

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: P857487

Luminaire Tested: **LX4C25D010 EX4C259840 4LBSWNH**

Issue Date: 2/18/2022

Test Information

Test Method: LM-79-08
Report Number: P857487
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 EX4C259840 4LBSWNH
Description:
Light Source: -
Ballast/Driver: -

Summary

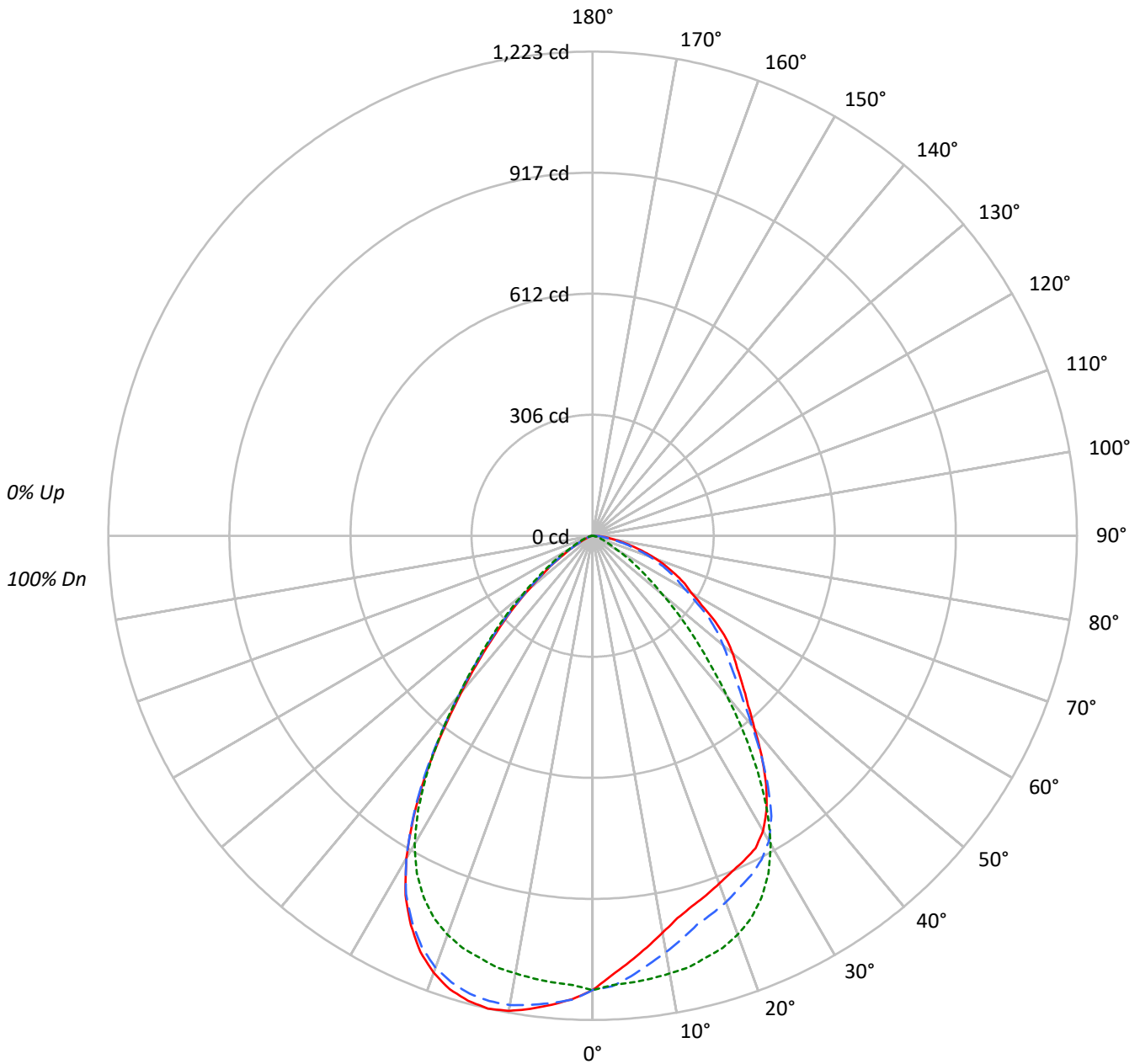
Lumens per Lamp: N/A
Luminaire Lumens: 2011.7 lumens
Efficiency: N/A
Efficacy: 63.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	140999	140999	140999
5°	133139	139712	146631
10°	126944	140030	152031
15°	123206	140338	154622
20°	122201	140177	153526
25°	122690	136720	147144
30°	122112	127560	133433
35°	114462	108913	110008
40°	101982	84453	82544
45°	93264	62946	59089
50°	88186	44112	39869
55°	81092	29772	25017
60°	70862	17445	13809
65°	67093	11163	7733
70°	61100	7974	4813
75°	50552	5649	3513
80°	39761	3184	2052
85°	35381	2114	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.4	5.4
10°-20°	311.1	15.5
20°-30°	461.2	22.9
30°-40°	461.8	23.0
40°-50°	322.7	16.0
50°-60°	192.0	9.5
60°-70°	100.2	5.0
70°-80°	44.6	2.2
80°-90°	9.7	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°	880.7	43.8
0°-40°	1342.5	66.7
0°-60°	1857.2	92.3
0°-90°	2011.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2011.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1148	1148	1148	1148	1148	
5°	1080	1117	1133	1185	1189	101
15°	969	1018	1103	1198	1216	274
25°	905	947	1009	1078	1086	417
35°	763	772	726	740	734	473
45°	537	510	362	350	340	417
55°	379	355	139	121	117	336
65°	231	212	38	28	27	228
75°	106	93	12	7	7	115
85°	25	19	2	2	0	28
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°	1147.7	1147.7	1147.7	1147.7	1147.7	1147.7	1147.7	1147.7	1147.7	1147.7	1147.7
2.5°	1110.7	1124.0	1110.7	1115.1	1132.9	1116.6	1125.5	1125.5	1121.1	1131.4	1138.8
5°	1079.6	1092.9	1079.6	1085.5	1104.8	1088.5	1098.9	1096.0	1097.4	1106.3	1116.6
7.5°	1048.6	1058.9	1047.1	1054.5	1072.2	1058.9	1067.8	1067.8	1069.3	1082.6	1091.5
10°	1017.6	1026.4	1017.6	1023.5	1042.7	1030.9	1036.7	1038.3	1042.7	1054.5	1067.8
12.5°	989.4	996.8	988.0	996.8	1013.1	1001.2	1008.6	1010.1	1014.5	1027.9	1042.7
15°	968.7	976.1	967.3	974.6	989.4	980.6	986.4	989.4	992.3	1004.2	1017.6
17.5°	952.5	958.4	951.0	959.9	971.6	961.4	970.2	970.2	974.6	986.4	1001.2
20°	934.7	940.6	934.7	942.1	955.4	946.6	953.9	953.9	958.4	971.6	985.0
