

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: P252200

Luminaire Tested: **LE_6B50D010R EC6B30509030 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252200
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B50D010R EC6B30509030 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7263.8 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

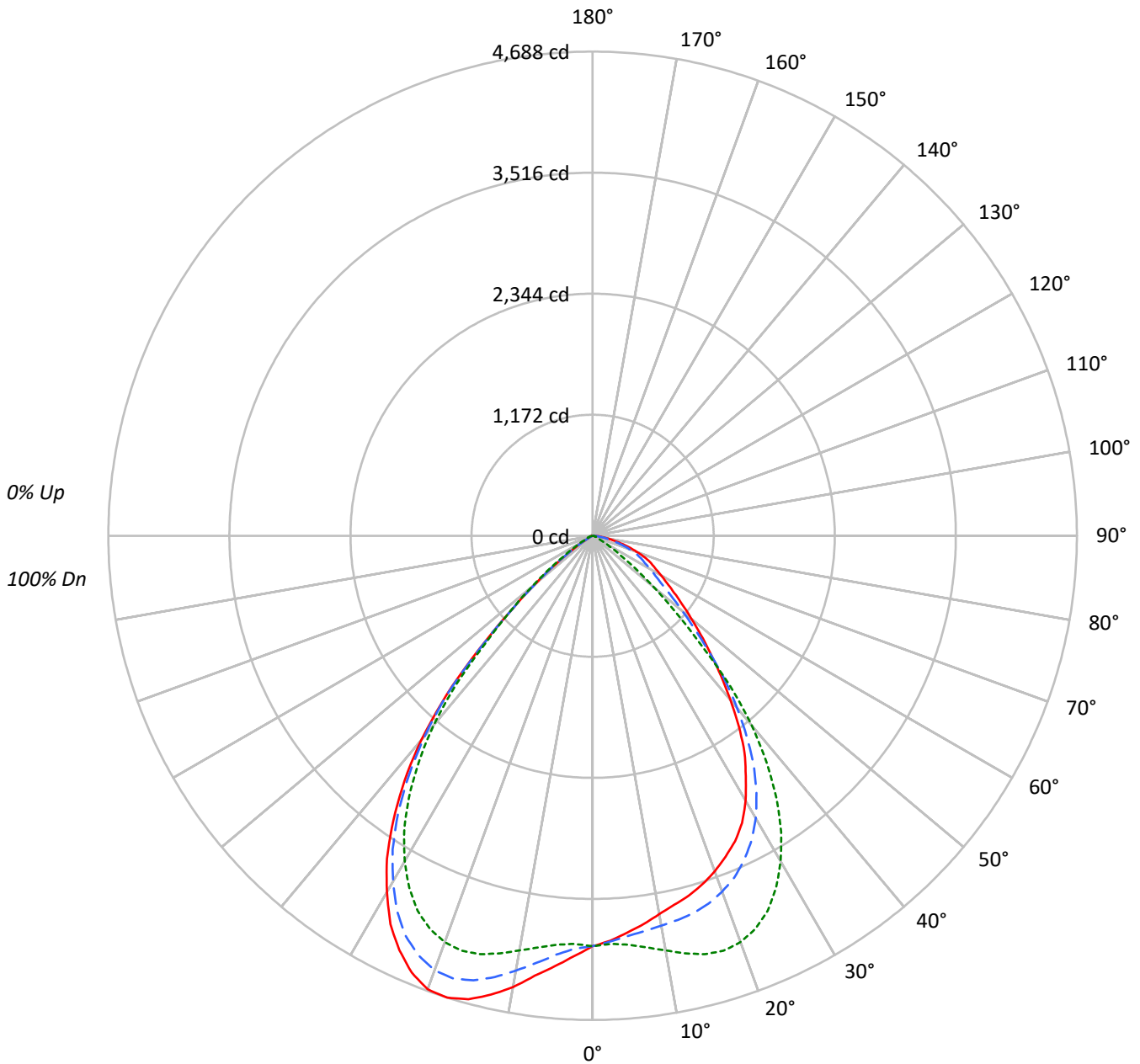
Input Watts (W): 58.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90				90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80				80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72				72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65				65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58				58
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53				53
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48				48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44				44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40				40
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	259260	259260	259260
5°	252535	260250	273931
10°	246386	270050	293965
15°	243516	283285	313814
20°	240018	290666	324428
25°	234916	288516	318599
30°	223228	274176	299940
35°	204239	247207	267779
40°	176650	204159	219693
45°	148970	133894	143711
50°	126475	77503	72874
55°	109763	37171	28095
60°	99153	17354	6929
65°	96174	9972	2346
70°	86238	7973	2175
75°	70857	5747	958
80°	52824	2855	0
85°	45512	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.8	5.3
10°-20°	1169.8	16.1
20°-30°	1787.3	24.6
30°-40°	1869.4	25.7
40°-50°	1212.7	16.7
50°-60°	481.5	6.6
60°-70°	228.4	3.1
70°-80°	108.6	1.5
80°-90°	22.2	0.3
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°	3341.0	46.0
0°-40°	5210.4	71.7
0°-60°	6904.6	95.1
0°-90°	7263.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7263.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3974	3974	3974	3974	3974	
5°	3856	3890	3974	4073	4183	364
15°	3605	3780	4194	4456	4646	1016
25°	3263	3469	4008	4278	4426	1494
35°	2564	2720	3104	3286	3362	1586
45°	1615	1599	1451	1539	1558	1256
55°	965	821	327	254	247	874
65°	623	517	65	15	15	609
75°	281	228	23	8	4	303
85°	61	38	0	0	0	71
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°	3973.9	3973.9	3973.9	3973.9	3973.9	3973.9	3973.9	3973.9	3973.9	3973.9	3973.9
2.5°	3924.5	3932.0	3890.2	3878.9	3909.2	3920.6	3924.5	3913.0	3916.9	3932.0	3932.0
5°	3856.1	3863.6	3825.6	3814.2	3844.6	3852.2	3863.6	3859.9	3871.2	3894.1	3890.2
