

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: P857448

Luminaire Tested: **LX4C25D010 EX4C259827 4LBSWNH**

Issue Date: 2/18/2022

Test Information

Test Method: LM-79-08
Report Number: P857448
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P251634)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C25D010 EX4C259827 4LBSWNH
Description:
Light Source: -
Ballast/Driver: -

Summary

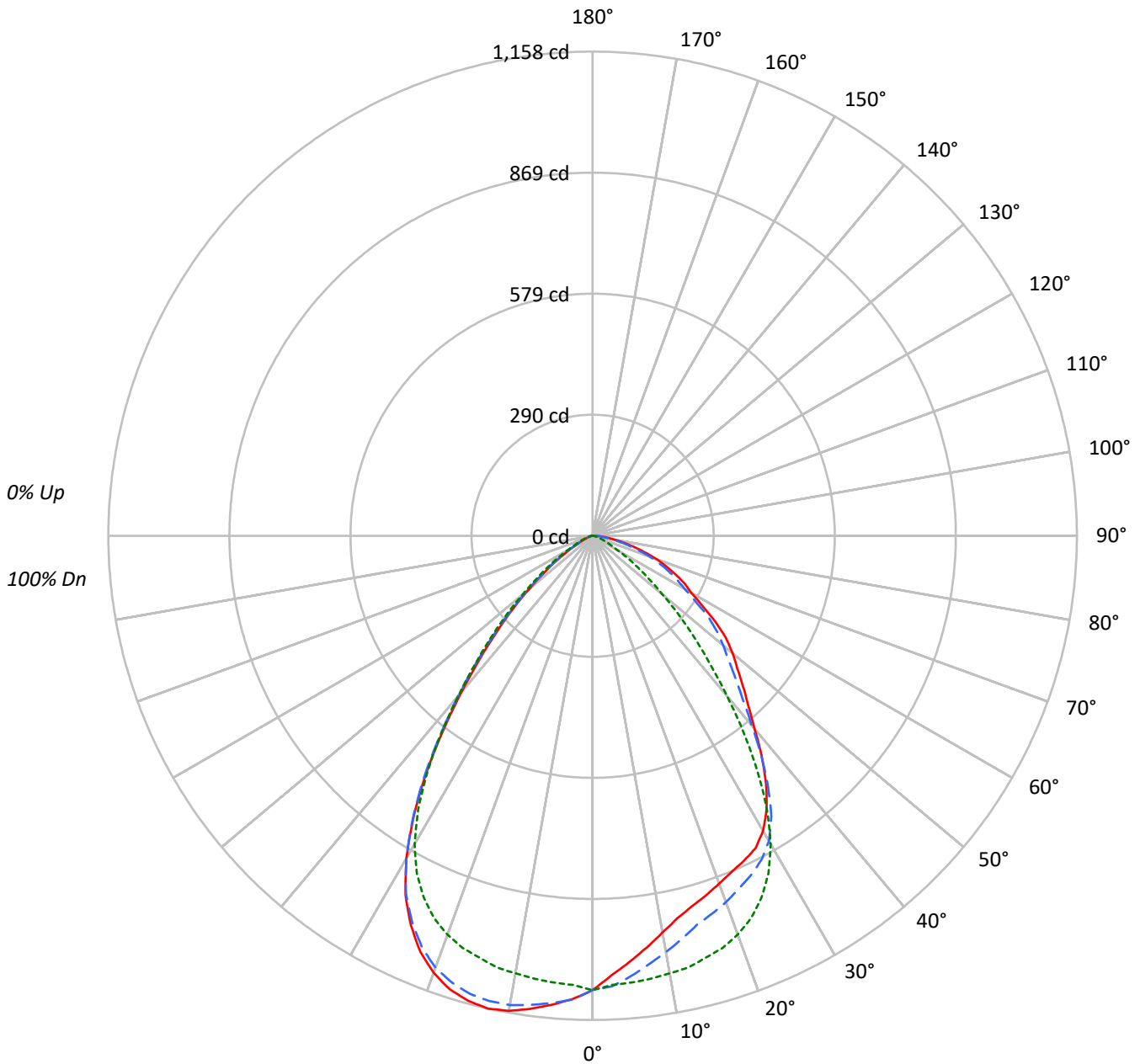
Lumens per Lamp: N/A
Luminaire Lumens: 1904.7 lumens
Efficiency: N/A
Efficacy: 60.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
Input Voltage (V):
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									
RC	80									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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89																			
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79																			
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70																			
4	90	80	72	67	88	78	72	66	76	70	66	74	69	65	72	68	64	62																			
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56																			
6	78	67	59	53	76	66	59	53	64	58	53	62	57	52	61	56	52	50																			
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	56	51	47	46																			
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42																			
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38																			
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	133505	133505	133505
5°	126061	132288	138837
10°	120183	132583	143935
15°	116656	132873	146405
20°	115703	132725	145354
25°	116170	129454	139322
30°	115615	120765	126340
35°	108373	103109	104174
40°	96561	79946	78150
45°	88313	59611	55945
50°	83503	41761	37728
55°	76787	28187	23689
60°	67103	16487	13047
65°	63517	10581	7326
70°	57831	7543	4562
75°	47894	5316	3323
80°	37567	2971	1981
85°	33548	1973	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.7	5.4
10°-20°	294.5	15.5
20°-30°	436.6	22.9
30°-40°	437.2	23.0
40°-50°	305.6	16.0
50°-60°	181.8	9.5
60°-70°	94.9	5.0
70°-80°	42.2	2.2
80°-90°	9.2	0.5
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°	833.8	43.8
0°-40°	1271.1	66.7
0°-60°	1758.5	92.3
0°-90°	1904.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1904.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1087	1087	1087	1087	1087	
5°	1022	1057	1073	1122	1126	96
15°	917	963	1045	1134	1151	260
25°	857	896	955	1021	1028	395
35°	723	731	688	700	695	448
45°	508	483	343	332	322	395
55°	358	336	132	115	111	318
65°	218	200	36	27	25	216
75°	101	88	11	7	7	109
