

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P252728

Luminaire Tested: **LE_6B60D010R EC6B60708035 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252728
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B60D010R EC6B60708035 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7147.5 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

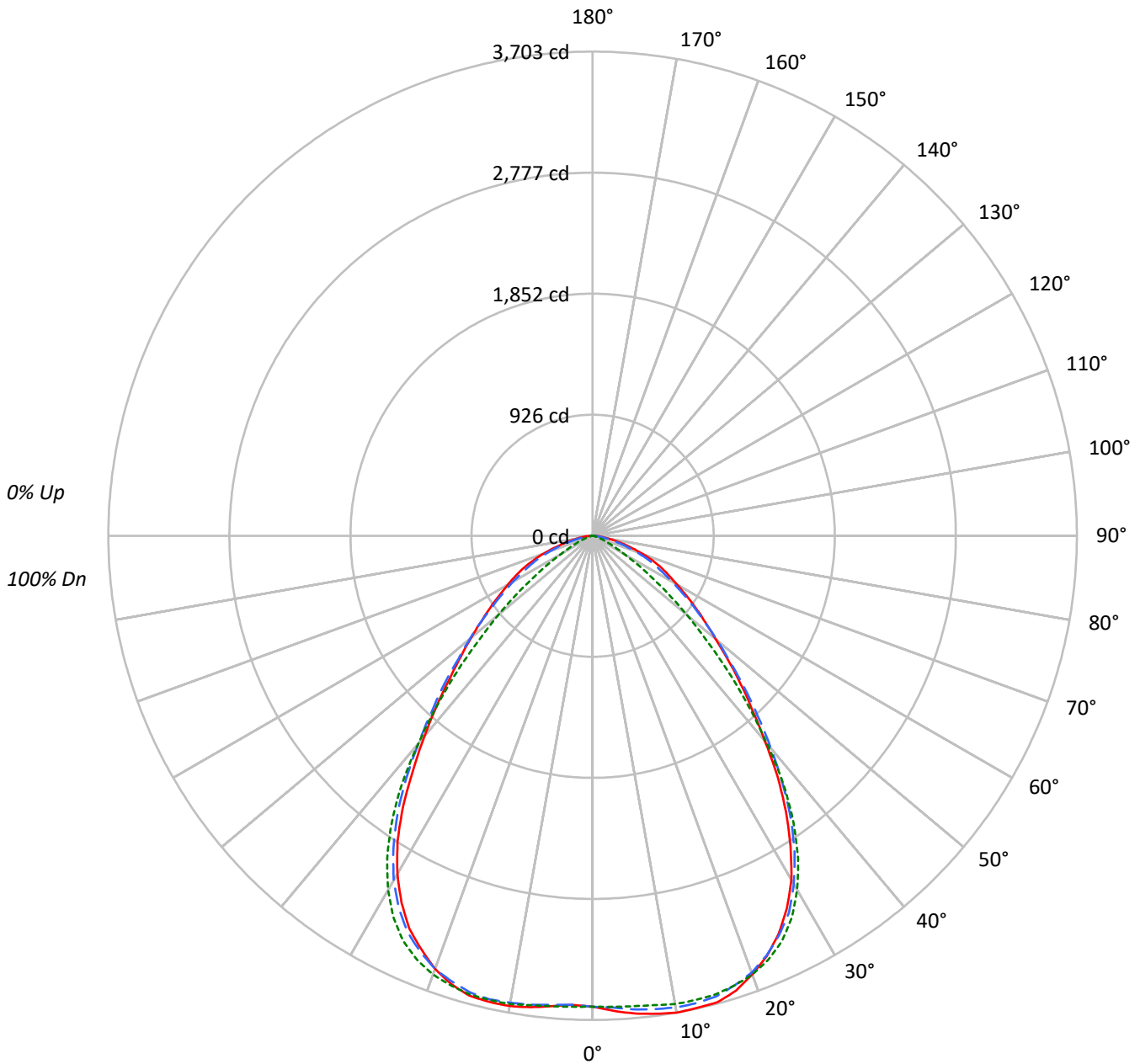
Input Watts (W): 62.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	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	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68																			
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61																			
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54																			
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48																			
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44																			
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	45	41	40																			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	234938	234938	234938
5°	240164	236497	236497
10°	245306	240927	241934
15°	249419	245286	245975
20°	247891	247891	244705
25°	241985	246390	238695
30°	229074	235598	224855
35°	205259	213375	201213
40°	174385	176548	170042
45°	147567	134881	142401
50°	124587	95122	123034
55°	109490	61410	108341
60°	97026	36548	97704
65°	89629	22014	89629
70°	77731	12628	75766
75°	61631	7688	57775
80°	45911	5711	43995
85°	41919	3818	38101



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.7	4.9
10°-20°	1026.1	14.4
20°-30°	1543.2	21.6
30°-40°	1622.5	22.7
40°-50°	1212.1	17.0
50°-60°	754.6	10.6
60°-70°	429.1	6.0
70°-80°	176.7	2.5
80°-90°	36.5	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°	2916.0	40.8
0°-40°	4538.5	63.5
0°-60°	6505.1	91.0
0°-90°	7147.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7147.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3601	3601	3601	3601	3601	
5°	3667	3637	3611	3601	3611	351
15°	3693	3647	3632	3616	3642	1038
25°	3362	3372	3423	3346	3316	1539
35°	2577	2644	2679	2603	2526	1599
45°	1599	1635	1462	1604	1543	1239
55°	963	942	540	927	952	866
