

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: P879396

Luminaire Tested: **LD4C25D010 EU4259050 4LBLDWWH**

Issue Date: 10/1/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P879396
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-6)
Test Lab: INNOVATION CENTER
Issue Date: 10/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C25D010 EU4259050 4LBLDWWH
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBLDWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

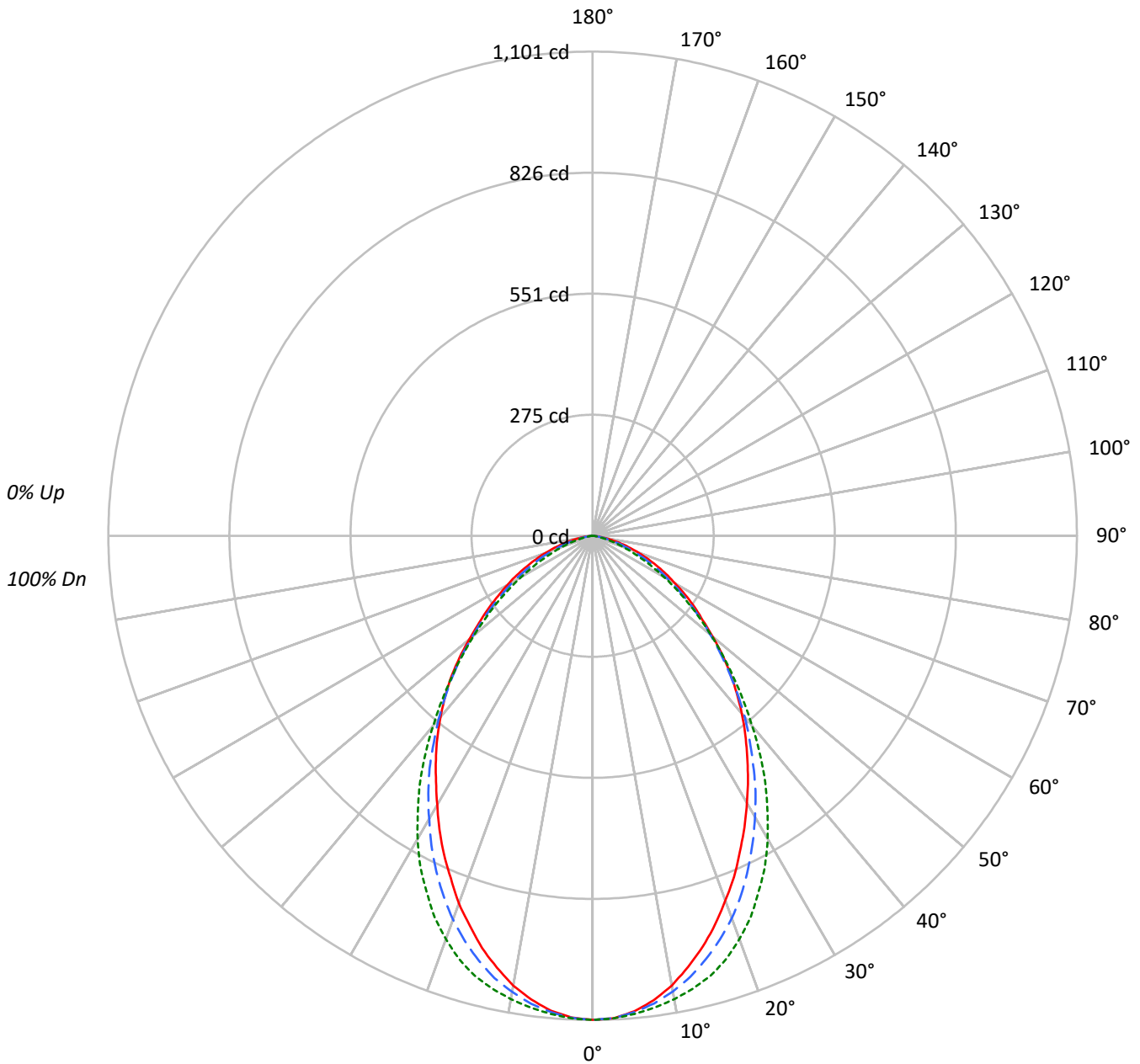
Lumens per Lamp: N/A
Luminaire Lumens: 1969.0 lumens
Efficiency: N/A
Efficacy: 62.5 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.1 / 1.12
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
Input Voltage (V): NR
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	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77																			
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67																			
4	88	77	70	64	86	76	69	63	74	68	63	71	66	62	69	65	61	59																			
5	81	70	62	56	80	69	62	56	67	61	56	65	59	55	63	58	54	52																			
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47																			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42																			
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38																			
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35																			
10	59	46	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	135237	135237	135237
5°	133867	134607	133719
10°	129514	133444	129564
15°	123041	131728	123461
20°	115324	127587	116278
25°	107413	121050	108402
30°	99500	112920	100252
35°	91801	102644	93195
40°	84677	90451	86233
45°	76707	78392	79017
50°	68003	67143	69704
55°	60615	56546	62008
60°	53048	45898	55038
65°	46424	35494	48052
70°	39045	26006	41092
75°	30521	16898	32230
80°	20022	8844	22003
85°	6907	3947	9162



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.8	5.2
10°-20°	280.8	14.3
20°-30°	386.2	19.6
30°-40°	402.9	20.5
40°-50°	344.7	17.5
50°-60°	246.5	12.5
60°-70°	143.1	7.3
70°-80°	55.2	2.8
80°-90°	7.0	0.4
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°	769.7	39.1
0°-40°	1172.6	59.6
0°-60°	1763.8	89.6
0°-90°	1969.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1969.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1101	1101	1101	1101	1101	
5°	1086	1088	1092	1088	1084	102
15°	967	996	1036	1000	971	271
25°	792	836	893	841	800	365
35°	612	636	684	646	621	383
45°	442	438	451	449	455	340