7.5°	3791.5	3802.9	3761.1	3745.9	3783.9	3802.9	3810.5	3810.5	3825.6	3856.1	3859.9
10°	3719.2	3734.5	3696.5	3688.9	3730.8	3749.8	3753.5	3761.1	3783.9	3825.6	3833.2
12.5°	3658.5	3673.8	3647.1	3635.8	3681.4	3700.2	3707.9	3723.1	3749.8	3802.9	3810.5
15°	3605.4	3616.8	3586.4	3578.8	3624.4	3647.1	3650.9	3673.8	3707.9	3768.8	3780.1
17.5°	3537.0	3544.5	3521.8	3514.1	3559.8	3582.5	3586.4	3612.9	3654.8	3715.5	3734.5
20°	3457.1	3464.8	3442.0	3434.4	3480.0	3506.5	3510.4	3533.1	3582.5	3647.1	3666.1
22.5°	3362.2	3377.4	3350.8	3343.2	3388.8	3411.6	3423.0	3442.0	3491.4	3556.0	3582.5
25°	3263.4	3263.4	3244.4	3240.6	3282.4	3309.0	3305.2	3331.8	3381.1	3445.8	3468.6
27.5°	3134.2	3130.5	3111.5	3107.6	3153.2	3176.0	3168.5	3195.0	3240.6	3305.2	3328.0
30°	2963.2	2970.9	2944.2	2936.8	2974.6	3012.6	3008.9	3035.5	3081.0	3141.9	3157.0
32.5°	2758.1	2765.8	2761.9	2750.5	2784.8	2803.8	2815.1	2834.1	2872.1	2936.8	2951.9
35°	2564.4	2553.0	2537.8	2537.8	2572.0	2602.4	2591.0	2613.8	2651.8	2716.4	2720.1
37.5°	2325.0	2321.2	2313.6	2306.0	2344.0	2351.6	2355.4	2370.6	2404.9	2458.0	2450.4
40°	2074.2	2078.1	2074.2	2059.1	2081.9	2112.2	2108.5	2116.1	2146.5	2184.5	2173.1
42.5°	1838.8	1838.8	1838.8	1823.5	1850.1	1865.4	1873.0	1869.1	1876.8	1911.0	1895.8
45°	1614.6	1618.4	1614.6	1610.9	1614.6	1622.2	1614.6	1610.9	1610.9	1622.2	1599.4
47.5°	1420.9	1420.9	1409.5	1398.1	1409.5	1413.2	1401.9	1390.5	1386.6	1382.9	1344.9
50°	1246.1	1242.2	1238.5	1219.5	1230.9	1234.8	1219.5	1211.9	1196.8	1177.8	1132.1
52.5°	1094.1	1090.4	1086.5	1067.5	1075.1	1079.0	1063.8	1048.5	1029.5	1014.4	957.4
55°	965.0	961.1	961.1	949.8	942.1	949.8	934.6	923.1	896.6	877.6	820.6
57.5°	854.8	854.8	847.2	835.8	839.6	839.6	824.4	809.2	786.4	763.6	718.0
60°	759.9	759.9	759.9	748.4	748.4	748.4	740.9	725.6	706.6	683.9	638.2
62.5°	683.9	683.9	680.0	668.6	672.5	672.5	664.9	649.6	630.6	615.5	569.9
65°	623.0	623.0	623.0	611.6	611.6	615.5	607.9	592.6	577.5	558.5	516.6
67.5°	547.1	543.2	543.2	535.6	539.5	543.2	535.6	524.2	505.2	493.9	455.9
70°	452.1	455.9	459.8	448.2	452.1	452.1	448.2	436.9	425.5	414.1	379.9
72.5°	368.5	368.5	364.8	360.9	360.9	364.8	357.1	345.8	338.1	330.5	303.9
75°	281.1	277.4	281.1	273.5	273.5	273.5	265.9	262.1	258.4	247.0	228.0
77.5°	205.1	201.4	201.4	193.8	197.5	197.5	193.8	186.1	178.5	174.8	159.5
80°	140.6	140.6	140.6	136.8	136.8	133.0	133.0	129.1	121.6	117.8	110.1
82.5°	95.0	95.0	95.0	91.1	91.1	91.1	87.4	83.6	79.8	76.0	68.4
