

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: P857628

Luminaire Tested: **LX4C30D010 EX4C309830 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P857628
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-2)
Test Lab: INNOVATION CENTER
Issue Date: 2/14/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C30D010 EX4C309830 4LBLWWH
Description:
Light Source: -
Ballast/Driver: -

Summary

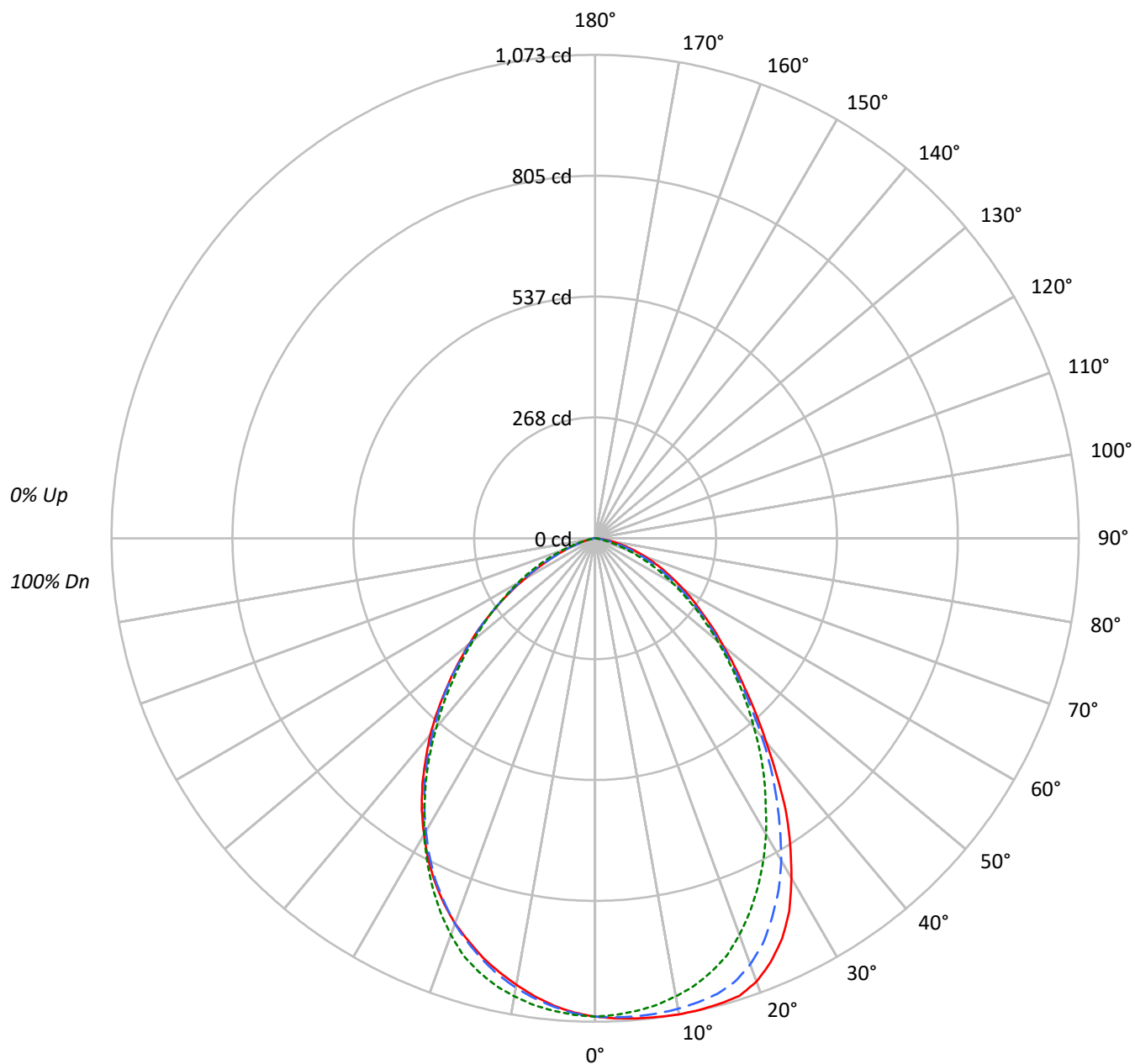
Lumens per Lamp: N/A
Luminaire Lumens: 2001.1 lumens
Efficiency: N/A
Efficacy: 63.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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
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	108	105	102	99	101	98	96	97	95	93	94	92	90	88		
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77		
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68		
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60		
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53		
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47		
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44	43		
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39		
9	62	50	43	38	61	50	42	37	48	42	37	47	41	37	47	41	37	35		
10	59	47	39	34	58	46	39	34	45	39	34	44	38	34	43	38	34	32		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	130446	130446	130446
5°	131906	129884	128478
10°	133843	128791	125522
15°	136040	126729	122532
20°	136896	122423	118906
25°	132965	115817	114041
30°	123573	107643	107699
35°	110623	98130	100199
40°	94701	87965	91173
45°	81519	77558	80459
50°	70870	67506	69551
55°	62372	58088	57552
60°	55505	48478	44645
65°	48692	38837	32296
70°	41811	27407	21839
75°	33891	15901	12769
80°	24267	6933	6367
85°	9162	2960	2960



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.1	5.0
10°-20°	283.3	14.2
20°-30°	404.5	20.2
30°-40°	423.1	21.1
40°-50°	354.5	17.7
50°-60°	248.1	12.4
60°-70°	135.1	6.8
70°-80°	46.9	2.3
80°-90°	5.4	0.3
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°	787.8	39.4
0°-40°	1211.0	60.5
0°-60°	1813.7	90.6
0°-90°	2001.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2001.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1062	1062	1062	1062	1062	
5°	1070	1065	1053	1044	1042	102
15°	1070	1047	996	968	963	302
25°	981	929	854	838	841	448
35°	738	701	654	659	668	457
45°	469	459	446	461	463	365
55°	291	281	271	271	269	263
65°	168	153	134	112	111	167
75°	71	58	34	27	27	77
