

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: P859175

Luminaire Tested: **LX4C60D010 EX4C609027 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P859175
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: LX4C60D010 EX4C609027 4LBLWW*
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LRLWW TRIM WITH * FINISH
Light Source: -
Ballast/Driver: -

Summary

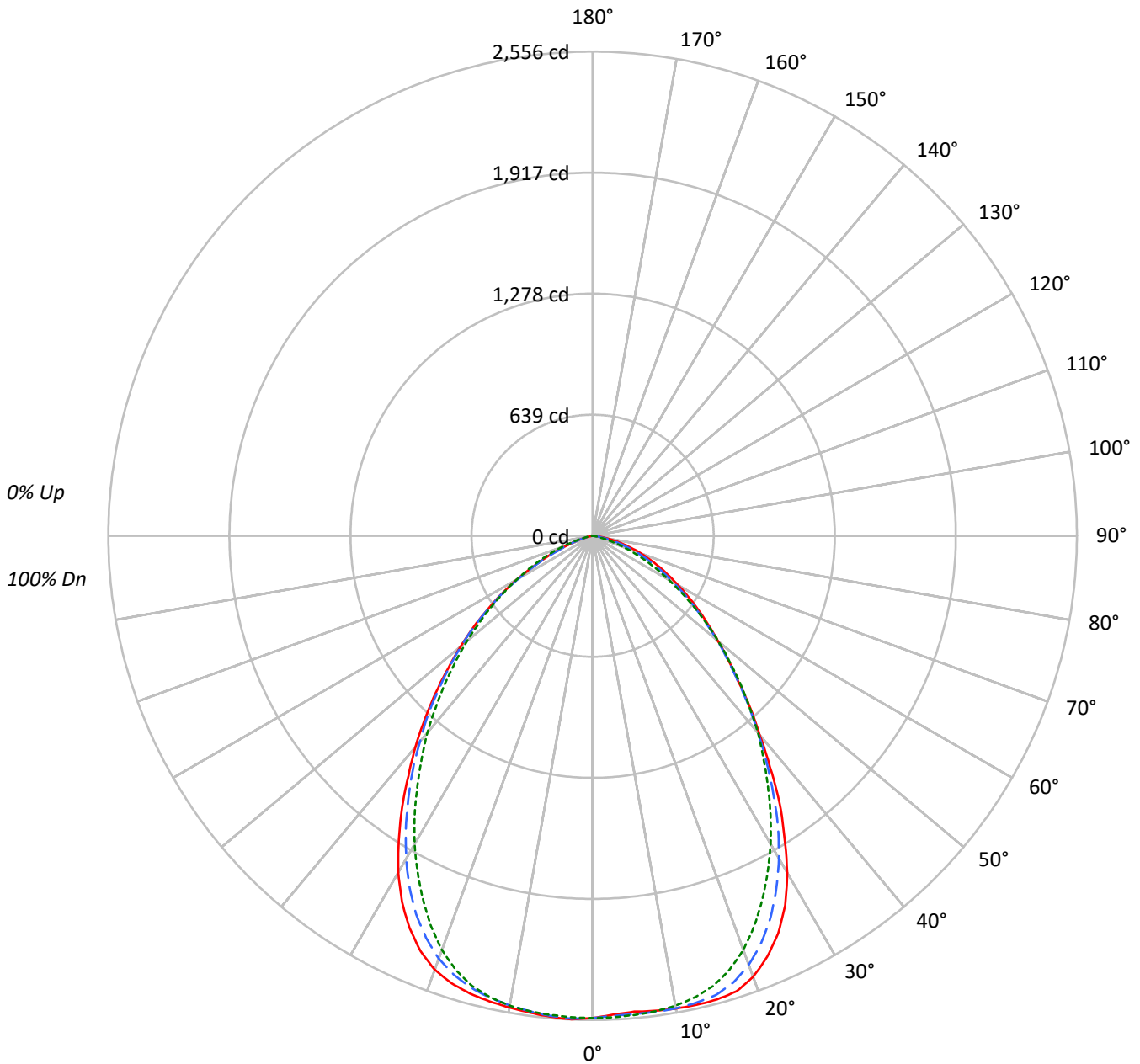
Lumens per Lamp: N/A
Luminaire Lumens: 4881.0 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 72
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									
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	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°	312773	312773	312773
5°	311020	313141	314325
10°	316163	314267	315452
15°	322343	312868	318095
20°	323969	304096	318595
25°	314010	287184	309727
30°	291449	266496	290910
35°	258094	241747	262969
40°	220017	217724	233200
45°	189030	191185	203138
50°	164999	165362	174135
55°	145798	139651	144363
60°	127792	113934	113467
65°	113110	88372	78662
70°	96481	60777	46696
75°	78036	32657	21313
80°	53415	8136	5377
85°	16210	2678	2678



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.0	5.0
10°-20°	700.4	14.4
20°-30°	1012.1	20.7
30°-40°	1046.3	21.4
40°-50°	864.5	17.7
50°-60°	596.6	12.2
60°-70°	312.4	6.4
70°-80°	98.3	2.0
80°-90°	8.3	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°	1954.5	40.0
0°-40°	3000.8	61.5
0°-60°	4462.0	91.4
0°-90°	4881.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4881.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2546	2546	2546	2546	2546	
5°	2522	2534	2539	2544	2549	241
15°	2534	2510	2460	2471	2501	715
25°	2316	2223	2119	2204	2285	1058
35°	1721	1664	1612	1696	1753	1068
45°	1088	1083	1100	1151	1169	848
55°	681	660	652	670	674	612
65°	389	353	304	252	271	385
75°	164	129	69	47	45	176
85°	12	6	2	2	2	24
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°	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9
2.5°	2529.7	2530.6	2530.6	2532.5	2532.5	2532.5	2533.5	2533.5	2534.4	2535.4	2536.4
5°	2522.0	2522.0	2523.9	2524.9	2526.8	2527.8	2529.7	2530.6	2532.5	2533.5	2534.4
7.5°	2529.7	2529.7	2530.6	2531.6	2531.6	2532.5	2532.5	2533.5	2534.4	2535.4	2535.4
10°	2534.4	2534.4	2534.4	2534.4	2535.4	2535.4	2535.4	2534.4	2534.4	2534.4	2533.5
12.5°	2536.4	2536.4	2535.4	2534.4	2535.4	2534.4	2534.4	2531.6	2529.7	2527.8	2524.9
15°	2534.4	2534.4	2533.5	2532.5	2531.6	2529.7	2528.7	2523.9	2520.1	2514.4	2510.5
