

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: P857398

Luminaire Tested: **LX4C25D010 EX4C259040 4LBLWW\***

Issue Date: 2/9/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P857398  
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: LX4C25D010 EX4C259040 4LBLWW\*  
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LRLWW TRIM WITH \* FINISH  
Light Source: -  
Ballast/Driver: -

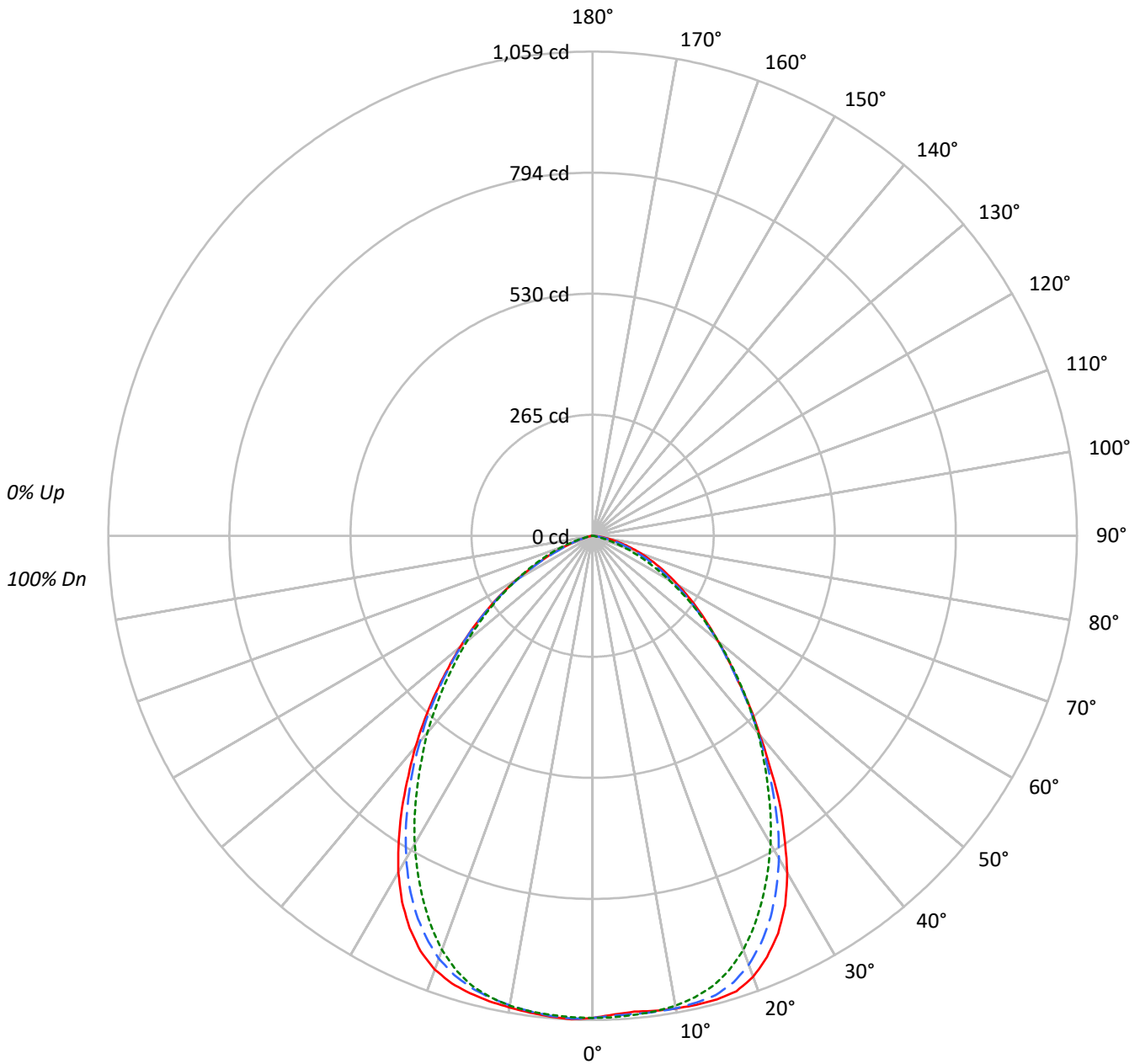
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2022.0 lumens  
Efficiency: N/A  
Efficacy: 64.2 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): 31.5  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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	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°	129574	129574	129574
5°	128848	129723	130216
10°	130974	130188	130674
15°	133534	129604	131779
20°	134216	125979	131980
25°	130077	118962	128315
30°	120736	110395	120509
35°	106918	100139	108928
40°	91140	90194	96609
45°	78305	79191	84160
50°	68347	68500	72131
55°	60401	57852	59801
60°	52925	47200	47004
65°	46860	36599	32587
70°	39979	25180	19361
75°	32325	13528	8829
80°	22144	3396	2264
85°	6766	1128	1128