85°	6	4	2	2	2	12
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°	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8
2.5°	1066.7	1065.5	1065.9	1065.9	1065.9	1065.5	1065.9	1065.5	1065.5	1065.1	1064.3
5°	1069.6	1068.8	1068.8	1068.8	1068.3	1068.0	1068.0	1067.5	1066.7	1066.3	1064.7
7.5°	1071.6	1070.8	1070.8	1070.4	1070.0	1069.6	1069.2	1068.0	1066.7	1065.9	1063.8
10°	1072.9	1071.6	1071.6	1070.8	1070.0	1069.6	1068.8	1067.1	1065.5	1063.5	1060.5
12.5°	1072.1	1070.8	1070.4	1069.6	1068.0	1067.1	1066.3	1064.3	1061.4	1058.6	1054.8
15°	1069.6	1068.8	1068.0	1066.7	1064.7	1063.5	1062.6	1059.4	1055.7	1051.6	1047.1
17.5°	1064.7	1063.5	1061.8	1060.2	1057.3	1056.1	1054.0	1049.9	1044.7	1039.0	1032.0
20°	1047.1	1046.3	1044.7	1041.8	1037.3	1035.7	1032.8	1027.6	1020.6	1013.6	1006.2
22.5°	1018.1	1016.9	1014.4	1011.9	1007.9	1005.1	1002.6	995.3	987.5	980.1	973.2
25°	980.9	979.8	976.5	973.2	969.1	964.2	961.7	956.0	948.3	938.9	928.7
27.5°	933.2	929.1	927.9	924.2	918.0	916.4	912.8	905.4	898.1	889.9	881.3
30°	871.1	871.1	868.6	867.0	861.3	859.6	855.5	847.8	843.8	832.3	825.8
32.5°	805.3	804.5	802.5	801.2	798.0	795.2	791.1	787.0	778.0	772.2	763.2
35°	737.6	732.7	733.5	731.0	729.0	725.7	725.3	720.8	712.7	709.4	701.2
37.5°	660.3	658.3	661.2	657.5	655.4	655.9	652.6	649.7	646.5	640.8	639.1
40°	590.5	592.2	591.8	588.5	590.2	588.1	584.8	582.0	580.3	576.7	575.4
42.5°	528.1	525.6	524.8	524.8	525.1	525.1	523.5	521.5	521.5	517.8	514.2
45°	469.2	469.2	468.4	470.8	467.2	467.2	465.9	465.6	464.0	463.1	458.6
47.5°	418.6	418.2	417.8	417.3	417.0	417.0	414.5	412.4	412.1	409.6	407.2
50°	370.8	373.3	372.5	370.4	369.6	370.0	368.4	367.1	366.8	362.7	363.0
52.5°	330.8	330.4	331.2	329.9	327.9	328.3	326.7	325.0	323.4	321.4	319.8
55°	291.2	293.2	292.4	291.2	290.8	290.0	288.7	286.7	286.2	281.8	281.3
57.5°	258.1	257.7	256.9	254.9	254.4	253.2	253.2	251.6	249.2	246.7	244.6
60°	225.9	225.9	224.6	224.2	222.6	222.1	221.8	220.1	217.2	215.3	212.0
62.5°	194.8	195.6	194.8	193.6	192.3	190.7	189.9	188.7	186.2	184.1	181.3
65°	167.5	167.0	166.7	165.0	164.6	162.9	162.6	160.1	157.7	156.0	152.8
67.5°	141.3	140.1	140.1	139.3	138.5	137.2	136.4	133.9	131.1	129.5	126.2
70°	116.4	115.6	115.6	115.6	113.5	112.3	111.9	110.7	106.6	105.0	101.7
72.5°	93.5	93.1	92.7	91.5	90.2	90.2	88.6	86.1	84.1	82.1	79.6
75°	71.4	72.3	71.4	69.8	69.5	68.6	67.4	65.4	63.3	60.8	58.0
77.5°	52.3	51.5	50.7	50.7	49.8	48.2	47.8	46.2	43.7	42.1	39.2