17.5°	2522.0	2520.1	2518.2	2516.3	2512.5	2509.6	2507.7	2499.1	2492.4	2482.8	2472.3
20°	2478.0	2476.1	2473.3	2468.5	2463.7	2459.9	2454.1	2441.7	2435.0	2420.7	2410.2
22.5°	2406.3	2404.4	2405.4	2396.8	2387.2	2381.5	2377.7	2367.1	2355.7	2337.5	2326.0
25°	2316.5	2310.7	2310.7	2297.4	2292.6	2288.7	2284.0	2271.5	2254.3	2238.1	2222.8
27.5°	2199.8	2192.2	2188.4	2186.5	2175.0	2166.4	2159.7	2150.1	2135.8	2121.4	2100.4
30°	2054.5	2053.6	2048.8	2040.2	2031.6	2027.8	2020.1	2003.8	1990.5	1979.9	1966.6
32.5°	1883.4	1882.4	1882.4	1882.4	1876.7	1875.7	1864.3	1855.7	1845.1	1828.9	1820.3
35°	1720.9	1719.9	1720.9	1706.5	1702.7	1699.8	1698.9	1693.1	1678.8	1671.1	1663.5
37.5°	1537.3	1540.2	1538.3	1534.4	1539.2	1530.6	1537.3	1524.9	1519.1	1517.2	1508.6
40°	1371.9	1379.6	1371.9	1372.9	1377.6	1369.0	1369.0	1367.1	1363.3	1361.4	1359.5
42.5°	1230.4	1220.9	1226.6	1221.8	1226.6	1223.7	1218.9	1221.8	1222.8	1218.9	1218.0
45°	1088.0	1089.9	1091.8	1088.9	1088.9	1086.1	1093.7	1088.9	1088.9	1089.9	1083.2
47.5°	972.3	969.4	971.3	969.4	970.4	968.5	970.4	971.3	969.4	969.4	963.7
50°	863.3	861.4	868.1	862.3	862.3	861.4	862.3	860.4	857.6	857.6	859.5
52.5°	768.7	764.8	763.9	768.7	762.0	762.0	762.9	761.0	757.2	755.3	750.5
55°	680.7	679.7	680.7	676.9	675.0	675.0	670.2	668.3	667.3	662.5	659.7
57.5°	598.5	595.6	596.6	595.6	591.8	590.8	587.0	587.0	583.2	579.4	574.6
60°	520.1	520.1	523.0	519.1	516.3	514.3	512.4	510.5	503.8	497.1	491.4
62.5°	450.3	451.2	450.3	447.4	445.5	443.6	441.7	436.0	430.2	426.4	419.7
65°	389.1	388.2	385.3	383.4	378.6	378.6	374.8	371.9	365.2	359.5	352.8
67.5°	326.0	324.1	324.1	324.1	318.4	317.4	315.5	309.8	304.0	296.4	290.6
70°	268.6	270.6	267.7	264.8	262.0	261.0	258.1	252.4	245.7	238.1	233.3
72.5°	214.2	216.1	213.2	212.2	206.5	204.6	203.6	198.9	191.2	186.4	178.8
75°	164.4	165.4	163.5	161.6	157.7	156.8	152.0	148.2	143.4	135.8	129.1
77.5°	118.5	116.6	116.6	112.8	109.0	109.0	108.0	102.3	95.6	89.9	84.1
80°	75.5	74.6	71.7	69.8	66.9	66.0	65.0	60.2	55.5	51.6	47.8
82.5°	38.2	37.3	36.3	35.4	33.5	31.5	32.5	28.7	26.8	22.9	20.1
85°	11.5	12.4	12.4	11.5	10.5	10.5	10.5	9.6	7.6	6.7	5.7
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°	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9
2.5°	2537.3	2538.3	2539.2	2540.2	2540.2	2541.1	2542.1	2543.1	2544.0	2544.0	2545.0
5°	2535.4	2537.3	2537.3	2538.3	2538.3	2538.3	2539.2	2539.2	2539.2	2539.2	2540.2
7.5°	2536.4	2536.4	2536.4	2535.4	2535.4	2534.4	2534.4	2534.4	2532.5	2532.5	2532.5