85°	24	18	1	1	0	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1086.7	1086.7	1086.7	1086.7	1086.7	1086.7	1086.7	1086.7	1086.7	1086.7	1086.7
2.5°	1051.6	1064.2	1051.6	1055.8	1072.7	1057.2	1065.6	1065.6	1061.4	1071.2	1078.2
5°	1022.2	1034.8	1022.2	1027.8	1046.0	1030.6	1040.4	1037.6	1039.1	1047.4	1057.2
7.5°	992.9	1002.6	991.4	998.4	1015.2	1002.6	1011.0	1011.0	1012.4	1025.0	1033.4
10°	963.4	971.8	963.4	969.0	987.2	976.0	981.6	983.0	987.2	998.4	1011.0
12.5°	936.8	943.8	935.4	943.8	959.2	948.0	955.0	956.4	960.6	973.2	987.2
15°	917.2	924.2	915.8	922.8	936.8	928.4	934.0	936.8	939.5	950.8	963.4
17.5°	901.8	907.4	900.4	908.8	920.0	910.2	918.6	918.6	922.8	934.0	948.0
20°	885.0	890.6	885.0	892.0	904.6	896.2	903.2	903.2	907.4	920.0	932.6
22.5°	869.6	872.4	869.6	875.2	887.7	880.8	885.0	886.4	890.6	901.8	913.1
25°	857.0	862.6	859.7	865.3	873.7	866.8	871.0	872.4	876.6	886.4	896.2
27.5°	843.0	845.8	843.0	850.0	857.0	851.3	855.6	854.2	857.0	865.3	873.7
30°	815.0	817.8	817.8	821.9	827.6	824.8	829.0	824.8	827.6	834.6	843.0
32.5°	774.4	775.8	777.2	781.3	785.5	781.3	784.2	784.2	784.2	789.8	795.3
35°	722.6	725.3	724.0	726.8	731.0	729.5	729.5	728.1	725.3	728.1	731.0
37.5°	663.7	659.5	659.5	663.7	666.6	661.0	663.7	661.0	661.0	662.3	662.3
40°	602.1	597.9	602.1	603.5	604.9	602.1	600.8	597.9	593.7	595.1	592.3
42.5°	550.4	547.5	549.0	549.0	550.4	547.5	549.0	543.3	539.1	536.3	532.1
45°	508.3	504.1	508.3	505.5	505.5	504.1	502.7	499.9	494.3	490.1	483.1
47.5°	469.1	469.1	470.5	470.5	470.5	467.7	467.7	462.1	456.5	450.9	441.1
50°	436.9	434.1	439.7	439.7	435.5	434.1	435.5	428.5	424.3	417.2	407.4
52.5°	401.8	401.8	403.2	403.2	401.8	399.1	400.5	394.9	390.7	383.7	373.9
55°	358.5	355.7	359.9	359.9	358.5	357.1	358.5	354.3	350.1	344.5	336.0
57.5°	309.5	308.1	310.9	312.3	309.5	309.5	310.9	306.7	305.2	299.6	291.2
60°	273.1	271.6	274.5	275.9	273.1	273.1	273.1	267.4	264.7	259.1	253.4
62.5°	247.8	246.5	249.2	247.8	246.5	245.1	246.5	240.9	238.1	232.5	226.9
65°	218.5	219.8	221.2	221.2	219.8	218.5	218.5	215.7	212.9	207.2	200.3
67.5°	190.4	190.4	191.8	193.2	191.8	191.8	191.8	187.6	184.9	180.7	172.3
70°	161.0	159.6	163.8	163.8	161.0	162.4	161.0	159.6	156.9	151.2	144.3
72.5°	130.2	130.2	131.6	131.6	130.2	130.2	130.2	128.9	124.6	121.8	114.9
75°	100.9	100.9	102.2	103.6	100.9	100.9	102.2	99.4	96.6	92.5	88.2
77.5°	75.6	74.2	75.6	75.6	74.2	74.2	74.2	72.9	71.4	67.1	63.0
80°	53.1	51.8	53.1	53.1	53.1	51.8	51.8	50.4	50.4	47.6	43.4
82.5°	36.4	35.0	36.4	36.4	36.4	35.0	35.0	35.0	33.6	32.2	29.4
85°	23.8	22.4	22.4	23.8	22.4	22.4	22.4	22.4	21.0	19.6	18.2