55°	283	269	264	276	290	253
65°	160	141	122	146	165	159
75°	64	48	36	51	68	69
85°	5	4	3	4	6	9
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°	1100.8	1100.8	1100.8	1100.8	1100.8	1100.8	1100.8	1100.8	1100.8	1100.8	1100.8
2.5°	1098.0	1097.2	1097.6	1097.6	1097.6	1097.2	1098.0	1098.0	1097.6	1097.6	1097.6
5°	1085.5	1084.7	1085.1	1085.5	1085.5	1085.5	1085.9	1086.3	1086.7	1087.1	1087.5
7.5°	1065.3	1064.0	1065.3	1066.9	1066.9	1067.3	1067.7	1068.1	1069.3	1071.3	1072.5
10°	1038.2	1038.2	1038.6	1039.8	1041.8	1041.4	1042.6	1044.6	1047.1	1049.9	1051.9
12.5°	1003.8	1004.6	1005.8	1007.0	1009.1	1010.3	1012.3	1014.7	1018.8	1022.8	1027.3
15°	967.4	967.8	968.2	971.1	973.1	975.9	977.5	982.4	986.0	991.7	996.5
17.5°	926.6	926.2	927.4	929.8	934.7	935.9	937.9	943.2	948.4	956.1	962.6
20°	882.1	884.5	886.2	889.4	892.2	895.5	897.1	903.5	909.6	916.9	925.4
22.5°	840.1	838.1	840.9	844.5	847.0	849.4	852.2	859.1	865.5	874.4	882.9
25°	792.4	793.6	795.6	798.4	801.7	804.9	808.1	815.4	819.1	828.4	836.0
27.5°	747.1	749.1	749.9	753.6	756.4	758.8	760.4	768.9	772.2	780.2	787.9
30°	701.4	703.4	703.4	707.5	709.5	711.9	716.0	721.6	726.5	732.1	737.8
32.5°	657.3	657.3	659.0	662.6	664.6	667.5	668.7	672.7	677.6	683.2	689.3
35°	612.1	613.3	614.9	614.9	618.5	620.2	621.8	625.8	629.0	631.5	636.3
37.5°	570.4	570.4	569.2	571.2	573.7	573.3	575.7	577.7	579.7	582.6	586.6
40°	528.0	528.0	526.4	527.6	529.2	528.8	528.0	530.0	531.6	533.6	537.7
42.5°	484.7	483.9	483.5	483.5	484.3	483.5	484.3	484.7	484.7	484.7	487.1
45°	441.5	443.5	441.1	440.3	439.0	437.8	437.4	437.8	439.4	437.4	437.8
47.5°	399.0	399.8	398.2	397.0	395.8	395.0	395.8	393.4	394.2	394.6	393.0
50°	355.8	354.1	354.1	352.9	353.3	352.9	352.1	351.3	351.3	349.3	348.1
52.5°	315.7	316.5	317.4	314.5	314.9	312.9	313.3	311.3	311.3	308.9	309.7
55°	283.0	281.8	281.8	280.6	280.2	278.1	277.7	276.5	273.7	272.1	268.8
57.5°	249.0	248.6	247.0	247.4	245.0	244.6	243.8	241.8	239.7	237.7	234.1
60°	215.9	216.3	216.3	215.5	214.3	212.2	212.6	209.8	207.0	203.3	200.1
62.5°	188.4	187.2	186.8	186.0	183.5	183.5	181.5	179.5	176.7	173.0	170.2
65°	159.7	160.1	158.9	157.7	155.2	154.8	153.2	151.6	148.8	145.1	141.1
67.5°	133.8	133.0	132.6	131.4	129.0	128.6	127.3	123.7	121.3	117.6	114.4
70°	108.7	107.9	108.3	106.3	103.9	102.7	102.3	99.5	95.8	93.0	89.7
72.5°	85.3	85.3	84.9	82.9	81.7	80.9	79.2	76.0	74.0	70.7	68.3
75°	64.3	63.9	63.1	61.9	60.2	59.4	58.6	56.6	53.8	50.1	48.1
77.5°	44.5	44.9	44.1	43.7	41.6	40.4	40.0	38.8	36.4	34.0	31.9
