

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: P857378

Luminaire Tested: **LX4C25D010 EX4C259035 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P857378
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: LX4C25D010 EX4C259035 4LBLWWH
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

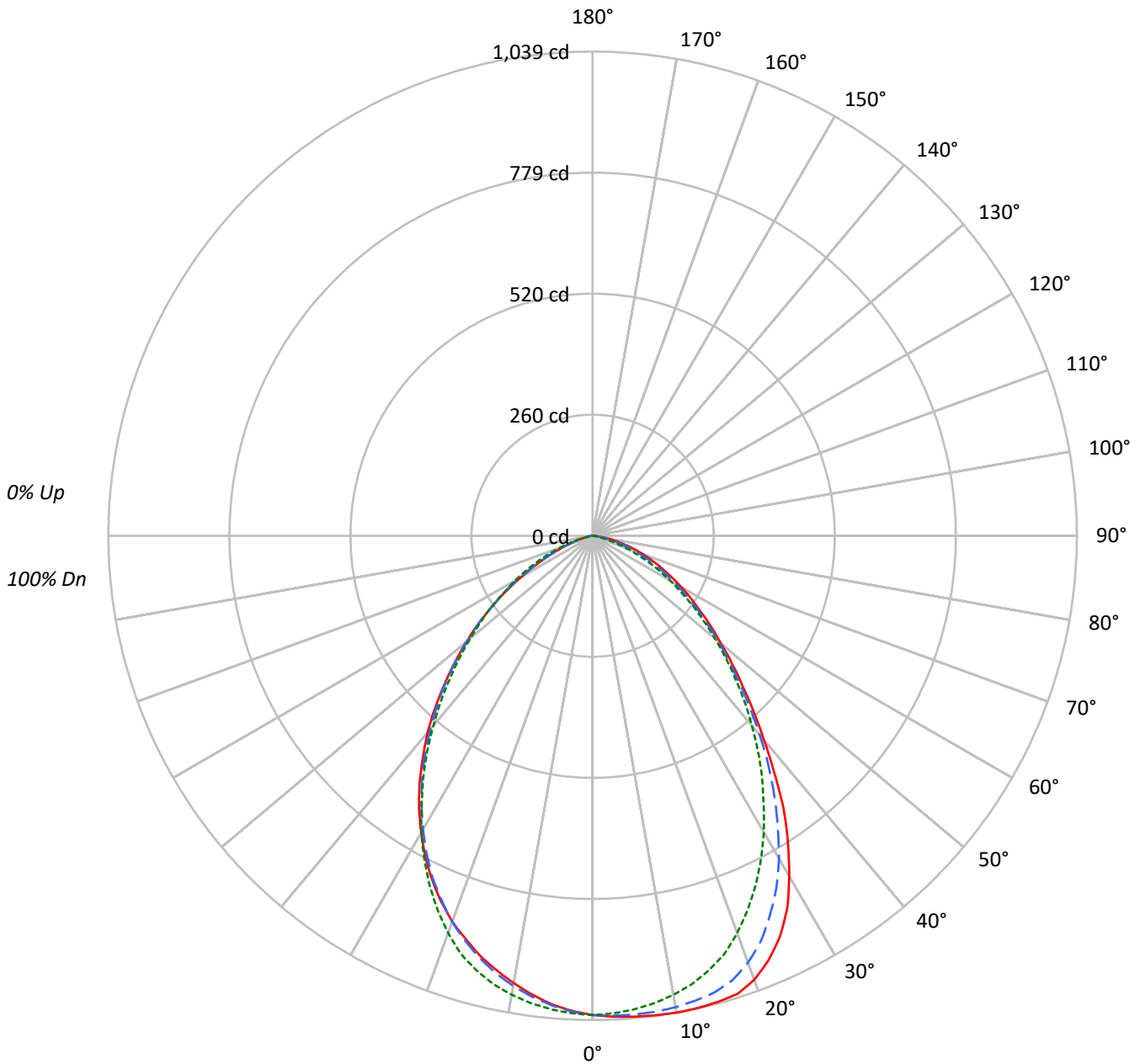
Lumens per Lamp: N/A
Luminaire Lumens: 1938.0 lumens
Efficiency: N/A
Efficacy: 61.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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				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	0
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	49	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°	126343	126343	126343
5°	127750	125789	124433
10°	129614	124736	121580
15°	131753	122748	118666
20°	132581	118566	115154
25°	128776	112157	110449
30°	119672	104252	104309
35°	107128	95025	97050
40°	91718	85191	88302
45°	78965	75108	77923
50°	68633	65384	67353
55°	60401	56246	55753
60°	53736	46930	43244
65°	47151	37587	31279
70°	40482	26581	21157
75°	32847	15379	12389
80°	23489	6721	6155
85°	8880	2819	2819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	5.0
10°-20°	274.3	14.2
20°-30°	391.7	20.2
30°-40°	409.8	21.1
40°-50°	343.4	17.7
50°-60°	240.3	12.4
60°-70°	130.9	6.8
70°-80°	45.4	2.3
80°-90°	5.2	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°	763.0	39.4
0°-40°	1172.8	60.5
0°-60°	1756.5	90.6
0°-90°	1938.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1938.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1028	1028	1028	1028	1028	
5°	1036	1031	1020	1011	1009	99
15°	1036	1014	965	937	933	293
25°	950	899	827	811	815	434
35°	714	679	634	638	647	443
45°	454	444	432	446	448	353
55°	282	272	263	263	260	255
65°	162	148	129	109	108	161
75°	69	56	32	26	26	75
85°	6	4	2	2	2	11
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°	1028.4	1028.4	1028.4	1028.4	1028.4	1028.4	1028.4	1028.4	1028.4	1028.4	1028.4
2.5°	1033.1	1031.9	1032.3	1032.3	1032.3	1031.9	1032.3	1031.9	1031.9	1031.5	1030.7
5°	1035.9	1035.1	1035.1	1035.1	1034.7	1034.3	1034.3	1033.9	1033.1	1032.7	1031.1
7.5°	1037.8	1037.1	1037.1	1036.7	1036.3	1035.9	1035.5	1034.3	1033.1	1032.3	1030.3
10°	1039.0	1037.8	1037.8	1037.1	1036.3	1035.9	1035.1	1033.5	1031.9	1029.9	1027.2