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.2	5.0
10°-20°	290.2	14.4
20°-30°	419.3	20.7
30°-40°	433.4	21.4
40°-50°	358.1	17.7
50°-60°	247.2	12.2
60°-70°	129.4	6.4
70°-80°	40.7	2.0
80°-90°	3.5	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°	809.7	40.0
0°-40°	1243.1	61.5
0°-60°	1848.4	91.4
0°-90°	2022.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2022.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1055	1055	1055	1055	1055	
5°	1045	1050	1052	1054	1056	100
15°	1050	1040	1019	1024	1036	296
25°	960	921	878	913	947	438
35°	713	689	668	703	726	442
45°	451	449	456	477	484	351
55°	282	273	270	278	279	253
65°	161	146	126	105	112	160
75°	68	54	28	19	19	73
85°	5	2	1	1	1	10
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°	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7
2.5°	1047.9	1048.3	1048.3	1049.1	1049.1	1049.1	1049.5	1049.5	1049.9	1050.3	1050.7
5°	1044.8	1044.8	1045.6	1046.0	1046.8	1047.1	1047.9	1048.3	1049.1	1049.5	1049.9
7.5°	1047.9	1047.9	1048.3	1048.7	1048.7	1049.1	1049.1	1049.5	1049.9	1050.3	1050.3
10°	1049.9	1049.9	1049.9	1049.9	1050.3	1050.3	1050.3	1049.9	1049.9	1049.9	1049.5
12.5°	1050.7	1050.7	1050.3	1049.9	1050.3	1049.9	1049.9	1048.7	1047.9	1047.1	1046.0
15°	1049.9	1049.9	1049.5	1049.1	1048.7	1047.9	1047.5	1045.6	1044.0	1041.6	1040.0
17.5°	1044.8	1044.0	1043.2	1042.4	1040.8	1039.6	1038.8	1035.3	1032.5	1028.5	1024.2
20°	1026.6	1025.8	1024.6	1022.6	1020.6	1019.0	1016.7	1011.5	1008.7	1002.8	998.4
22.5°	996.8	996.1	996.5	992.9	988.9	986.6	985.0	980.6	975.9	968.3	963.6
25°	959.6	957.2	957.2	951.7	949.7	948.1	946.2	941.0	933.9	927.1	920.8
27.5°	911.3	908.1	906.6	905.8	901.0	897.4	894.7	890.7	884.8	878.8	870.1
30°	851.1	850.7	848.7	845.2	841.6	840.0	836.8	830.1	824.6	820.2	814.7
32.5°	780.2	779.8	779.8	779.8	777.4	777.0	772.3	768.7	764.4	757.6	754.1
35°	712.9	712.5	712.9	706.9	705.4	704.2	703.8	701.4	695.5	692.3	689.1
37.5°	636.8	638.0	637.2	635.7	637.6	634.1	636.8	631.7	629.3	628.5	625.0
40°	568.3	571.5	568.3	568.7	570.7	567.1	567.1	566.3	564.8	564.0	563.2
42.5°	509.7	505.8	508.1	506.1	508.1	506.9	505.0	506.1	506.5	505.0	504.6
45°	450.7	451.5	452.3	451.1	451.1	449.9	453.1	451.1	451.1	451.5	448.7
47.5°	402.8	401.6	402.4	401.6	402.0	401.2	402.0	402.4	401.6	401.6	399.2
50°	357.6	356.8	359.6	357.2	357.2	356.8	357.2	356.4	355.3	355.3	356.0
52.5°	318.4	316.8	316.4	318.4	315.6	315.6	316.0	315.3	313.7	312.9	310.9
55°	282.0	281.6	282.0	280.4	279.6	279.6	277.6	276.8	276.4	274.5	273.3
57.5°	247.9	246.7	247.1	246.7	245.2	244.8	243.2	243.2	241.6	240.0	238.0
60°	215.4	215.4	216.6	215.1	213.9	213.1	212.3	211.5	208.7	205.9	203.6
62.5°	186.5	186.9	186.5	185.3	184.6	183.8	183.0	180.6	178.2	176.6	173.9
65°	161.2	160.8	159.6	158.8	156.8	156.8	155.3	154.1	151.3	148.9	146.1
67.5°	135.1	134.3	134.3	134.3	131.9	131.5	130.7	128.3	125.9	122.8	120.4
70°	111.3	112.1	110.9	109.7	108.5	108.1	106.9	104.6	101.8	98.6	96.6
72.5°	88.7	89.5	88.3	87.9	85.5	84.8	84.4	82.4	79.2	77.2	74.1
75°	68.1	68.5	67.7	66.9	65.3	65.0	63.0	61.4	59.4	56.2	53.5
77.5°	49.1	48.3	48.3	46.7	45.1	45.1	44.8	42.4	39.6	37.2	34.9
80°	31.3	30.9	29.7	28.9	27.7	27.3	26.9	25.0	23.0	21.4	19.8
82.5°	15.8	15.4	15.0	14.7	13.9	13.1	13.5	11.9	11.1	9.5	8.3
85°	4.8	5.1	5.1	4.8	4.4	4.4	4.4	4.0	3.2	2.8	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