65°	581	520	143	520	581	572
75°	244	194	30	188	229	266
85°	56	36	5	30	51	62
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°	3601.1	3601.1	3601.1	3601.1	3601.1	3601.1	3601.1	3601.1	3601.1	3601.1	3601.1
2.5°	3636.8	3631.6	3636.8	3626.5	3621.4	3621.4	3626.5	3616.4	3611.2	3616.4	3611.2
5°	3667.2	3657.1	3662.1	3657.1	3646.9	3646.9	3652.0	3636.8	3636.8	3641.8	3636.8
7.5°	3687.6	3687.6	3687.6	3677.5	3672.4	3667.2	3677.5	3662.1	3657.1	3657.1	3652.0
10°	3702.9	3697.9	3702.9	3692.8	3682.5	3677.5	3687.6	3677.5	3667.2	3677.5	3662.1
12.5°	3697.9	3697.9	3697.9	3692.8	3682.5	3677.5	3687.6	3672.4	3667.2	3672.4	3662.1
15°	3692.8	3677.5	3682.5	3677.5	3662.1	3662.1	3667.2	3652.0	3641.8	3657.1	3646.9
17.5°	3646.9	3636.8	3641.8	3631.6	3621.4	3616.4	3621.4	3616.4	3606.1	3616.4	3606.1
20°	3570.5	3570.5	3575.6	3565.4	3555.2	3550.1	3560.4	3550.1	3540.0	3555.2	3555.2
22.5°	3478.9	3478.9	3478.9	3473.8	3468.6	3468.6	3468.6	3463.5	3458.5	3468.6	3473.8
25°	3361.6	3356.6	3361.6	3366.8	3361.6	3356.6	3361.6	3361.6	3351.5	3371.9	3371.9
27.5°	3214.0	3214.0	3224.1	3219.0	3219.0	3214.0	3224.1	3224.1	3219.0	3234.4	3249.6
30°	3040.8	3030.6	3040.8	3040.8	3045.9	3045.9	3051.0	3051.0	3051.0	3066.2	3076.5
32.5°	2816.6	2821.8	2837.0	2832.0	2826.9	2842.1	2842.1	2852.4	2857.4	2867.6	2872.8
35°	2577.2	2582.4	2582.4	2587.5	2597.6	2587.5	2612.9	2607.9	2612.9	2633.2	2643.5
37.5°	2322.6	2307.4	2332.8	2322.6	2327.8	2327.8	2337.9	2343.0	2358.2	2383.8	2383.8
40°	2047.6	2052.6	2062.9	2067.9	2073.0	2073.0	2073.0	2088.2	2093.4	2124.0	2118.9
42.5°	1808.1	1808.1	1818.4	1823.5	1823.5	1823.5	1823.5	1838.8	1848.9	1859.1	1869.2
45°	1599.4	1584.0	1594.2	1594.2	1604.4	1599.4	1609.5	1619.8	1624.8	1640.1	1635.0
47.5°	1400.8	1395.6	1400.8	1405.8	1400.8	1405.8	1410.9	1416.0	1421.1	1421.1	1421.1
50°	1227.5	1227.5	1232.6	1237.8	1237.8	1237.8	1237.8	1242.8	1242.8	1253.0	1242.8
52.5°	1084.9	1090.0	1090.0	1084.9	1090.0	1090.0	1095.1	1095.1	1090.0	1090.0	1074.8
55°	962.6	957.6	962.6	957.6	962.6	962.6	957.6	957.6	952.5	947.4	942.2
57.5°	845.5	845.5	845.5	845.5	840.4	845.5	840.4	835.4	835.4	825.1	809.9
60°	743.6	743.6	743.6	743.6	743.6	738.5	743.6	738.5	728.4	718.1	697.8
