5	1078.8	1079.3	1079.3	1079.6
12.5°	1070.7	1071.5	1071.9	1072.8	1073.6	1073.9	1074.4	1074.7
15°	1061.7	1063.3	1064.1	1064.6	1066.2	1067.0	1067.4	1067.9
17.5°	1047.4	1050.7	1051.9	1052.7	1054.4	1056.0	1057.2	1057.6
20°	1027.0	1030.7	1032.3	1034.3	1036.8	1038.9	1039.7	1040.5
22.5°	998.4	1002.5	1005.0	1007.4	1009.5	1011.5	1014.8	1013.6
25°	957.6	964.6	967.5	968.6	973.2	975.6	977.2	975.6
27.5°	911.9	916.0	918.4	921.3	924.6	927.0	927.9	930.3
30°	856.8	863.7	863.3	866.1	870.3	872.7	873.6	875.6
32.5°	799.6	802.9	805.3	805.0	806.6	811.0	809.4	813.1
35°	738.8	739.3	743.4	742.9	746.2	746.2	746.2	748.6
37.5°	673.9	678.8	676.7	681.6	680.0	681.3	681.3	682.1
40°	614.8	616.4	616.4	618.0	619.2	618.0	618.8	620.8
42.5°	553.5	555.1	555.6	554.8	555.9	559.7	556.8	559.2
45°	496.3	497.6	499.2	497.9	500.0	498.8	500.0	499.2
47.5°	442.5	442.0	441.7	444.9	442.0	442.5	444.1	441.2
50°	387.4	389.8	388.2	389.4	390.2	390.2	389.0	389.0
52.5°	338.4	338.0	336.7	338.0	337.2	337.6	338.4	337.6
55°	287.8	289.4	288.6	288.2	288.6	288.6	291.1	287.8
57.5°	238.0	237.1	238.4	241.2	238.4	240.4	241.7	242.0
60°	190.7	190.7	193.1	191.8	194.3	196.4	198.0	197.2
62.5°	145.4	147.3	148.2	148.6	151.1	152.7	152.7	152.2
65°	107.7	110.6	110.6	112.3	113.1	113.1	113.9	115.5
67.5°	79.6	79.6	80.0	80.8	80.4	80.4	81.2	81.6
70°	55.6	54.7	55.9	55.6	55.6	55.1	55.6	55.6
72.5°	35.1	35.1	35.5	35.1	34.3	34.7	34.7	35.5
75°	18.8	19.6	18.8	18.8	19.2	18.4	18.8	19.2
77.5°	7.8	7.8	7.8	7.8	7.8	7.3	7.3	7.3
80°	3.7	3.7	3.7	3.7	3.7	3.7	3.3	3.3
82.5°	1.6	2.1	1.6	2.1	1.6	1.6	1.6	1.6
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.0	0.4	0.0	0.4	0.0	0.0	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)