87.5°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	9.8	9.8	9.8	8.4
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1086.7	1086.7	1086.7	1086.7	1086.7	1086.7	1086.7	1086.7	1086.7	1086.7	1086.7
2.5°	1072.7	1069.8	1078.2	1075.4	1076.8	1069.8	1081.1	1075.4	1082.4	1075.4	1089.4
5°	1054.4	1051.6	1064.2	1062.8	1064.2	1058.7	1071.2	1069.8	1078.2	1072.7	1088.0
7.5°	1034.8	1032.0	1046.0	1047.4	1050.2	1044.7	1061.4	1061.4	1069.8	1068.4	1085.2
10°	1012.4	1013.8	1027.8	1030.6	1036.2	1033.4	1048.8	1053.1	1064.2	1062.8	1083.8
12.5°	991.4	991.4	1009.6	1015.2	1019.4	1018.0	1036.2	1041.8	1054.4	1057.2	1076.8
15°	970.4	971.8	988.6	997.0	1002.6	1001.2	1020.9	1027.8	1043.2	1044.7	1068.4
17.5°	953.5	952.2	970.4	977.4	985.8	984.4	1005.4	1013.8	1029.2	1033.4	1055.8
20°	939.5	938.2	955.0	963.4	969.0	967.6	988.6	998.4	1012.4	1015.2	1037.6
22.5°	922.8	920.0	936.8	943.8	949.4	948.0	966.2	973.2	987.2	990.0	1011.0
25°	903.2	900.4	915.8	920.0	924.2	921.4	936.8	941.0	952.2	955.0	976.0
27.5°	880.8	873.7	886.4	886.4	889.2	885.0	896.2	900.4	910.2	910.2	929.8
30°	845.8	836.0	843.0	841.6	843.0	837.3	844.4	845.8	852.8	851.3	865.3
32.5°	796.8	782.8	787.0	782.8	778.6	770.2	778.6	775.8	781.3	775.8	788.4
35°	729.5	715.5	714.1	708.6	704.4	697.3	697.3	690.4	691.7	687.5	696.0
37.5°	656.8	638.6	635.7	624.6	617.5	609.1	609.1	603.5	596.5	593.7	600.8
40°	585.3	565.7	558.8	540.5	533.5	525.1	519.5	512.5	509.7	498.5	504.1
42.5°	523.7	502.7	487.3	467.7	460.7	448.1	439.7	431.2	427.1	414.5	420.1
45°	471.9	446.7	429.9	404.7	394.9	380.9	368.3	358.5	348.7	343.1	340.3
47.5°	428.5	401.8	379.4	351.4	336.0	323.4	306.7	296.9	284.3	277.2	273.1
50°	392.1	362.7	337.4	305.2	289.9	275.9	256.2	240.9	229.6	218.5	215.7
52.5°	359.9	329.1	301.1	264.7	246.5	229.6	208.7	191.8	182.0	169.4	168.0
55°	322.0	295.5	264.7	226.9	208.7	191.8	169.4	152.7	140.0	131.6	128.9
57.5°	281.5	256.2	226.9	189.0	170.9	152.7	131.6	116.2	105.0	98.0	96.6
60°	243.6	219.8	191.8	154.0	135.8	120.5	98.0	82.6	72.9	67.1	64.4
62.5°	215.7	193.2	166.7	131.6	114.9	99.4	78.5	64.4	56.0	50.4	47.6
65°	189.0	166.7	142.9	110.6	96.6	82.6	63.0	50.4	42.0	36.4	33.6
67.5°	161.0	141.4	119.0	92.5	78.5	67.1	50.4	39.2	32.2	28.0	25.2
70°	133.0	114.9	96.6	74.2	64.4	53.1	39.2	30.8	23.8	21.0	18.2
72.5°	105.0	91.0	75.6	57.4	49.0	42.0	30.8	22.4	18.2	15.4	12.7
75°	78.5	68.6	56.0	43.4	36.4	30.8	22.4	16.8	14.0	11.2	9.8
77.5°	56.0	47.6	39.2	29.4	26.7	22.4	15.4	12.7	9.8	7.0	5.6
80°	37.8	33.6	26.7	21.0	16.8	15.4	11.2	8.4	5.6	4.2	4.2
82.5°	25.2	21.0	16.8	12.7	11.2	9.8	7.0	5.6	4.2	2.8	2.8
85°	15.4	12.7	9.8	7.0	7.0	5.6	4.2	2.8	1.4	1.4	1.4