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7
2.5°	1051.1	1051.5	1051.9	1052.3	1052.3	1052.7	1053.1	1053.5	1053.9	1053.9	1054.3
5°	1050.3	1051.1	1051.1	1051.5	1051.5	1051.5	1051.9	1051.9	1051.9	1051.9	1052.3
7.5°	1050.7	1050.7	1050.7	1050.3	1050.3	1049.9	1049.9	1049.9	1049.1	1049.1	1049.1
10°	1048.7	1048.3	1047.9	1047.1	1046.8	1046.4	1045.6	1044.8	1044.0	1043.6	1042.8
12.5°	1044.8	1043.2	1041.6	1040.0	1039.2	1038.8	1037.2	1036.1	1034.9	1033.7	1032.9
15°	1036.8	1034.5	1031.7	1028.5	1027.7	1026.9	1024.2	1021.8	1020.2	1019.0	1017.0
17.5°	1021.0	1016.3	1013.1	1008.3	1006.4	1005.6	1001.2	998.8	996.1	995.3	993.7
20°	992.9	988.5	982.6	978.2	975.9	973.5	969.9	966.7	963.6	963.6	961.6
22.5°	957.6	952.1	944.6	939.0	938.6	933.9	930.7	927.1	926.0	923.6	923.6
25°	913.3	908.5	900.2	895.5	893.1	891.9	886.7	882.0	879.6	877.6	879.2
27.5°	864.2	857.0	850.7	844.8	842.8	840.4	835.7	833.7	829.3	828.9	828.5
30°	807.9	800.8	794.5	791.7	787.7	785.8	782.2	779.8	778.2	778.2	777.4
32.5°	748.9	742.6	739.4	733.5	731.5	728.7	726.3	724.0	724.8	724.0	724.4
35°	685.2	683.6	677.6	674.1	674.1	673.7	669.7	668.1	667.3	667.7	669.7
37.5°	624.6	619.8	615.9	613.5	615.5	613.1	612.7	612.7	615.1	613.5	616.6
40°	560.0	559.6	558.0	558.8	559.2	556.4	557.2	557.6	559.2	562.4	562.8
42.5°	503.8	503.4	503.4	503.4	502.6	501.0	502.6	505.4	505.0	507.3	509.3
45°	449.5	448.7	450.3	449.1	451.5	452.3	451.1	451.9	454.3	455.8	459.0
47.5°	400.0	400.0	400.4	401.2	398.8	400.8	401.6	403.2	404.4	405.2	406.7
50°	354.1	354.1	353.3	353.3	353.3	354.5	352.9	354.9	355.3	358.4	360.4
52.5°	311.7	309.7	310.9	310.1	308.5	307.7	308.5	308.9	311.3	312.1	314.5
55°	271.3	271.3	268.1	267.3	268.5	268.1	267.7	267.7	268.9	270.1	272.1
57.5°	235.6	233.3	230.9	230.5	229.3	229.7	229.7	229.3	228.5	228.9	229.3
60°	202.0	200.4	196.8	196.8	196.4	196.0	194.1	193.7	191.7	192.1	190.5
62.5°	171.1	170.3	165.5	164.0	164.0	162.8	160.8	160.4	157.6	157.6	156.0
65°	143.4	141.0	138.2	135.4	135.4	133.9	132.7	129.1	127.1	125.9	123.6
67.5°	118.0	114.5	111.7	109.3	107.7	107.3	104.6	102.2	99.0	97.0	93.5
70°	93.5	90.7	87.9	85.5	84.0	82.4	79.6	76.0	73.7	70.1	67.7
72.5°	70.5	68.1	65.7	62.6	60.6	59.4	56.6	53.5	49.5	47.1	44.0
75°	50.7	47.9	44.8	42.0	40.8	39.6	36.4	34.1	31.3	28.5	25.3
77.5°	32.9	29.7	27.3	24.2	23.8	23.0	19.8	17.4	15.4	13.9	11.9
80°	17.4	15.8	13.9	11.9	11.1	9.9	8.3	7.1	5.9	4.8	4.0
82.5°	7.5	6.3	5.1	4.4	4.0	3.6	2.8	2.4	2.0	2.0	1.6
85°	2.0	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