80°	28.3	27.9	27.5	26.7	26.3	25.9	24.7	23.9	21.4	20.2	19.0
82.5°	15.4	14.6	14.6	14.1	13.3	12.9	12.5	11.7	11.3	10.5	9.7
85°	4.9	5.3	4.9	4.9	4.9	4.4	4.4	4.4	4.0	4.0	3.6
87.5°	0.4	0.8	0.4	0.4	0.8	0.4	0.4	0.8	0.4	0.4	0.8
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°	1100.8	1100.8	1100.8	1100.8	1100.8	1100.8	1100.8	1100.8	1100.8	1100.8	1100.8
2.5°	1097.6	1098.0	1098.0	1098.4	1098.4	1098.4	1098.4	1098.4	1098.4	1098.4	1098.4
5°	1088.7	1088.7	1089.5	1090.3	1090.3	1090.3	1090.7	1091.5	1091.5	1091.5	1091.1
7.5°	1074.2	1075.8	1077.4	1079.0	1079.4	1079.8	1080.6	1082.2	1082.2	1082.2	1082.2
10°	1055.2	1058.8	1060.8	1063.2	1064.4	1065.3	1067.7	1068.1	1069.3	1069.7	1069.3
12.5°	1030.9	1035.7	1040.2	1044.2	1045.9	1047.5	1049.9	1052.3	1053.5	1054.7	1054.3
15°	1003.8	1009.1	1015.9	1020.4	1023.6	1026.0	1029.7	1032.9	1034.9	1035.7	1035.7
17.5°	971.1	977.5	984.8	992.1	994.1	998.1	1002.2	1006.6	1009.1	1009.5	1009.1
20°	934.7	942.0	948.0	955.3	959.7	961.8	967.4	973.1	975.5	975.9	975.5
22.5°	891.4	898.3	906.4	914.1	917.7	921.3	927.4	933.1	936.3	938.7	936.3
25°	843.3	853.0	860.7	867.2	872.4	876.1	883.7	888.2	893.4	893.0	893.4
27.5°	796.0	804.1	812.6	820.3	823.5	827.5	833.6	840.9	845.3	848.2	847.8
30°	747.5	754.0	761.2	768.1	773.4	776.6	785.5	788.7	794.4	796.0	794.8
32.5°	696.2	700.6	707.9	717.2	719.2	722.4	728.1	736.2	738.2	739.0	739.4
35°	641.6	650.1	656.1	661.8	663.4	666.2	672.7	678.8	680.8	684.4	682.8
37.5°	591.0	595.9	598.7	604.4	609.2	611.7	614.9	618.9	623.0	624.6	624.2
40°	540.5	542.9	545.4	551.4	551.8	551.8	556.7	562.3	562.3	564.0	564.0
42.5°	488.8	489.2	492.4	495.6	496.4	497.3	502.1	502.9	505.3	506.6	508.2
45°	438.6	441.1	443.1	443.5	445.5	445.9	447.1	448.3	452.0	451.2	452.0
47.5°	393.0	394.2	395.4	395.4	396.6	396.2	398.2	397.0	399.4	400.2	401.4
50°	348.1	350.1	348.9	349.7	349.3	350.5	349.7	349.7	349.7	351.3	352.5
52.5°	306.8	307.2	306.0	306.4	306.4	305.6	306.4	306.0	305.6	305.6	306.0
55°	268.8	267.2	266.4	264.8	262.8	265.2	264.0	263.2	264.8	264.0	264.8
57.5°	232.1	230.0	228.4	227.6	224.8	226.4	224.8	224.0	224.0	224.0	226.0
60°	197.3	195.3	193.2	190.8	190.4	189.6	188.8	186.8	187.2	186.8	187.6
62.5°	167.0	162.9	160.1	158.1	157.7	156.5	155.2	153.2	153.6	153.6	154.0
65°	139.1	134.6	130.6	127.7	127.7	125.7	123.7	123.7	121.3	122.1	122.5
67.5°	111.2	107.5	103.5	101.5	100.3	98.6	97.4	96.6	95.4	95.4	96.2
70°	86.1	82.5	80.5	77.2	76.8	75.6	74.0	72.8	72.4	72.4	72.0
72.5°	65.1	61.9	59.4	57.4	56.2	55.0	53.4	53.0	52.2	52.2	53.0
75°	45.3	43.3	41.2	39.2	38.4	38.0	36.8	36.0	36.0	35.6	36.0