80°	34.3	33.9	33.1	32.3	31.8	31.5	31.0	29.4	26.9	25.8	23.3
82.5°	18.8	18.4	18.4	18.0	16.8	16.8	16.3	14.7	13.5	12.7	11.4
85°	6.5	6.5	6.5	6.2	6.2	6.2	5.7	5.4	4.9	4.5	3.7
87.5°	0.8	0.4	0.8	0.4	0.8	0.4	0.4	0.4	0.4	0.4	0.4
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°	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8
2.5°	1063.5	1062.6	1062.2	1061.8	1061.4	1061.0	1060.5	1059.7	1059.4	1058.9	1058.1
5°	1063.5	1061.8	1061.0	1059.7	1058.9	1058.1	1056.9	1055.7	1054.5	1053.2	1052.0
7.5°	1061.8	1059.4	1057.7	1055.3	1054.5	1053.2	1050.8	1049.1	1047.1	1044.7	1041.8
10°	1057.7	1054.8	1051.6	1048.3	1047.1	1045.0	1041.8	1039.0	1035.7	1032.4	1029.5
12.5°	1051.2	1046.7	1042.6	1038.2	1035.7	1033.6	1029.2	1025.1	1021.0	1017.3	1012.4
15°	1041.4	1036.1	1030.8	1024.6	1021.8	1019.4	1012.8	1007.9	1001.3	996.4	991.6
17.5°	1025.5	1017.3	1010.8	1003.0	998.9	996.1	990.4	982.6	976.5	971.2	965.4
20°	998.1	990.4	981.4	972.8	968.3	964.6	956.5	948.3	942.1	936.4	930.4
22.5°	962.2	952.4	945.9	935.3	931.5	927.1	917.2	909.9	903.0	897.3	891.5
25°	918.5	909.9	900.9	891.1	886.7	881.3	873.1	865.3	860.9	854.4	847.4
27.5°	868.2	861.3	850.3	841.7	837.2	833.2	825.4	818.4	811.8	807.4	800.9
30°	815.1	806.9	797.2	788.2	785.7	780.8	773.9	768.6	761.6	758.8	755.9
32.5°	756.7	747.4	740.0	734.3	729.4	725.3	721.6	713.0	711.8	704.5	703.7
35°	693.1	689.0	682.0	677.1	673.0	670.1	664.1	660.0	655.4	654.3	651.4
37.5°	633.0	628.1	621.5	617.1	614.2	613.8	609.3	606.8	603.6	601.9	598.7
40°	570.1	568.0	562.3	561.5	557.1	556.6	554.2	551.4	548.5	548.5	548.9
42.5°	512.1	509.6	507.2	504.4	501.9	501.9	500.7	499.9	499.0	497.9	499.9
45°	457.8	454.5	452.9	450.1	451.3	448.8	448.0	448.0	446.8	446.4	449.3
47.5°	407.2	403.5	401.8	401.0	401.0	401.5	397.8	399.0	398.6	399.4	400.7
50°	361.0	357.8	355.3	355.3	355.7	354.1	352.4	353.7	352.4	353.2	356.1
52.5°	318.2	314.9	313.6	313.6	311.2	310.8	311.6	310.0	310.4	310.8	312.4
55°	278.5	276.4	274.5	272.4	272.8	272.0	270.4	269.9	270.7	271.2	273.2
57.5°	243.0	240.1	237.3	236.5	235.6	235.6	233.6	233.2	234.0	231.9	231.9
60°	209.1	207.4	203.8	202.6	202.6	200.6	198.9	199.7	197.7	197.3	197.7
62.5°	177.6	176.4	174.0	171.5	170.7	169.9	167.8	167.0	166.2	164.6	162.1
65°	150.3	147.4	144.6	142.9	141.7	139.6	138.5	136.8	134.4	133.6	131.1
67.5°	122.9	120.0	117.2	116.0	114.8	113.5	111.5	109.4	106.6	103.4	100.5
70°	98.8	95.1	93.5	90.2	89.4	87.8	85.0	82.9	80.1	76.3	73.5
72.5°	75.5	73.1	70.6	67.8	65.7	64.6	62.1	58.8	55.6	53.5	50.7