62.5°	657.0	652.0	657.0	652.0	652.0	646.9	646.9	641.8	631.6	621.4	601.0
65°	580.6	585.8	580.6	580.6	575.5	570.5	570.5	565.4	550.1	539.9	519.5
67.5°	499.1	494.1	494.1	494.1	489.0	489.0	489.0	478.8	468.6	453.4	433.0
70°	407.5	407.5	407.5	402.4	402.4	397.2	397.2	392.2	382.0	371.9	346.4
72.5°	320.9	320.9	320.9	310.8	315.8	310.8	310.8	300.5	295.4	280.1	264.9
75°	244.5	244.5	239.4	239.4	234.2	229.2	229.2	224.1	219.0	208.9	193.5
77.5°	178.2	178.2	178.2	173.1	168.1	163.0	163.0	157.9	152.8	147.8	137.5
80°	122.2	122.2	122.2	122.2	117.1	112.0	112.0	107.0	107.0	101.9	91.6
82.5°	81.5	81.5	81.5	81.5	76.4	76.4	76.4	71.2	66.2	66.2	56.0
85°	56.0	56.0	50.9	50.9	50.9	50.9	45.9	45.9	40.8	35.6	35.6
87.5°	30.5	30.5	30.5	30.5	25.5	25.5	25.5	25.5	20.4	20.4	15.2
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°	3601.1	3601.1	3601.1	3601.1	3601.1	3601.1	3601.1	3601.1	3601.1	3601.1	3601.1
2.5°	3626.5	3626.5	3621.4	3606.1	3611.2	3606.1	3611.2	3606.1	3590.9	3606.1	3590.9
5°	3646.9	3652.0	3641.8	3621.4	3626.5	3621.4	3621.4	3616.4	3601.1	3611.2	3601.1
7.5°	3667.2	3662.1	3657.1	3636.8	3641.8	3636.8	3636.8	3626.5	3611.2	3621.4	3606.1
10°	3677.5	3677.5	3667.2	3646.9	3646.9	3641.8	3646.9	3641.8	3621.4	3636.8	3626.5
12.5°	3677.5	3672.4	3672.4	3646.9	3652.0	3646.9	3652.0	3641.8	3626.5	3636.8	3631.6
15°	3662.1	3662.1	3657.1	3631.6	3636.8	3636.8	3641.8	3631.6	3616.4	3631.6	3621.4
17.5°	3631.6	3631.6	3626.5	3606.1	3616.4	3616.4	3621.4	3611.2	3596.0	3606.1	3606.1
20°	3570.5	3575.6	3575.6	3560.4	3570.5	3570.5	3575.6	3570.5	3565.4	3570.5	3560.4
22.5°	3499.2	3509.4	3509.4	3494.1	3504.2	3504.2	3519.6	3514.5	3504.2	3509.4	3504.2
25°	3392.2	3402.4	3412.6	3402.4	3412.6	3412.6	3427.9	3422.8	3412.6	3422.8	3407.5
27.5°	3270.0	3275.1	3285.2	3275.1	3290.4	3285.2	3300.5	3295.5	3280.1	3295.5	3290.4
30°	3096.9	3117.1	3132.5	3117.1	3132.5	3132.5	3142.6	3137.5	3132.5	3127.4	3127.4
32.5°	2903.2	2923.6	2923.6	2918.5	2928.8	2928.8	2933.9	2923.6	2918.5	2923.6	2928.8
35°	2663.9	2674.0	2684.2	2679.1	2684.2	2689.4	2684.2	2689.4	2674.0	2679.1	2679.1
37.5°	2404.1	2414.2	2414.2	2399.0	2409.2	2409.2	2399.0	2399.0	2388.9	2399.0	2378.6