22.5°	918.4	921.4	918.4	924.4	937.7	930.3	934.7	936.2	940.6	952.5	964.3
25°	905.1	911.0	908.1	913.9	922.9	915.5	919.9	921.4	925.8	936.2	946.6
27.5°	890.3	893.3	890.3	897.7	905.1	899.2	903.7	902.2	905.1	913.9	922.9
30°	860.8	863.7	863.7	868.1	874.1	871.1	875.5	871.1	874.1	881.5	890.3
32.5°	817.9	819.3	820.8	825.3	829.7	825.3	828.2	828.2	828.2	834.1	840.1
35°	763.2	766.1	764.7	767.6	772.0	770.6	770.6	769.0	766.1	769.0	772.0
37.5°	701.0	696.5	696.5	701.0	704.0	698.1	701.0	698.1	698.1	699.6	699.6
40°	635.9	631.5	635.9	637.4	638.9	635.9	634.5	631.5	627.1	628.6	625.6
42.5°	581.2	578.2	579.7	579.7	581.2	578.2	579.7	573.8	569.4	566.4	562.0
45°	536.8	532.5	536.8	533.9	533.9	532.5	530.9	528.0	522.0	517.7	510.3
47.5°	495.5	495.5	496.9	496.9	496.9	493.9	493.9	488.1	482.2	476.2	465.9
50°	461.4	458.4	464.4	464.4	460.0	458.4	460.0	452.6	448.2	440.7	430.4
52.5°	424.5	424.5	426.0	426.0	424.5	421.5	423.0	417.1	412.6	405.2	394.9
55°	378.6	375.7	380.1	380.1	378.6	377.1	378.6	374.2	369.8	363.8	354.9
57.5°	326.8	325.4	328.3	329.9	326.8	326.8	328.3	323.9	322.4	316.5	307.7
60°	288.4	287.0	289.9	291.4	288.4	288.4	288.4	282.4	279.5	273.6	267.7
62.5°	261.7	260.3	263.2	261.7	260.3	258.8	260.3	254.4	251.5	245.5	239.6
65°	230.8	232.2	233.7	233.7	232.2	230.8	230.8	227.8	224.8	218.9	211.5
67.5°	201.1	201.1	202.6	204.0	202.6	202.6	202.6	198.1	195.2	190.8	181.9
70°	170.1	168.6	173.1	173.1	170.1	171.6	170.1	168.6	165.6	159.7	152.4
72.5°	137.5	137.5	139.0	139.0	137.5	137.5	137.5	136.1	131.6	128.7	121.3
75°	106.5	106.5	108.0	109.4	106.5	106.5	108.0	105.0	102.0	97.6	93.2
77.5°	79.9	78.4	79.9	79.9	78.4	78.4	78.4	77.0	75.4	71.0	66.5
80°	56.2	54.8	56.2	56.2	56.2	54.8	54.8	53.2	53.2	50.3	45.8
82.5°	38.4	37.0	38.4	38.4	38.4	37.0	37.0	37.0	35.5	34.1	31.0
85°	25.1	23.6	23.6	25.1	23.6	23.6	23.6	23.6	22.2	20.7	19.3
87.5°	11.9	11.9	11.9	11.9	11.9	11.9	11.9	10.3	10.3	10.3	8.8
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°	1147.7	1147.7	1147.7	1147.7	1147.7	1147.7	1147.7	1147.7	1147.7	1147.7	1147.7
2.5°	1132.9	1129.9	1138.8	1135.9	1137.3	1129.9	1141.8	1135.9	1143.2	1135.9	1150.6
5°	1113.7	1110.7	1124.0	1122.5	1124.0	1118.2	1131.4	1129.9	1138.8	1132.9	1149.1
7.5°	1092.9	1090.0	1104.8	1106.3	1109.2	1103.4	1121.1	1121.1	1129.9	1128.4	1146.2
10°	1069.3	1070.7	1085.5	1088.5	1094.4	1091.5	1107.7	1112.2	1124.0	1122.5	1144.7