75°	54.3	53.1	49.8	46.5	45.7	44.1	41.3	39.2	36.7	33.5	31.0
77.5°	36.7	34.3	32.3	29.4	28.6	26.9	25.3	23.3	21.7	19.6	18.0
80°	21.7	19.6	18.4	16.3	15.5	14.7	13.5	11.9	10.6	9.8	9.4
82.5°	10.6	9.0	8.6	7.3	7.0	6.5	5.7	5.4	4.5	4.5	4.5
85°	3.7	2.9	2.9	2.4	2.1	2.1	2.1	2.1	2.1	2.1	2.1
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.4
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8
2.5°	1057.7	1057.3	1056.9	1056.5	1056.5	1056.1	1056.1	1055.7	1055.7	1055.3	1055.3
5°	1050.4	1049.1	1048.3	1047.5	1047.5	1046.3	1045.5	1044.7	1044.2	1044.2	1043.4
7.5°	1040.1	1038.5	1036.9	1035.7	1035.3	1033.3	1031.6	1031.6	1030.0	1029.2	1028.4
10°	1026.7	1023.8	1021.4	1020.2	1018.5	1017.3	1015.2	1014.0	1012.8	1010.8	1010.3
12.5°	1008.3	1006.2	1002.6	1001.0	1000.2	997.7	994.5	992.8	992.4	990.7	989.6
15°	987.5	983.0	979.8	977.7	977.7	973.6	972.0	969.5	967.9	966.6	966.3
17.5°	960.5	956.0	952.7	949.9	949.1	945.9	943.4	942.6	940.5	941.3	939.3
20°	925.8	922.2	919.7	916.0	916.0	913.9	913.1	911.1	910.3	909.5	910.3
22.5°	888.6	884.2	880.1	879.7	879.7	876.8	876.4	876.0	874.4	875.6	875.2
25°	844.9	841.7	839.2	838.9	838.9	837.2	835.6	836.4	837.6	837.2	838.4
27.5°	799.6	796.3	795.5	795.2	794.4	793.9	794.7	794.7	796.0	797.6	799.2
30°	750.6	749.8	748.6	748.2	747.4	749.4	750.2	751.5	751.0	753.5	755.1
32.5°	701.6	700.0	699.6	700.4	701.6	701.2	703.7	704.5	705.3	708.1	709.4
35°	652.2	651.8	651.0	651.0	651.4	654.6	654.6	657.5	659.2	660.0	663.2
37.5°	599.1	600.8	601.6	602.8	603.2	604.4	605.2	608.1	609.7	611.4	613.0
40°	550.5	549.7	553.3	550.9	551.7	555.4	557.1	556.6	559.1	561.5	563.1
42.5°	498.7	499.9	500.7	501.5	503.6	503.9	506.0	508.8	509.6	512.6	513.4
45°	448.5	448.8	450.4	452.1	453.3	456.6	457.4	458.6	461.0	461.0	462.3
47.5°	401.0	402.7	402.7	405.1	407.2	406.7	409.6	410.5	410.0	412.1	412.9
50°	355.7	358.1	357.8	359.4	360.2	360.6	363.0	363.9	362.2	364.3	364.7
52.5°	312.4	313.6	315.3	315.7	314.9	316.9	316.1	317.7	317.3	319.0	317.3
55°	272.8	272.4	272.4	273.2	272.4	273.2	274.0	272.4	271.2	272.8	272.4
57.5°	233.2	233.2	232.4	233.6	232.4	231.1	230.8	229.5	228.3	228.3	227.8
60°	196.0	195.2	193.6	193.2	193.2	191.1	190.3	188.7	188.7	187.1	185.4
62.5°	161.3	159.3	158.0	158.0	157.2	155.2	151.5	149.1	148.2	145.8	145.4
65°	128.7	126.6	125.4	122.9	120.9	120.0	116.4	113.5	112.3	109.9	110.3
67.5°	98.8	95.6	91.8	90.2	89.0	86.1	85.0	82.9	81.7	81.7	81.7
70°	71.1	68.2	64.6	63.3	62.5	60.0	58.8	58.4	59.7	59.2	59.7