40°	2129.0	2118.9	2124.0	2113.8	2103.6	2103.6	2098.5	2078.1	2067.9	2073.0	2078.1
42.5°	1859.1	1859.1	1843.9	1818.4	1792.9	1792.9	1777.6	1767.4	1747.0	1757.2	1752.1
45°	1629.9	1604.4	1584.0	1543.4	1528.0	1517.9	1492.4	1466.9	1456.8	1461.9	1456.8
47.5°	1410.9	1390.5	1339.6	1283.5	1268.2	1253.0	1222.4	1191.9	1181.6	1171.5	1171.5
50°	1227.5	1191.9	1135.9	1074.8	1049.2	1023.8	983.0	952.5	932.1	937.2	937.2
52.5°	1059.4	1018.8	952.5	876.1	845.5	815.0	779.2	743.6	728.4	723.2	723.2
55°	911.8	865.9	799.6	713.1	687.6	652.0	606.1	565.4	545.0	539.9	550.1
57.5°	779.2	738.5	662.1	575.5	545.0	509.4	463.5	427.9	402.4	397.2	402.4
60°	672.4	616.2	550.1	468.6	427.9	397.2	346.4	315.8	290.4	280.1	285.2
62.5°	565.4	514.5	448.2	366.8	336.1	305.6	259.8	224.1	203.8	198.6	203.8
65°	483.9	433.0	371.9	300.5	270.0	239.4	198.6	163.0	147.8	142.6	147.8
67.5°	402.4	356.5	305.6	239.4	213.9	188.5	147.8	122.2	101.9	96.8	101.9
70°	326.0	285.2	234.2	188.5	163.0	142.6	112.0	86.6	71.2	66.2	71.2
72.5°	244.5	213.9	178.2	137.5	122.2	107.0	81.5	61.1	50.9	45.9	50.9
75°	178.2	152.8	127.4	96.8	86.6	76.4	56.0	40.8	35.6	30.5	35.6
77.5°	122.2	107.0	86.6	66.2	56.0	50.9	35.6	30.5	25.5	20.4	20.4
80°	81.5	71.2	56.0	45.9	40.8	35.6	25.5	20.4	15.2	15.2	15.2
82.5°	50.9	40.8	35.6	25.5	20.4	20.4	15.2	10.1	10.1	10.1	10.1
85°	30.5	25.5	20.4	15.2	10.1	10.1	5.1	5.1	5.1	5.1	5.1
87.5°	15.2	10.1	10.1	5.1	5.1	5.1	5.1	5.1	0.0	0.0	5.1
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°	3601.1	3601.1	3601.1	3601.1	3601.1	3601.1	3601.1	3601.1	3601.1	3601.1	3601.1
2.5°	3601.1	3590.9	3590.9	3596.0	3601.1	3606.1	3596.0	3590.9	3590.9	3606.1	3596.0
5°	3601.1	3596.0	3596.0	3596.0	3606.1	3611.2	3601.1	3596.0	3601.1	3616.4	3611.2
7.5°	3616.4	3606.1	3611.2	3611.2	3616.4	3626.5	3616.4	3611.2	3616.4	3631.6	3621.4
10°	3626.5	3616.4	3621.4	3616.4	3631.6	3636.8	3626.5	3621.4	3626.5	3646.9	3641.8
12.5°	3631.6	3626.5	3626.5	3621.4	3636.8	3641.8	3631.6	3626.5	3631.6	3646.9	3641.8
15°	3621.4	3616.4	3616.4	3616.4	3626.5	3636.8	3621.4	3616.4	3616.4	3631.6	3626.5
17.5°	3601.1	3590.9	3590.9	3590.9	3596.0	3601.1	3585.8	3580.8	3575.6	3590.9	3585.8
20°	3565.4	3555.2	3545.0	3545.0	3550.1	3550.1	3540.0	3524.6	3524.6	3529.8	3519.6