10°	2531.6	2530.6	2529.7	2527.8	2526.8	2525.8	2523.9	2522.0	2520.1	2519.2	2517.2
12.5°	2522.0	2518.2	2514.4	2510.5	2508.6	2507.7	2503.9	2501.0	2498.1	2495.3	2493.3
15°	2502.9	2497.2	2490.5	2482.8	2480.9	2479.0	2472.3	2466.6	2462.7	2459.9	2455.1
17.5°	2464.7	2453.2	2445.5	2434.1	2429.3	2427.4	2416.9	2411.1	2404.4	2402.5	2398.7
20°	2396.8	2386.3	2371.9	2361.4	2355.7	2349.9	2341.3	2333.7	2326.0	2326.0	2321.3
22.5°	2311.7	2298.3	2280.1	2266.8	2265.8	2254.3	2246.7	2238.1	2235.2	2229.5	2229.5
25°	2204.6	2193.1	2173.1	2161.6	2155.9	2153.0	2140.6	2129.1	2123.4	2118.6	2122.4
27.5°	2086.1	2068.9	2053.6	2039.2	2034.4	2028.7	2017.2	2012.5	2001.9	2001.0	2000.0
30°	1950.3	1933.1	1917.8	1911.1	1901.6	1896.8	1888.2	1882.4	1878.6	1878.6	1876.7
32.5°	1807.9	1792.6	1784.9	1770.6	1765.8	1759.1	1753.4	1747.6	1749.5	1747.6	1748.6
35°	1653.9	1650.1	1635.8	1627.2	1627.2	1626.2	1616.7	1612.8	1610.9	1611.9	1616.7
37.5°	1507.7	1496.2	1486.6	1480.9	1485.7	1479.9	1479.0	1479.0	1484.7	1480.9	1488.5
40°	1351.8	1350.9	1347.1	1349.0	1349.9	1343.2	1345.1	1346.1	1349.9	1357.6	1358.5
42.5°	1216.1	1215.1	1215.1	1215.1	1213.2	1209.4	1213.2	1219.9	1218.9	1224.7	1229.5
45°	1085.1	1083.2	1087.0	1084.1	1089.9	1091.8	1088.9	1090.8	1096.6	1100.4	1108.0
47.5°	965.6	965.6	966.6	968.5	962.7	967.5	969.4	973.2	976.1	978.0	981.8
50°	854.7	854.7	852.8	852.8	852.8	855.7	851.8	856.6	857.6	865.2	870.0
52.5°	752.4	747.6	750.5	748.6	744.8	742.8	744.8	745.7	751.4	753.4	759.1
55°	654.9	654.9	647.2	645.3	648.2	647.2	646.3	646.3	649.1	652.0	656.8
57.5°	568.8	563.1	557.4	556.4	553.5	554.5	554.5	553.5	551.6	552.6	553.5
60°	487.6	483.8	475.1	475.1	474.2	473.2	468.5	467.5	462.7	463.7	459.9
62.5°	413.0	411.1	399.6	395.8	395.8	392.9	388.2	387.2	380.5	380.5	376.7
65°	346.1	340.3	333.7	327.0	327.0	323.1	320.3	311.7	306.9	304.0	298.3
67.5°	284.9	276.3	269.6	263.9	260.0	259.1	252.4	246.7	239.0	234.2	225.6
70°	225.6	218.9	212.2	206.5	202.7	198.9	192.2	183.6	177.8	169.2	163.5
72.5°	170.2	164.4	158.7	151.1	146.3	143.4	136.7	129.1	119.5	113.8	106.1
75°	122.4	115.7	108.0	101.3	98.5	95.6	88.0	82.2	75.5	68.8	61.2
77.5°	79.4	71.7	66.0	58.3	57.4	55.5	47.8	42.1	37.3	33.5	28.7
80°	42.1	38.2	33.5	28.7	26.8	23.9	20.1	17.2	14.3	11.5	9.6
82.5°	18.2	15.3	12.4	10.5	9.6	8.6	6.7	5.7	4.8	4.8	3.8
85°	4.8	3.8	3.8	2.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