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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7
2.5°	1054.7	1055.1	1055.5	1055.5	1055.9	1056.3	1056.3	1056.7	1057.0	1057.4	1057.4
5°	1052.7	1052.7	1052.7	1053.1	1053.1	1053.1	1053.1	1053.9	1053.9	1054.3	1054.7
7.5°	1048.7	1048.7	1048.7	1048.7	1048.3	1048.7	1048.3	1048.3	1049.1	1049.5	1049.9
10°	1042.4	1042.0	1042.0	1041.6	1041.6	1041.6	1042.0	1042.4	1042.8	1043.2	1044.4
12.5°	1032.5	1032.1	1032.1	1031.7	1031.7	1032.1	1032.5	1033.3	1034.9	1035.7	1037.2
15°	1016.7	1016.3	1016.7	1017.0	1017.8	1019.0	1020.2	1021.4	1023.8	1025.8	1027.7
17.5°	993.7	994.1	994.5	995.3	996.5	998.0	1001.2	1004.4	1007.1	1010.3	1013.5
20°	962.0	963.6	964.0	966.7	967.5	971.1	974.7	979.4	983.8	987.7	992.1
22.5°	924.0	925.2	926.7	929.9	931.9	936.7	941.0	946.6	951.3	956.5	962.8
25°	880.8	881.2	886.0	886.0	890.7	894.7	899.8	905.8	912.9	919.6	924.0
27.5°	831.7	833.7	837.2	838.8	842.4	848.7	853.1	860.2	867.3	873.3	878.0
30°	780.2	781.8	787.7	788.5	791.3	796.8	802.8	809.5	815.1	821.8	826.2
32.5°	726.0	730.3	733.9	736.6	737.4	745.8	748.9	753.7	760.0	766.7	771.1
35°	673.3	675.3	680.4	682.0	684.4	689.1	695.5	699.4	702.6	706.9	712.1
37.5°	617.4	623.4	624.6	629.3	630.1	634.5	637.6	642.4	646.3	650.3	651.1
40°	565.6	567.5	571.9	573.1	573.9	579.8	583.8	585.0	586.9	590.5	595.3
42.5°	512.9	514.9	519.6	518.4	522.0	524.8	526.7	531.5	533.5	534.7	534.7
45°	461.0	461.8	465.0	466.5	468.5	470.1	473.7	476.0	476.8	480.4	481.6
47.5°	411.5	412.3	414.7	417.4	416.6	418.6	422.6	423.8	424.2	426.5	427.7
50°	362.8	364.8	367.9	367.1	369.5	370.7	374.3	375.1	375.1	375.5	375.8
52.5°	317.2	318.8	319.6	320.4	321.6	323.6	325.2	324.4	325.9	327.5	326.3
55°	272.1	273.3	275.3	276.0	276.0	276.4	275.6	279.2	277.6	277.2	277.6
57.5°	230.9	229.3	228.9	230.9	231.7	231.3	230.1	231.7	231.7	230.9	229.7
60°	190.9	189.7	189.3	189.7	188.1	186.9	187.7	186.9	185.0	184.2	184.6
62.5°	154.5	153.3	150.1	150.1	149.3	148.9	145.7	146.1	144.6	142.2	143.0
65°	120.8	117.6	116.0	115.6	112.9	110.5	109.7	106.9	104.6	104.2	104.6
67.5°	90.7	87.1	84.4	83.2	81.6	79.6	76.8	74.5	75.2	74.9	76.4
70°	63.0	60.6	57.8	55.8	56.6	54.3	52.7	52.7	53.1	53.5	54.3
72.5°	42.0	38.8	37.6	36.4	35.6	34.1	34.9	34.9	34.5	34.9	34.1
75°	23.8	22.2	21.0	20.6	19.8	19.8	19.8	19.8	19.4	19.0	19.0
77.5°	10.7	9.9	9.5	9.1	9.1	9.1	8.7	8.3	8.3	8.3	7.9
80°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
82.5°	1.6	1.6	2.0	2.0	2.0	1.6	2.0	2.0	1.6	1.6	2.0
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: P857398