12.5°	1038.2	1037.1	1036.7	1035.9	1034.3	1033.5	1032.7	1030.7	1028.0	1025.2	1021.6
15°	1035.9	1035.1	1034.3	1033.1	1031.1	1029.9	1029.1	1026.0	1022.4	1018.5	1014.1
17.5°	1031.1	1029.9	1028.4	1026.8	1024.0	1022.8	1020.8	1016.9	1011.7	1006.2	999.5
20°	1014.1	1013.3	1011.7	1009.0	1004.6	1003.0	1000.3	995.1	988.4	981.7	974.6
22.5°	986.0	984.8	982.5	980.1	976.1	973.4	971.0	963.9	956.4	949.2	942.5
25°	950.0	948.9	945.7	942.5	938.6	933.8	931.4	925.9	918.4	909.3	899.4
27.5°	903.8	899.8	898.6	895.1	889.1	887.5	884.0	876.9	869.7	861.8	853.5
30°	843.6	843.6	841.3	839.7	834.2	832.6	828.6	821.1	817.1	806.1	799.7
32.5°	780.0	779.2	777.2	776.0	772.8	770.1	766.1	762.2	753.5	747.9	739.2
35°	714.3	709.6	710.4	708.0	706.0	702.8	702.4	698.1	690.2	687.0	679.1
37.5°	639.6	637.6	640.3	636.8	634.8	635.2	632.0	629.3	626.1	620.6	619.0
40°	571.9	573.5	573.1	569.9	571.5	569.5	566.4	563.6	562.0	558.5	557.3
42.5°	511.4	509.0	508.2	508.2	508.6	508.6	507.1	505.1	505.1	501.5	498.0
45°	454.5	454.5	453.7	456.0	452.5	452.5	451.3	450.9	449.3	448.5	444.2
47.5°	405.4	405.0	404.6	404.2	403.8	403.8	401.5	399.5	399.1	396.7	394.3
50°	359.1	361.5	360.7	358.7	357.9	358.3	356.8	355.6	355.2	351.2	351.6
52.5°	320.4	320.0	320.8	319.6	317.6	318.0	316.4	314.8	313.3	311.3	309.7
55°	282.0	284.0	283.2	282.0	281.6	280.8	279.6	277.7	277.3	272.9	272.5
57.5°	250.0	249.6	248.8	246.8	246.4	245.2	245.2	243.6	241.3	238.9	236.9
60°	218.7	218.7	217.5	217.1	215.6	215.2	214.8	213.2	210.4	208.4	205.3
62.5°	188.7	189.5	188.7	187.5	186.3	184.7	183.9	182.7	180.4	178.4	175.6
65°	162.2	161.8	161.4	159.8	159.4	157.8	157.4	155.0	152.7	151.1	147.9
67.5°	136.8	135.7	135.7	134.9	134.1	132.9	132.1	129.7	127.0	125.4	122.2
70°	112.7	111.9	111.9	111.9	110.0	108.8	108.4	107.2	103.2	101.6	98.5
72.5°	90.6	90.2	89.8	88.6	87.4	87.4	85.8	83.5	81.5	79.5	77.1
75°	69.2	70.0	69.2	67.6	67.2	66.4	65.3	63.3	61.3	58.9	56.2
77.5°	50.6	49.8	49.0	49.0	48.3	46.7	46.3	44.7	42.3	40.7	38.0
80°	33.2	32.8	32.0	31.2	30.9	30.5	30.1	28.5	26.1	24.9	22.5
82.5°	18.2	17.8	17.8	17.4	16.2	16.2	15.8	14.2	13.1	12.3	11.1
85°	6.3	6.3	6.3	5.9	5.9	5.9	5.5	5.1	4.7	4.4	3.6
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°	1028.4	1028.4	1028.4	1028.4	1028.4	1028.4	1028.4	1028.4	1028.4	1028.4	1028.4
2.5°	1029.9	1029.1	1028.7	1028.4	1028.0	1027.6	1027.2	1026.4	1026.0	1025.6	1024.8