77.5°	30.3	28.3	26.3	25.5	24.7	23.9	23.4	23.0	21.8	21.8	21.8
80°	17.4	16.6	15.8	14.6	14.6	14.1	13.3	12.9	12.5	12.5	12.5
82.5°	8.9	8.5	7.7	7.3	7.3	7.3	6.9	6.9	6.5	6.5	6.5
85°	3.6	3.2	2.8	2.8	2.8	2.8	2.8	2.8	3.2	2.8	3.2
87.5°	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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°	1100.8	1100.8	1100.8	1100.8	1100.8	1100.8	1100.8	1100.8	1100.8	1100.8	1100.8
2.5°	1098.4	1098.0	1098.0	1098.0	1098.0	1098.0	1097.6	1097.6	1097.2	1097.2	1097.2
5°	1091.5	1091.1	1090.7	1090.3	1089.9	1089.5	1089.1	1088.7	1087.5	1087.1	1086.3
7.5°	1081.8	1081.0	1079.8	1079.4	1078.6	1077.4	1075.8	1075.0	1073.3	1071.3	1070.5
10°	1068.9	1067.3	1066.1	1064.0	1063.6	1062.0	1058.0	1056.0	1053.1	1050.7	1047.9
12.5°	1053.1	1051.5	1048.7	1045.9	1044.2	1040.6	1037.0	1033.7	1030.1	1024.8	1020.8
15°	1033.7	1031.3	1025.6	1024.8	1022.4	1016.7	1011.9	1005.8	1000.2	994.5	989.7
17.5°	1007.9	1002.6	999.8	996.1	993.3	986.0	980.8	973.9	966.2	959.7	952.9
20°	973.9	968.2	963.4	961.4	957.7	951.3	944.8	936.3	928.6	920.5	914.5
22.5°	933.5	929.8	922.5	920.1	915.7	909.2	901.5	893.4	886.2	877.3	869.2
25°	890.2	885.0	879.3	874.4	871.2	865.1	855.4	849.4	841.3	831.6	825.5
27.5°	844.1	838.1	830.0	826.7	823.9	815.8	807.7	800.1	793.6	785.1	779.8
30°	790.8	786.3	781.1	777.0	773.0	766.5	759.2	750.3	743.5	739.4	732.1
32.5°	736.6	732.9	726.1	724.1	719.6	714.3	709.1	702.6	695.3	689.3	683.6
35°	678.8	675.1	670.3	666.6	665.0	661.4	655.7	650.1	646.4	639.6	636.7
37.5°	621.0	619.7	614.9	611.3	610.0	605.6	602.8	598.7	593.5	591.9	588.6
40°	561.5	560.7	557.9	557.5	555.1	553.9	549.8	546.6	544.2	542.9	540.9
42.5°	507.0	506.1	503.7	504.1	501.7	500.9	500.5	497.7	495.6	493.2	493.6
45°	453.2	452.4	450.8	450.0	451.2	450.8	450.0	448.7	448.7	449.1	447.9
47.5°	401.4	402.3	400.6	401.4	401.4	400.2	400.2	401.8	402.3	403.1	403.9
50°	352.5	355.0	354.1	355.4	355.8	356.2	355.0	357.0	356.6	360.2	359.4
52.5°	308.1	308.5	310.1	310.5	310.9	311.3	313.3	314.9	315.3	316.9	319.8
55°	265.2	265.6	268.8	268.8	270.9	271.3	274.1	274.9	276.1	280.6	281.4
57.5°	224.8	227.2	228.8	229.6	230.8	232.9	234.5	238.1	240.1	243.0	245.8
60°	188.4	191.2	193.2	194.1	195.7	198.1	200.1	204.2	207.8	211.0	213.1
62.5°	154.8	157.3	158.9	161.7	161.7	163.7	168.6	171.0	175.0	177.9	181.5
65°	124.9	126.5	129.4	129.4	131.0	134.2	138.3	141.9	145.9	150.0	153.6
67.5°	97.8	99.0	100.7	102.3	103.1	107.1	110.4	115.6	119.3	122.1	126.5
70°	74.0	74.8	76.8	78.4	79.6	82.5	86.1	89.7	93.4	96.6	101.1