12.5°	1047.1	1047.1	1066.3	1072.2	1076.7	1075.2	1094.4	1100.4	1113.7	1116.6	1137.3
15°	1025.0	1026.4	1044.1	1053.0	1058.9	1057.5	1078.2	1085.5	1101.8	1103.4	1128.4
17.5°	1007.1	1005.7	1025.0	1032.3	1041.2	1039.8	1061.9	1070.7	1087.0	1091.5	1115.1
20°	992.3	990.9	1008.6	1017.6	1023.5	1022.0	1044.1	1054.5	1069.3	1072.2	1096.0
22.5°	974.6	971.6	989.4	996.8	1002.8	1001.2	1020.5	1027.9	1042.7	1045.7	1067.8
25°	953.9	951.0	967.3	971.6	976.1	973.2	989.4	993.8	1005.7	1008.6	1030.9
27.5°	930.3	922.9	936.2	936.2	939.2	934.7	946.6	951.0	961.4	961.4	982.1
30°	893.3	883.0	890.3	888.9	890.3	884.4	891.8	893.3	900.7	899.2	913.9
32.5°	841.5	826.7	831.2	826.7	822.4	813.4	822.4	819.3	825.3	819.3	832.6
35°	770.6	755.8	754.2	748.3	744.0	736.5	736.5	729.2	730.6	726.2	735.1
37.5°	693.6	674.4	671.5	659.6	652.2	643.4	643.4	637.4	630.0	627.1	634.5
40°	618.2	597.5	590.2	570.9	563.5	554.6	548.7	541.3	538.3	526.6	532.5
42.5°	553.1	530.9	514.7	493.9	486.6	473.2	464.4	455.5	451.1	437.8	443.7
45°	498.4	471.8	454.1	427.4	417.1	402.3	389.0	378.6	368.3	362.3	359.4
47.5°	452.6	424.5	400.7	371.2	354.9	341.6	323.9	313.5	300.2	292.8	288.4
50°	414.1	383.0	356.4	322.4	306.1	291.4	270.6	254.4	242.6	230.8	227.8
52.5°	380.1	347.6	318.0	279.5	260.3	242.6	220.3	202.6	192.3	179.0	177.5
55°	340.1	312.1	279.5	239.6	220.3	202.6	179.0	161.2	147.9	139.0	136.1
57.5°	297.3	270.6	239.6	199.7	180.4	161.2	139.0	122.7	110.9	103.5	102.0
60°	257.4	232.2	202.6	162.7	143.4	127.2	103.5	87.2	77.0	71.0	68.0
62.5°	227.8	204.0	176.0	139.0	121.3	105.0	82.8	68.0	59.1	53.2	50.3
65°	199.7	176.0	150.9	116.8	102.0	87.2	66.5	53.2	44.3	38.4	35.5
67.5°	170.1	149.4	125.7	97.6	82.8	71.0	53.2	41.4	34.1	29.6	26.6
70°	140.4	121.3	102.0	78.4	68.0	56.2	41.4	32.5	25.1	22.2	19.3
72.5°	110.9	96.1	79.9	60.6	51.8	44.3	32.5	23.6	19.3	16.3	13.4
75°	82.8	72.5	59.1	45.8	38.4	32.5	23.6	17.7	14.8	11.9	10.3
77.5°	59.1	50.3	41.4	31.0	28.1	23.6	16.3	13.4	10.3	7.4	5.9
80°	40.0	35.5	28.1	22.2	17.7	16.3	11.9	8.8	5.9	4.5	4.5
82.5°	26.6	22.2	17.7	13.4	11.9	10.3	7.4	5.9	4.5	2.9	2.9
85°	16.3	13.4	10.3	7.4	7.4	5.9	4.5	2.9	1.5	1.5	1.5
87.5°	7.4	5.9	4.5	2.9	2.9	1.5	1.5	1.5	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°	1147.7	1147.7	1147.7	1147.7	1147.7	1147.7	1147.7	1147.7	1147.7	1147.7	1147.7
2.5°	1162.5	1153.6	1147.7	1155.1	1158.0	1153.6	1158.0	1165.4	1172.8	1174.3	1153.6