5°	1029.9	1028.4	1027.6	1026.4	1025.6	1024.8	1023.6	1022.4	1021.2	1020.0	1018.9
7.5°	1028.4	1026.0	1024.4	1022.0	1021.2	1020.0	1017.7	1016.1	1014.1	1011.7	1009.0
10°	1024.4	1021.6	1018.5	1015.3	1014.1	1012.1	1009.0	1006.2	1003.0	999.9	997.1
12.5°	1018.1	1013.7	1009.8	1005.4	1003.0	1001.1	996.7	992.8	988.8	985.2	980.5
15°	1008.6	1003.4	998.3	992.4	989.6	987.2	980.9	976.1	969.8	965.1	960.3
17.5°	993.1	985.2	978.9	971.4	967.4	964.7	959.1	951.6	945.7	940.5	935.0
20°	966.6	959.1	950.4	942.1	937.8	934.2	926.3	918.4	912.5	906.9	901.0
22.5°	931.8	922.4	916.0	905.7	902.2	897.8	888.3	881.2	874.5	869.0	863.4
25°	889.5	881.2	872.5	863.0	858.7	853.5	845.6	838.1	833.8	827.4	820.7
27.5°	840.9	834.2	823.5	815.2	810.8	806.9	799.3	792.6	786.3	781.9	775.6
30°	789.5	781.5	772.1	763.4	761.0	756.2	749.5	744.4	737.6	734.9	732.1
32.5°	732.9	723.8	716.7	711.1	706.4	702.4	698.9	690.6	689.4	682.3	681.5
35°	671.2	667.2	660.5	655.8	651.8	649.0	643.1	639.2	634.8	633.6	630.9
37.5°	613.1	608.3	602.0	597.6	594.9	594.5	590.1	587.7	584.6	583.0	579.8
40°	552.1	550.2	544.6	543.8	539.5	539.1	536.7	534.0	531.2	531.2	531.6
42.5°	496.0	493.6	491.2	488.5	486.1	486.1	484.9	484.1	483.3	482.1	484.1
45°	443.4	440.2	438.6	435.9	437.0	434.7	433.9	433.9	432.7	432.3	435.1
47.5°	394.3	390.8	389.2	388.4	388.4	388.8	385.2	386.4	386.0	386.8	388.0
50°	349.6	346.5	344.1	344.1	344.5	342.9	341.3	342.5	341.3	342.1	344.9
52.5°	308.1	304.9	303.8	303.8	301.4	301.0	301.8	300.2	300.6	301.0	302.6
55°	269.7	267.8	265.8	263.8	264.2	263.4	261.8	261.4	262.2	262.6	264.6
57.5°	235.3	232.6	229.8	229.0	228.2	228.2	226.2	225.8	226.6	224.7	224.7
60°	202.5	200.9	197.4	196.2	196.2	194.2	192.6	193.4	191.4	191.0	191.4
62.5°	172.1	170.9	168.5	166.1	165.3	164.5	162.6	161.8	161.0	159.4	157.0
65°	145.6	142.8	140.0	138.4	137.2	135.3	134.1	132.5	130.1	129.3	127.0
67.5°	119.1	116.3	113.5	112.3	111.1	110.0	108.0	106.0	103.2	100.1	97.3
70°	95.7	92.2	90.6	87.4	86.6	85.0	82.3	80.3	77.5	74.0	71.2
72.5°	73.2	70.8	68.4	65.7	63.7	62.5	60.1	57.0	53.8	51.8	49.0
75°	52.6	51.4	48.3	45.1	44.3	42.7	39.9	38.0	35.6	32.4	30.1
77.5°	35.6	33.2	31.2	28.5	27.7	26.1	24.5	22.5	21.0	19.0	17.4
80°	21.0	19.0	17.8	15.8	15.0	14.2	13.1	11.5	10.3	9.5	9.1
82.5°	10.3	8.7	8.3	7.1	6.7	6.3	5.5	5.1	4.4	4.4	4.4