87.5°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0	1.0	1.0	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°	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9
2.5°	2545.9	2546.9	2547.8	2547.8	2548.8	2549.7	2549.7	2550.7	2551.7	2552.6	2552.6
5°	2541.1	2541.1	2541.1	2542.1	2542.1	2542.1	2542.1	2544.0	2544.0	2545.0	2545.9
7.5°	2531.6	2531.6	2531.6	2531.6	2530.6	2531.6	2530.6	2530.6	2532.5	2533.5	2534.4
10°	2516.3	2515.3	2515.3	2514.4	2514.4	2514.4	2515.3	2516.3	2517.2	2518.2	2521.1
12.5°	2492.4	2491.4	2491.4	2490.5	2490.5	2491.4	2492.4	2494.3	2498.1	2500.0	2503.9
15°	2454.1	2453.2	2454.1	2455.1	2457.0	2459.9	2462.7	2465.6	2471.4	2476.1	2480.9
17.5°	2398.7	2399.6	2400.6	2402.5	2405.4	2409.2	2416.9	2424.5	2431.2	2438.8	2446.5
20°	2322.2	2326.0	2327.0	2333.7	2335.6	2344.2	2352.8	2364.3	2374.8	2384.4	2394.9
22.5°	2230.4	2233.3	2237.1	2244.8	2249.6	2261.0	2271.5	2284.9	2296.4	2308.8	2324.1
25°	2126.2	2127.2	2138.7	2138.7	2150.1	2159.7	2172.1	2186.5	2203.7	2219.9	2230.4
27.5°	2007.7	2012.5	2021.1	2024.9	2033.5	2048.8	2059.3	2076.5	2093.7	2108.1	2119.5
30°	1883.4	1887.2	1901.6	1903.5	1910.2	1923.5	1937.9	1954.1	1967.5	1983.8	1994.3
32.5°	1752.4	1762.9	1771.5	1778.2	1780.1	1800.2	1807.9	1819.3	1834.6	1850.9	1861.4
35°	1625.3	1630.0	1642.5	1646.3	1652.0	1663.5	1678.8	1688.4	1696.0	1706.5	1719.0
37.5°	1490.5	1504.8	1507.7	1519.1	1521.1	1531.6	1539.2	1550.7	1560.2	1569.8	1571.7
40°	1365.2	1370.0	1380.5	1383.4	1385.3	1399.6	1409.2	1412.1	1416.8	1425.4	1436.9
42.5°	1238.1	1242.8	1254.3	1251.5	1260.1	1266.7	1271.5	1283.0	1287.8	1290.6	1290.6
45°	1112.8	1114.7	1122.4	1126.2	1131.0	1134.8	1143.4	1149.2	1151.1	1159.7	1162.5
47.5°	993.3	995.2	1001.0	1007.7	1005.7	1010.5	1020.1	1023.0	1023.9	1029.6	1032.5
50°	875.7	880.5	888.2	886.2	892.0	894.8	903.5	905.4	905.4	906.3	907.3
52.5°	765.8	769.6	771.5	773.4	776.3	781.1	784.9	783.0	786.8	790.6	787.8
55°	656.8	659.7	664.4	666.4	666.4	667.3	665.4	674.0	670.2	669.2	670.2
57.5°	557.4	553.5	552.6	557.4	559.3	558.3	555.5	559.3	559.3	557.4	554.5
60°	460.8	457.9	457.0	457.9	454.1	451.2	453.2	451.2	446.5	444.6	445.5
62.5°	372.9	370.0	362.3	362.3	360.4	359.5	351.8	352.8	349.0	343.2	345.1
65°	291.6	283.9	280.1	279.2	272.5	266.7	264.8	258.1	252.4	251.4	252.4
67.5°	218.9	210.3	203.6	200.8	196.9	192.2	185.5	179.7	181.6	180.7	184.5
70°	152.0	146.3	139.6	134.8	136.7	131.0	127.2	127.2	128.1	129.1	131.0
72.5°	101.3	93.7	90.8	88.0	86.0	82.2	84.1	84.1	83.2	84.1	82.2
75°	57.4	53.5	50.7	49.7	47.8	47.8	47.8	47.8	46.8	45.9	45.9