5°	1164.0	1155.1	1152.1	1161.0	1162.5	1161.0	1165.4	1175.8	1184.7	1187.6	1166.9
7.5°	1164.0	1158.0	1156.6	1166.9	1168.4	1166.9	1174.3	1186.1	1195.0	1200.9	1180.2
10°	1161.0	1158.0	1159.5	1168.4	1171.3	1171.3	1181.7	1195.0	1203.9	1209.7	1189.0
12.5°	1156.6	1156.6	1156.6	1166.9	1169.9	1171.3	1180.2	1198.0	1203.9	1212.8	1192.1
15°	1149.1	1149.1	1149.1	1159.5	1164.0	1164.0	1174.3	1190.6	1198.0	1206.8	1186.1
17.5°	1135.9	1135.9	1137.3	1146.2	1150.6	1150.6	1161.0	1178.8	1183.2	1193.5	1172.8
20°	1116.6	1116.6	1118.2	1127.0	1131.4	1128.4	1141.8	1156.6	1161.0	1169.9	1149.1
22.5°	1088.5	1088.5	1088.5	1097.4	1100.4	1098.9	1112.2	1125.5	1125.5	1137.3	1115.1
25°	1047.1	1050.0	1047.1	1056.0	1058.9	1057.5	1069.3	1081.1	1078.2	1091.5	1069.3
27.5°	996.8	995.4	995.4	1002.8	1002.8	1001.2	1010.1	1023.5	1020.5	1029.3	1008.6
30°	927.3	931.7	924.4	934.7	930.3	927.3	933.2	945.1	940.6	948.0	931.7
32.5°	847.4	841.5	841.5	841.5	844.5	837.1	843.1	848.9	844.5	851.9	834.1
35°	742.5	744.0	739.5	740.9	742.5	733.5	739.5	745.4	739.5	744.0	727.7
37.5°	637.4	638.9	628.6	634.5	628.6	625.6	631.5	634.5	628.6	633.0	615.2
40°	532.5	529.5	528.0	528.0	529.5	522.0	526.6	530.9	526.6	529.5	513.2
42.5°	440.7	439.3	436.3	437.8	433.3	431.9	433.3	437.8	433.3	436.3	424.5
45°	360.8	357.9	353.5	354.9	354.9	347.6	352.0	354.9	350.5	352.0	341.6
47.5°	287.0	282.4	282.4	281.0	281.0	278.0	282.4	281.0	276.5	279.5	269.2
50°	223.3	220.3	220.3	220.3	220.3	215.9	217.4	220.3	215.9	215.9	210.0
52.5°	174.5	170.1	167.1	167.1	167.1	165.6	165.6	167.1	162.7	162.7	161.2
55°	131.6	130.2	125.7	125.7	125.7	121.3	122.7	122.7	121.3	121.3	116.8
57.5°	97.6	93.2	90.2	90.2	87.2	87.2	85.8	87.2	84.3	84.3	81.3
60°	65.0	62.1	60.6	59.1	59.1	57.7	59.1	57.7	57.7	56.2	54.8
62.5°	47.4	44.3	41.4	41.4	41.4	40.0	40.0	40.0	40.0	40.0	38.4
65°	34.1	31.0	31.0	29.6	29.6	28.1	28.1	28.1	28.1	28.1	26.6
67.5°	23.6	22.2	20.7	20.7	20.7	20.7	20.7	20.7	19.3	19.3	19.3
70°	17.7	16.3	14.8	14.8	14.8	14.8	14.8	13.4	14.8	14.8	13.4
72.5°	11.9	11.9	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
75°	8.8	8.8	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
77.5°	5.9	5.9	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
80°	4.5	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
82.5°	2.9	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	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