72.5°	53.0	54.6	56.6	57.8	58.6	60.6	64.3	67.9	71.2	74.4	76.8
75°	36.4	37.6	38.4	39.6	40.8	42.4	44.9	47.3	50.9	54.2	57.0
77.5°	22.6	23.9	25.1	25.5	25.9	27.5	29.1	31.5	34.0	36.4	38.4
80°	13.3	13.7	14.1	14.6	15.4	16.6	17.4	19.0	20.6	22.2	24.3
82.5°	6.9	7.3	7.7	7.7	7.7	8.1	9.3	10.1	10.5	11.3	12.5
85°	2.8	2.8	2.8	3.2	3.2	3.6	3.6	4.0	4.0	4.4	4.9
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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: P879396

CATALOG NUMBER: LD4C25D010 EU4259050 4LBLDWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1100.8	1100.8	1100.8	1100.8	1100.8	1100.8	1100.8	1100.8
2.5°	1096.8	1096.8	1096.8	1096.4	1096.8	1096.8	1096.8	1096.4
5°	1086.3	1085.5	1085.5	1085.1	1084.7	1084.7	1085.1	1084.3
7.5°	1068.9	1067.7	1066.9	1066.9	1066.5	1066.1	1066.1	1064.0
10°	1046.3	1043.8	1043.8	1043.0	1039.8	1039.4	1038.6	1038.6
12.5°	1018.0	1015.1	1013.5	1011.5	1009.5	1007.9	1007.4	1005.8
15°	984.4	980.8	977.9	977.1	973.9	971.5	971.5	970.7
17.5°	948.0	942.4	940.3	938.3	933.9	933.5	932.7	929.0
20°	906.8	901.5	898.7	896.7	893.8	889.8	889.0	889.4
22.5°	863.5	856.2	853.8	851.8	849.0	845.3	845.3	842.5
25°	818.7	812.2	809.8	807.3	802.9	801.3	799.2	799.7
27.5°	773.0	766.9	764.9	760.4	757.6	755.6	753.6	753.6
30°	725.3	722.0	718.8	718.4	712.7	710.3	708.3	706.7
32.5°	679.2	675.1	673.5	671.9	669.1	665.8	665.4	662.6
35°	633.9	629.9	627.8	626.2	623.0	621.8	620.6	621.4
37.5°	586.2	585.4	584.2	582.2	580.1	579.7	578.1	580.1
40°	539.3	538.9	537.3	537.7	537.7	536.9	537.7	537.7
42.5°	494.0	494.0	492.4	493.2	493.6	494.4	495.6	496.4
45°	450.0	449.6	450.0	450.8	450.0	452.0	453.6	454.8
47.5°	404.7	405.1	406.7	407.1	407.9	410.7	410.7	410.7
50°	361.4	363.4	362.6	365.1	364.7	366.3	364.7	364.7
52.5°	320.2	322.2	322.6	323.0	325.4	325.8	325.8	325.4
55°	283.4	286.2	285.0	287.0	288.2	289.1	290.3	289.5
57.5°	249.4	250.6	251.9	252.3	253.9	254.7	255.5	254.7
60°	215.9	218.3	220.3	220.7	221.5	222.3	222.8	224.0
62.5°	184.3	188.4	189.2	189.6	191.6	192.8	193.6	194.5
65°	156.5	159.3	161.3	162.5	164.1	164.1	165.3	165.3
67.5°	129.4	132.2	133.4	134.2	136.6	137.0	139.1	139.1
70°	104.7	106.7	107.5	108.7	111.2	112.8	113.6	114.4
72.5°	80.9	83.3	84.5	86.1	87.7	88.9	89.3	90.6
75°	59.0	62.7	63.1	64.7	65.9	67.5	68.3	67.9
77.5°	41.2	42.4	44.1	44.9	46.1	47.3	48.5	48.5
80°	25.5	27.1	27.5	27.9	29.5	30.3	31.1	31.1
82.5°	13.3	14.1	15.0	15.4	16.2	16.2	16.6	17.0
85°	5.3	5.7	5.7	5.7	6.1	6.5	6.5	6.5
87.5°	0.8	1.2	0.8	0.8	1.2	1.2	1.2	1.2
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)