85°	3.6	2.8	2.8	2.4	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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°	1028.4	1028.4	1028.4	1028.4	1028.4	1028.4	1028.4	1028.4	1028.4	1028.4	1028.4
2.5°	1024.4	1024.0	1023.6	1023.2	1023.2	1022.8	1022.8	1022.4	1022.4	1022.0	1022.0
5°	1017.3	1016.1	1015.3	1014.5	1014.5	1013.3	1012.5	1011.7	1011.3	1011.3	1010.6
7.5°	1007.4	1005.8	1004.2	1003.0	1002.6	1000.7	999.1	999.1	997.5	996.7	995.9
10°	994.3	991.6	989.2	988.0	986.4	985.2	983.3	982.1	980.9	978.9	978.5
12.5°	976.5	974.6	971.0	969.4	968.6	966.3	963.1	961.5	961.1	959.5	958.3
15°	956.4	952.0	948.9	946.9	946.9	942.9	941.3	939.0	937.4	936.2	935.8
17.5°	930.3	925.9	922.7	920.0	919.2	916.0	913.6	912.9	910.9	911.7	909.7
20°	896.6	893.1	890.7	887.1	887.1	885.2	884.4	882.4	881.6	880.8	881.6
22.5°	860.6	856.3	852.3	851.9	851.9	849.2	848.8	848.4	846.8	848.0	847.6
25°	818.3	815.2	812.8	812.4	812.4	810.8	809.2	810.0	811.2	810.8	812.0
27.5°	774.4	771.3	770.5	770.1	769.3	768.9	769.7	769.7	770.9	772.4	774.0
30°	727.0	726.2	725.0	724.6	723.8	725.8	726.6	727.8	727.4	729.7	731.3
32.5°	679.5	677.9	677.5	678.3	679.5	679.1	681.5	682.3	683.1	685.8	687.0
35°	631.6	631.2	630.5	630.5	630.9	634.0	634.0	636.8	638.4	639.2	642.3
37.5°	580.2	581.8	582.6	583.8	584.2	585.4	586.2	588.9	590.5	592.1	593.7
40°	533.2	532.4	535.9	533.6	534.3	537.9	539.5	539.1	541.5	543.8	545.4
42.5°	482.9	484.1	484.9	485.7	487.7	488.1	490.0	492.8	493.6	496.4	497.2
45°	434.3	434.7	436.3	437.8	439.0	442.2	443.0	444.2	446.5	446.5	447.7
47.5°	388.4	390.0	390.0	392.4	394.3	393.9	396.7	397.5	397.1	399.1	399.9
50°	344.5	346.9	346.5	348.1	348.8	349.2	351.6	352.4	350.8	352.8	353.2
52.5°	302.6	303.8	305.3	305.7	304.9	306.9	306.1	307.7	307.3	308.9	307.3
55°	264.2	263.8	263.8	264.6	263.8	264.6	265.4	263.8	262.6	264.2	263.8
57.5°	225.8	225.8	225.1	226.2	225.1	223.9	223.5	222.3	221.1	221.1	220.7
60°	189.8	189.1	187.5	187.1	187.1	185.1	184.3	182.7	182.7	181.1	179.6
62.5°	156.2	154.3	153.1	153.1	152.3	150.3	146.7	144.4	143.6	141.2	140.8
65°	124.6	122.6	121.4	119.1	117.1	116.3	112.7	110.0	108.8	106.4	106.8
67.5°	95.7	92.6	89.0	87.4	86.2	83.5	82.3	80.3	79.1	79.1	79.1
70°	68.8	66.1	62.5	61.3	60.5	58.1	57.0	56.6	57.7	57.4	57.7
72.5°	46.3	43.5	41.9	41.1	40.3	39.2	39.9	40.3	39.6	39.9	40.3