TEST NUMBER: P857487

CATALOG NUMBER: LX4C25D010 EX4C259840 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1147.7	1147.7	1147.7	1147.7	1147.7	1147.7	1147.7	1147.7
2.5°	1175.8	1174.3	1171.3	1175.8	1164.0	1159.5	1158.0	1171.3
5°	1192.1	1189.0	1189.0	1193.5	1180.2	1177.3	1174.3	1189.0
7.5°	1206.8	1203.9	1203.9	1208.3	1196.5	1193.5	1190.6	1205.4
10°	1215.7	1215.7	1215.7	1218.7	1208.3	1205.4	1203.9	1218.7
12.5°	1220.2	1220.2	1218.7	1224.5	1211.3	1211.3	1208.3	1223.1
15°	1214.3	1214.3	1214.3	1218.7	1206.8	1203.9	1203.9	1215.7
17.5°	1199.5	1199.5	1198.0	1202.4	1189.0	1189.0	1187.6	1200.9
20°	1177.3	1177.3	1174.3	1180.2	1166.9	1162.5	1161.0	1174.3
22.5°	1141.8	1140.3	1138.8	1141.8	1129.9	1127.0	1125.5	1137.3
25°	1096.0	1094.4	1091.5	1094.4	1081.1	1076.7	1076.7	1085.5
27.5°	1030.9	1030.9	1026.4	1030.9	1016.1	1014.5	1013.1	1023.5
30°	951.0	945.1	942.1	948.0	933.2	933.2	930.3	940.6
32.5°	851.9	846.0	844.5	847.4	834.1	829.7	835.6	841.5
35°	738.0	739.5	733.5	733.5	721.8	723.2	724.7	733.5
37.5°	628.6	625.6	624.1	625.6	616.7	613.8	610.8	619.7
40°	526.6	519.1	517.7	517.7	510.3	508.8	510.3	514.7
42.5°	430.4	428.9	423.0	426.0	418.5	421.5	420.0	420.0
45°	347.6	349.0	343.1	347.6	341.6	337.2	337.2	340.1
47.5°	275.1	275.1	273.6	273.6	269.2	270.6	267.7	272.2
50°	212.9	212.9	210.0	211.5	208.6	208.6	207.1	208.6
52.5°	162.7	161.2	161.2	159.7	156.8	158.3	159.7	156.8
55°	118.3	119.8	116.8	118.3	115.4	116.8	115.4	116.8
57.5°	81.3	82.8	79.9	82.8	79.9	81.3	79.9	79.9
60°	56.2	56.2	54.8	56.2	54.8	54.8	53.2	56.2
62.5°	38.4	38.4	38.4	38.4	38.4	37.0	38.4	38.4
65°	28.1	26.6	26.6	26.6	26.6	26.6	26.6	26.6
67.5°	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3
70°	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
72.5°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
75°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
77.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
80°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
85°	1.5	1.5	1.5	0.0	1.5	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



Report Generated By 670246072 / DESKTOP-50001EG





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













(END OF REPORT)