72.5°	47.8	44.9	43.2	42.4	41.6	40.4	41.3	41.6	40.8	41.3	41.6
75°	29.0	28.2	26.9	26.6	26.6	26.9	26.6	26.6	26.9	26.9	27.4
77.5°	16.8	16.0	16.0	15.5	16.3	16.0	16.0	16.0	16.3	16.3	16.3
80°	9.0	9.0	9.0	9.0	9.4	9.0	9.4	9.4	9.4	9.4	9.4
82.5°	4.5	4.5	4.5	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.5
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
87.5°	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4
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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CATALOG NUMBER: LX4C30D010 EX4C309830 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8
2.5°	1054.5	1054.5	1054.5	1053.7	1054.0	1054.0	1053.7	1053.7
5°	1043.1	1042.6	1041.8	1041.8	1041.0	1041.8	1041.4	1041.8
7.5°	1027.6	1027.6	1026.3	1026.3	1025.9	1025.5	1025.1	1025.5
10°	1009.1	1009.1	1008.3	1007.9	1008.3	1006.7	1006.7	1006.2
12.5°	988.7	987.9	987.1	987.5	987.1	985.8	985.5	985.8
15°	965.0	963.8	964.2	963.0	963.0	962.5	963.4	963.4
17.5°	938.9	938.1	937.2	937.7	936.9	937.2	936.9	936.4
20°	909.9	909.5	909.5	907.9	908.2	907.9	908.2	909.5
22.5°	876.4	876.0	876.4	875.2	876.0	876.0	877.2	877.2
25°	839.7	839.2	840.0	840.5	840.9	842.1	840.9	841.3
27.5°	798.8	800.1	801.2	801.7	803.3	802.1	801.2	802.5
30°	757.5	757.5	757.2	758.8	760.0	761.3	759.2	759.2
32.5°	710.2	712.2	712.2	712.7	713.8	713.8	713.8	715.5
35°	664.9	666.0	666.5	664.9	665.7	665.2	668.1	668.1
37.5°	614.2	614.2	614.6	617.5	617.5	616.3	617.1	617.1
40°	566.0	566.4	564.8	565.6	567.7	566.9	567.7	568.5
42.5°	513.4	516.2	514.5	515.4	515.0	515.4	515.8	515.8
45°	463.1	464.0	464.0	464.3	465.1	465.9	463.5	463.1
47.5°	414.1	414.5	415.7	413.7	416.2	413.7	416.2	413.3
50°	364.7	366.3	365.1	365.9	364.7	364.7	364.3	363.9
52.5°	317.7	317.3	317.3	316.9	316.9	317.7	316.9	318.2
55°	270.7	271.2	270.4	269.9	269.6	270.7	269.6	268.7
57.5°	226.2	227.0	225.4	226.2	223.4	224.6	225.0	225.4
60°	185.0	183.8	183.8	182.2	182.2	183.3	181.7	181.7
62.5°	143.3	144.2	142.9	144.6	144.6	146.2	145.4	146.2
65°	109.9	110.3	110.7	110.7	110.7	113.2	112.3	111.1
67.5°	82.9	83.3	83.7	83.3	84.5	83.7	83.7	84.1
70°	60.0	60.5	60.8	60.8	60.5	60.8	60.8	60.8
72.5°	41.6	42.1	41.6	42.1	42.4	42.1	42.1	42.4
75°	27.4	27.4	26.9	26.9	26.9	26.9	27.4	26.9
77.5°	16.0	16.3	16.0	16.3	16.3	16.3	16.3	16.3
80°	9.4	9.4	9.4	9.0	9.4	9.4	9.4	9.0
82.5°	4.9	4.9	4.5	4.5	4.9	4.9	4.9	4.9
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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)