75°	28.1	27.3	26.1	25.7	25.7	26.1	25.7	25.7	26.1	26.1	26.5
77.5°	16.2	15.4	15.4	15.0	15.8	15.4	15.4	15.4	15.8	15.8	15.8
80°	8.7	8.7	8.7	8.7	9.1	8.7	9.1	9.1	9.1	9.1	9.1
82.5°	4.4	4.4	4.4	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.4
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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: LX4C25D010 EX4C259035 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1028.4	1028.4	1028.4	1028.4	1028.4	1028.4	1028.4	1028.4
2.5°	1021.2	1021.2	1021.2	1020.4	1020.8	1020.8	1020.4	1020.4
5°	1010.2	1009.8	1009.0	1009.0	1008.2	1009.0	1008.6	1009.0
7.5°	995.1	995.1	993.9	993.9	993.5	993.1	992.8	993.1
10°	977.3	977.3	976.5	976.1	976.5	975.0	975.0	974.6
12.5°	957.6	956.8	956.0	956.4	956.0	954.8	954.4	954.8
15°	934.6	933.4	933.8	932.6	932.6	932.2	933.0	933.0
17.5°	909.3	908.5	907.7	908.1	907.3	907.7	907.3	906.9
20°	881.2	880.8	880.8	879.2	879.6	879.2	879.6	880.8
22.5°	848.8	848.4	848.8	847.6	848.4	848.4	849.6	849.6
25°	813.2	812.8	813.6	814.0	814.4	815.6	814.4	814.8
27.5°	773.6	774.8	776.0	776.4	778.0	776.8	776.0	777.2
30°	733.7	733.7	733.3	734.9	736.1	737.2	735.3	735.3
32.5°	687.8	689.8	689.8	690.2	691.4	691.4	691.4	692.9
35°	643.9	645.1	645.5	643.9	644.7	644.3	647.1	647.1
37.5°	594.9	594.9	595.3	598.0	598.0	596.8	597.6	597.6
40°	548.2	548.6	547.0	547.8	549.8	549.0	549.8	550.6
42.5°	497.2	499.9	498.4	499.1	498.7	499.1	499.5	499.5
45°	448.5	449.3	449.3	449.7	450.5	451.3	448.9	448.5
47.5°	401.1	401.5	402.6	400.7	403.0	400.7	403.0	400.3
50°	353.2	354.8	353.6	354.4	353.2	353.2	352.8	352.4
52.5°	307.7	307.3	307.3	306.9	306.9	307.7	306.9	308.1
55°	262.2	262.6	261.8	261.4	261.0	262.2	261.0	260.3
57.5°	219.1	219.9	218.3	219.1	216.3	217.5	217.9	218.3
60°	179.2	178.0	178.0	176.4	176.4	177.6	176.0	176.0
62.5°	138.8	139.6	138.4	140.0	140.0	141.6	140.8	141.6
65°	106.4	106.8	107.2	107.2	107.2	109.6	108.8	107.6
67.5°	80.3	80.7	81.1	80.7	81.9	81.1	81.1	81.5
70°	58.1	58.5	58.9	58.9	58.5	58.9	58.9	58.9
72.5°	40.3	40.7	40.3	40.7	41.1	40.7	40.7	41.1
75°	26.5	26.5	26.1	26.1	26.1	26.1	26.5	26.1
77.5°	15.4	15.8	15.4	15.8	15.8	15.8	15.8	15.8
80°	9.1	9.1	9.1	8.7	9.1	9.1	9.1	8.7
82.5°	4.7	4.7	4.4	4.4	4.7	4.7	4.7	4.7
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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)