CATALOG NUMBER: LX4C25D010 EX4C259040 4LBLWW\*

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7
2.5°	1057.8	1058.2	1058.2	1058.2	1058.6	1058.6	1058.6	1058.6
5°	1055.1	1055.5	1055.5	1055.5	1055.9	1055.9	1055.9	1055.9
7.5°	1050.3	1050.7	1050.7	1051.1	1051.1	1051.5	1051.5	1051.9
10°	1044.8	1045.6	1046.0	1046.4	1046.8	1047.1	1047.1	1047.5
12.5°	1038.8	1039.6	1040.0	1040.8	1041.6	1042.0	1042.4	1042.8
15°	1030.1	1031.7	1032.5	1032.9	1034.5	1035.3	1035.7	1036.1
17.5°	1016.3	1019.4	1020.6	1021.4	1023.0	1024.6	1025.8	1026.2
20°	996.5	1000.0	1001.6	1003.6	1006.0	1007.9	1008.7	1009.5
22.5°	968.7	972.7	975.1	977.4	979.4	981.4	984.6	983.4
25°	929.1	935.9	938.6	939.8	944.2	946.6	948.1	946.6
27.5°	884.8	888.7	891.1	893.9	897.0	899.4	900.2	902.6
30°	831.3	838.0	837.6	840.4	844.4	846.7	847.5	849.5
32.5°	775.9	779.0	781.4	781.0	782.6	786.9	785.4	788.9
35°	716.8	717.2	721.2	720.8	724.0	724.0	724.0	726.3
37.5°	653.9	658.6	656.6	661.4	659.8	661.0	661.0	661.8
40°	596.4	598.0	598.0	599.6	600.8	599.6	600.4	602.4
42.5°	537.0	538.6	539.0	538.2	539.4	543.0	540.2	542.6
45°	481.6	482.8	484.4	483.2	485.2	484.0	485.2	484.4
47.5°	429.3	428.9	428.5	431.7	428.9	429.3	430.9	428.1
50°	375.8	378.2	376.6	377.8	378.6	378.6	377.4	377.4
52.5°	328.3	327.9	326.7	327.9	327.1	327.5	328.3	327.5
55°	279.2	280.8	280.0	279.6	280.0	280.0	282.4	279.2
57.5°	230.9	230.1	231.3	234.1	231.3	233.3	234.5	234.9
60°	185.0	185.0	187.3	186.1	188.5	190.5	192.1	191.3
62.5°	141.0	143.0	143.8	144.2	146.5	148.1	148.1	147.7
65°	104.6	107.3	107.3	108.9	109.7	109.7	110.5	112.1
67.5°	77.2	77.2	77.6	78.4	78.0	78.0	78.8	79.2
70°	53.9	53.1	54.3	53.9	53.9	53.5	53.9	53.9
72.5°	34.1	34.1	34.5	34.1	33.3	33.7	33.7	34.5
75°	18.2	19.0	18.2	18.2	18.6	17.8	18.2	18.6
77.5°	7.5	7.5	7.5	7.5	7.5	7.1	7.1	7.1
80°	3.6	3.6	3.6	3.6	3.6	3.6	3.2	3.2
82.5°	1.6	2.0	1.6	2.0	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)