87.5°	7.0	5.6	4.2	2.8	2.8	1.4	1.4	1.4	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1086.7	1086.7	1086.7	1086.7	1086.7	1086.7	1086.7	1086.7	1086.7	1086.7	1086.7
2.5°	1100.7	1092.2	1086.7	1093.6	1096.4	1092.2	1096.4	1103.4	1110.5	1111.8	1092.2
5°	1102.1	1093.6	1090.8	1099.3	1100.7	1099.3	1103.4	1113.3	1121.6	1124.5	1104.9
7.5°	1102.1	1096.4	1095.1	1104.9	1106.2	1104.9	1111.8	1123.1	1131.4	1137.1	1117.4
10°	1099.3	1096.4	1097.8	1106.2	1109.1	1109.1	1118.9	1131.4	1139.8	1145.4	1125.8
12.5°	1095.1	1095.1	1095.1	1104.9	1107.6	1109.1	1117.4	1134.2	1139.8	1148.2	1128.6
15°	1088.0	1088.0	1088.0	1097.8	1102.1	1102.1	1111.8	1127.3	1134.2	1142.6	1123.1
17.5°	1075.4	1075.4	1076.8	1085.2	1089.4	1089.4	1099.3	1116.1	1120.2	1130.0	1110.5
20°	1057.2	1057.2	1058.7	1067.1	1071.2	1068.4	1081.1	1095.1	1099.3	1107.6	1088.0
22.5°	1030.6	1030.6	1030.6	1039.1	1041.8	1040.4	1053.1	1065.6	1065.6	1076.8	1055.8
25°	991.4	994.2	991.4	999.8	1002.6	1001.2	1012.4	1023.6	1020.9	1033.4	1012.4
27.5°	943.8	942.4	942.4	949.4	949.4	948.0	956.4	969.0	966.2	974.6	955.0
30°	878.0	882.2	875.2	885.0	880.8	878.0	883.6	894.8	890.6	897.6	882.2
32.5°	802.4	796.8	796.8	796.8	799.5	792.6	798.2	803.8	799.5	806.6	789.8
35°	703.0	704.4	700.1	701.5	703.0	694.6	700.1	705.7	700.1	704.4	689.0
37.5°	603.5	604.9	595.1	600.8	595.1	592.3	597.9	600.8	595.1	599.3	582.5
40°	504.1	501.3	499.9	499.9	501.3	494.3	498.5	502.7	498.5	501.3	485.9
42.5°	417.2	415.9	413.1	414.5	410.3	408.9	410.3	414.5	410.3	413.1	401.8
45°	341.6	338.9	334.7	336.0	336.0	329.1	333.2	336.0	331.9	333.2	323.4
47.5°	271.6	267.4	267.4	266.1	266.1	263.2	267.4	266.1	261.8	264.7	254.9
50°	211.4	208.7	208.7	208.7	208.7	204.4	205.8	208.7	204.4	204.4	198.9
52.5°	165.2	161.0	158.3	158.3	158.3	156.9	156.9	158.3	154.0	154.0	152.7
55°	124.6	123.2	119.0	119.0	119.0	114.9	116.2	116.2	114.9	114.9	110.6
57.5°	92.5	88.2	85.4	85.4	82.6	82.6	81.2	82.6	79.8	79.8	77.0
60°	61.6	58.8	57.4	56.0	56.0	54.6	56.0	54.6	54.6	53.1	51.8
62.5°	44.8	42.0	39.2	39.2	39.2	37.8	37.8	37.8	37.8	37.8	36.4
65°	32.2	29.4	29.4	28.0	28.0	26.7	26.7	26.7	26.7	26.7	25.2
67.5°	22.4	21.0	19.6	19.6	19.6	19.6	19.6	19.6	18.2	18.2	18.2
70°	16.8	15.4	14.0	14.0	14.0	14.0	14.0	12.7	14.0	14.0	12.7
72.5°	11.2	11.2	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
75°	8.4	8.4	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
77.5°	5.6	5.6	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
80°	4.2	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
82.5°	2.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0
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