77.5°	25.8	23.9	22.9	22.0	22.0	22.0	21.0	20.1	20.1	20.1	19.1
80°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
82.5°	3.8	3.8	4.8	4.8	4.8	3.8	4.8	4.8	3.8	3.8	4.8
85°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
87.5°	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	0.0	1.0	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: P859175

CATALOG NUMBER: LX4C60D010 EX4C609027 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9
2.5°	2553.6	2554.5	2554.5	2554.5	2555.5	2555.5	2555.5	2555.5
5°	2546.9	2547.8	2547.8	2547.8	2548.8	2548.8	2548.8	2548.8
7.5°	2535.4	2536.4	2536.4	2537.3	2537.3	2538.3	2538.3	2539.2
10°	2522.0	2523.9	2524.9	2525.8	2526.8	2527.8	2527.8	2528.7
12.5°	2507.7	2509.6	2510.5	2512.5	2514.4	2515.3	2516.3	2517.2
15°	2486.6	2490.5	2492.4	2493.3	2497.2	2499.1	2500.0	2501.0
17.5°	2453.2	2460.8	2463.7	2465.6	2469.4	2473.3	2476.1	2477.1
20°	2405.4	2414.0	2417.8	2422.6	2428.3	2433.1	2435.0	2436.9
22.5°	2338.5	2348.0	2353.8	2359.5	2364.3	2369.1	2376.7	2373.8
25°	2242.9	2259.1	2265.8	2268.7	2279.2	2284.9	2288.7	2284.9
27.5°	2135.8	2145.3	2151.1	2157.8	2165.4	2171.2	2173.1	2178.8
30°	2006.7	2023.0	2022.0	2028.7	2038.3	2044.0	2045.9	2050.7
32.5°	1872.9	1880.5	1886.3	1885.3	1889.1	1899.6	1895.8	1904.4
35°	1730.4	1731.4	1740.9	1740.0	1747.6	1747.6	1747.6	1753.4
37.5°	1578.4	1589.9	1585.1	1596.6	1592.8	1595.6	1595.6	1597.5
40°	1439.8	1443.6	1443.6	1447.4	1450.3	1447.4	1449.3	1454.1
42.5°	1296.4	1300.2	1301.2	1299.3	1302.1	1310.7	1304.0	1309.8
45°	1162.5	1165.4	1169.2	1166.4	1171.1	1168.3	1171.1	1169.2
47.5°	1036.3	1035.4	1034.4	1042.1	1035.4	1036.3	1040.2	1033.5
50°	907.3	913.0	909.2	912.1	914.0	914.0	911.1	911.1
52.5°	792.6	791.6	788.7	791.6	789.7	790.6	792.6	790.6
55°	674.0	677.8	675.9	675.0	675.9	675.9	681.7	674.0
57.5°	557.4	555.5	558.3	565.0	558.3	563.1	566.0	566.9
60°	446.5	446.5	452.2	449.3	455.1	459.9	463.7	461.8
62.5°	340.3	345.1	347.0	348.0	353.7	357.6	357.6	356.6
65°	252.4	259.1	259.1	262.9	264.8	264.8	266.7	270.6
67.5°	186.4	186.4	187.4	189.3	188.3	188.3	190.3	191.2
70°	130.0	128.1	131.0	130.0	130.0	129.1	130.0	130.0
72.5°	82.2	82.2	83.2	82.2	80.3	81.3	81.3	83.2
75°	44.0	45.9	44.0	44.0	44.9	43.0	44.0	44.9
77.5°	18.2	18.2	18.2	18.2	18.2	17.2	17.2	17.2
80°	8.6	8.6	8.6	8.6	8.6	8.6	7.6	7.6
82.5°	3.8	4.8	3.8	4.8	3.8	3.8	3.8	3.8
85°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
87.5°	0.0	1.0	0.0	1.0	0.0	0.0	0.0	1.0
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)