22.5°	3499.2	3494.1	3483.9	3478.9	3489.0	3483.9	3463.5	3448.2	3443.1	3448.2	3438.1
25°	3407.5	3397.4	3392.2	3387.1	3392.2	3387.1	3366.8	3346.4	3346.4	3346.4	3331.1
27.5°	3280.1	3270.0	3264.9	3264.9	3270.0	3259.8	3239.4	3219.0	3208.9	3208.9	3193.6
30°	3117.1	3117.1	3112.1	3107.0	3101.9	3101.9	3071.4	3051.0	3040.8	3045.9	3035.8
32.5°	2918.5	2913.5	2908.4	2893.1	2898.1	2893.1	2867.6	2852.4	2837.0	2826.9	2821.8
35°	2663.9	2663.9	2658.8	2658.8	2658.8	2653.6	2628.2	2612.9	2602.8	2597.6	2582.4
37.5°	2383.8	2378.6	2373.5	2373.5	2373.5	2373.5	2358.2	2343.0	2343.0	2337.9	2327.8
40°	2067.9	2073.0	2078.1	2073.0	2088.2	2103.6	2083.2	2073.0	2067.9	2083.2	2062.9
42.5°	1762.4	1757.2	1782.8	1787.8	1787.8	1813.2	1818.4	1823.5	1818.4	1828.5	1828.5
45°	1466.9	1461.9	1487.2	1497.5	1523.0	1553.5	1568.8	1594.2	1604.4	1614.6	1604.4
47.5°	1186.8	1207.1	1227.5	1253.0	1273.4	1324.2	1354.9	1380.4	1390.5	1405.8	1405.8
50°	952.5	972.9	1008.5	1028.9	1054.4	1115.5	1166.4	1202.0	1222.4	1237.8	1232.6
52.5°	733.5	769.1	815.0	835.4	871.0	942.2	998.4	1039.0	1064.5	1079.8	1084.9
55°	565.4	595.9	641.8	672.4	708.0	784.4	855.8	901.5	927.0	947.4	957.6
57.5°	417.6	453.4	504.2	529.8	570.5	657.0	718.1	774.2	804.8	830.2	835.4
60°	305.6	341.2	387.1	417.6	458.4	545.0	616.2	667.2	702.9	723.2	733.5
62.5°	219.0	254.6	300.5	331.1	366.8	443.1	514.5	565.4	601.0	626.5	641.8
65°	157.9	193.5	239.4	264.9	295.4	366.8	433.0	483.9	519.5	550.1	560.2
67.5°	117.1	142.6	183.4	208.9	239.4	295.4	351.5	397.2	433.0	458.4	468.6
70°	86.6	107.0	142.6	157.9	178.2	229.2	275.0	315.8	346.4	366.8	376.9
72.5°	61.1	76.4	101.9	117.1	132.4	173.1	208.9	239.4	259.8	280.1	290.4
75°	40.8	50.9	71.2	81.5	91.6	122.2	147.8	173.1	188.5	203.8	208.9
77.5°	25.5	35.6	50.9	56.0	66.2	81.5	101.9	117.1	127.4	137.5	147.8
80°	15.2	20.4	30.5	35.6	40.8	56.0	66.2	76.4	86.6	96.8	101.9
82.5°	10.1	15.2	20.4	20.4	25.5	30.5	40.8	50.9	56.0	61.1	66.2
85°	5.1	5.1	10.1	10.1	15.2	15.2	20.4	25.5	30.5	35.6	40.8
87.5°	5.1	5.1	5.1	5.1	10.1	10.1	15.2	15.2	15.2	20.4	20.4
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: P252728