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CATALOG NUMBER: LX4C25D010 EX4C259827 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1086.7	1086.7	1086.7	1086.7	1086.7	1086.7	1086.7	1086.7
2.5°	1113.3	1111.8	1109.1	1113.3	1102.1	1097.8	1096.4	1109.1
5°	1128.6	1125.8	1125.8	1130.0	1117.4	1114.6	1111.8	1125.8
7.5°	1142.6	1139.8	1139.8	1144.0	1132.9	1130.0	1127.3	1141.3
10°	1151.1	1151.1	1151.1	1153.8	1144.0	1141.3	1139.8	1153.8
12.5°	1155.3	1155.3	1153.8	1159.4	1146.9	1146.9	1144.0	1158.0
15°	1149.6	1149.6	1149.6	1153.8	1142.6	1139.8	1139.8	1151.1
17.5°	1135.6	1135.6	1134.2	1138.5	1125.8	1125.8	1124.5	1137.1
20°	1114.6	1114.6	1111.8	1117.4	1104.9	1100.7	1099.3	1111.8
22.5°	1081.1	1079.6	1078.2	1081.1	1069.8	1067.1	1065.6	1076.8
25°	1037.6	1036.2	1033.4	1036.2	1023.6	1019.4	1019.4	1027.8
27.5°	976.0	976.0	971.8	976.0	962.0	960.6	959.2	969.0
30°	900.4	894.8	892.0	897.6	883.6	883.6	880.8	890.6
32.5°	806.6	801.0	799.5	802.4	789.8	785.5	791.2	796.8
35°	698.8	700.1	694.6	694.6	683.3	684.7	686.1	694.6
37.5°	595.1	592.3	590.9	592.3	583.9	581.1	578.4	586.8
40°	498.5	491.5	490.1	490.1	483.1	481.7	483.1	487.3
42.5°	407.4	406.1	400.5	403.2	396.3	399.1	397.7	397.7
45°	329.1	330.5	324.9	329.1	323.4	319.2	319.2	322.0
47.5°	260.5	260.5	259.1	259.1	254.9	256.2	253.4	257.6
50°	201.6	201.6	198.9	200.3	197.4	197.4	196.0	197.4
52.5°	154.0	152.7	152.7	151.2	148.4	149.8	151.2	148.4
55°	112.0	113.4	110.6	112.0	109.2	110.6	109.2	110.6
57.5°	77.0	78.5	75.6	78.5	75.6	77.0	75.6	75.6
60°	53.1	53.1	51.8	53.1	51.8	51.8	50.4	53.1
62.5°	36.4	36.4	36.4	36.4	36.4	35.0	36.4	36.4
65°	26.7	25.2	25.2	25.2	25.2	25.2	25.2	25.2
67.5°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
70°	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7
72.5°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
75°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
77.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
80°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
85°	1.4	1.4	1.4	0.0	1.4	0.0	0.0	0.0
87.5°	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



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)