CATALOG NUMBER: LE_6B60D010R EC6B60708035 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3601.1	3601.1	3601.1	3601.1	3601.1	3601.1	3601.1	3601.1
2.5°	3585.8	3601.1	3585.8	3596.0	3590.9	3590.9	3585.8	3590.9
5°	3601.1	3621.4	3601.1	3616.4	3606.1	3606.1	3606.1	3611.2
7.5°	3616.4	3636.8	3621.4	3636.8	3631.6	3626.5	3626.5	3636.8
10°	3631.6	3646.9	3636.8	3652.0	3646.9	3641.8	3641.8	3652.0
12.5°	3631.6	3652.0	3641.8	3657.1	3652.0	3646.9	3646.9	3652.0
15°	3616.4	3641.8	3626.5	3641.8	3636.8	3631.6	3631.6	3641.8
17.5°	3570.5	3590.9	3580.8	3590.9	3590.9	3585.8	3590.9	3596.0
20°	3509.4	3524.6	3514.5	3524.6	3524.6	3514.5	3519.6	3524.6
22.5°	3422.8	3438.1	3427.9	3438.1	3433.0	3427.9	3427.9	3422.8
25°	3315.9	3336.2	3320.9	3331.1	3320.9	3310.8	3310.8	3315.9
27.5°	3183.4	3198.6	3178.2	3188.5	3178.2	3168.1	3168.1	3163.0
30°	3010.2	3015.4	3000.0	3010.2	3000.0	2995.0	2984.8	2984.8
32.5°	2801.4	2806.5	2791.2	2791.2	2781.0	2781.0	2760.6	2775.9
35°	2556.9	2562.0	2556.9	2551.9	2536.5	2531.5	2526.4	2526.4
37.5°	2302.2	2302.2	2287.0	2281.9	2271.6	2261.5	2266.6	2251.2
40°	2042.5	2037.4	2022.1	2027.2	2022.1	2006.9	2001.8	1996.6
42.5°	1798.0	1798.0	1782.8	1787.8	1777.6	1772.5	1757.2	1762.4
45°	1584.0	1584.0	1568.8	1568.8	1563.6	1548.4	1553.5	1543.4
47.5°	1390.5	1390.5	1385.4	1385.4	1370.1	1365.0	1365.0	1365.0
50°	1222.4	1222.4	1222.4	1222.4	1217.4	1212.2	1207.1	1212.2
52.5°	1079.8	1090.0	1084.9	1084.9	1079.8	1074.8	1069.6	1069.6
55°	952.5	957.6	957.6	962.6	957.6	952.5	957.6	952.5
57.5°	840.4	850.6	850.6	850.6	850.6	850.6	845.5	840.4
60°	743.6	748.8	748.8	753.9	753.9	753.9	748.8	748.8
62.5°	646.9	657.0	662.1	662.1	667.2	662.1	662.1	662.1
65°	570.5	580.6	585.8	580.6	585.8	585.8	580.6	580.6
67.5°	478.8	489.0	489.0	489.0	489.0	494.1	489.0	489.0
70°	387.1	397.2	392.2	397.2	397.2	397.2	397.2	397.2
72.5°	295.4	300.5	305.6	305.6	310.8	305.6	305.6	305.6
75°	213.9	224.1	224.1	224.1	224.1	229.2	229.2	229.2
77.5°	152.8	157.9	157.9	163.0	163.0	163.0	163.0	168.1
80°	107.0	107.0	112.0	112.0	117.1	117.1	117.1	117.1
82.5°	71.2	76.4	76.4	76.4	76.4	76.4	76.4	76.4
85°	40.8	45.9	45.9	45.9	45.9	50.9	50.9	50.9
87.5°	25.5	25.5	25.5	25.5	25.5	25.5	20.4	20.4
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)