85°	60.8	60.8	60.8	57.0	57.0	57.0	53.1	53.1	49.4	45.6	38.0
87.5°	34.2	34.2	34.2	30.4	30.4	30.4	30.4	30.4	26.6	22.8	19.0
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°	3973.9	3973.9	3973.9	3973.9	3973.9	3973.9	3973.9	3973.9	3973.9	3973.9	3973.9
2.5°	3958.6	3905.5	3939.6	3939.6	3928.2	3958.6	3977.6	3992.9	3989.0	3954.9	3951.0
5°	3928.2	3882.6	3920.6	3924.5	3913.0	3954.9	3981.5	4000.5	4004.2	3973.9	3977.6
7.5°	3905.5	3867.5	3916.9	3932.0	3928.2	3966.2	3996.6	4027.0	4042.2	4019.4	4023.2
10°	3894.1	3863.6	3916.9	3939.6	3943.5	3985.2	4030.9	4072.6	4091.6	4076.4	4087.9
12.5°	3878.9	3859.9	3920.6	3954.9	3970.0	4011.9	4068.9	4118.2	4148.6	4141.0	4163.8
15°	3863.6	3848.5	3920.6	3970.0	3989.0	4027.0	4091.6	4163.8	4198.0	4194.2	4224.6
17.5°	3825.6	3821.9	3897.9	3951.0	3977.6	4023.2	4084.0	4171.4	4205.6	4213.1	4251.1
20°	3764.9	3764.9	3848.5	3905.5	3935.9	3977.6	4053.6	4137.2	4179.0	4186.6	4228.4
22.5°	3681.4	3688.9	3768.8	3825.6	3871.2	3901.6	3981.5	4068.9	4106.8	4118.2	4163.8
25°	3571.1	3578.8	3654.8	3711.8	3761.1	3795.2	3871.2	3951.0	3996.6	4008.0	4042.2
27.5°	3426.8	3442.0	3514.1	3571.1	3612.9	3635.8	3715.5	3799.1	3833.2	3844.6	3878.9
30°	3259.6	3263.4	3335.6	3385.0	3426.8	3445.8	3514.1	3601.5	3628.1	3639.5	3688.9
32.5°	3054.5	3050.6	3119.0	3164.6	3198.9	3221.6	3293.8	3350.8	3377.4	3396.4	3423.0
35°	2807.5	2803.8	2853.1	2906.2	2932.9	2940.5	3012.6	3073.5	3088.6	3103.9	3138.0
37.5°	2530.2	2530.2	2572.0	2598.6	2629.0	2640.4	2674.5	2743.0	2769.5	2765.8	2792.4
40°	2237.6	2222.5	2252.9	2279.5	2287.0	2290.9	2325.0	2378.2	2397.2	2397.2	2416.2
42.5°	1929.9	1907.1	1911.0	1926.1	1933.8	1907.1	1929.9	1964.1	1952.8	1967.9	1971.8
45°	1603.2	1569.0	1553.9	1519.6	1527.2	1500.6	1485.5	1493.0	1489.2	1451.2	1458.9
47.5°	1337.2	1276.5	1249.9	1200.5	1189.1	1158.8	1139.8	1105.5	1075.1	1075.1	1056.1
50°	1113.1	1052.4	999.1	942.1	923.1	896.6	854.8	809.2	786.4	763.6	744.6
52.5°	934.6	870.0	805.4	744.6	718.0	683.9	626.9	581.2	539.5	516.6	493.9
55°	790.2	718.0	649.6	585.0	550.9	516.6	459.8	406.5	357.1	326.8	307.8
57.5°	680.0	611.6	539.5	471.1	440.8	402.8	341.9	284.9	239.4	205.1	186.1
60°	600.2	531.9	467.2	395.1	364.8	326.8	262.1	209.0	163.4	133.0	110.1
62.5°	531.9	471.1	402.8	338.1	307.8	269.8	209.0	155.8	114.0	83.6	64.6
65°	482.5	421.8	364.8	300.1	273.5	235.5	178.5	129.1	91.1	64.6	45.6
67.5°	425.5	372.2	315.4	262.1	235.5	205.1	152.0	110.1	76.0	53.1	38.0
70°	357.1	315.4	265.9	216.5	197.5	171.0	125.4	91.1	60.8	41.8	30.4
72.5°	284.9	250.8	212.8	174.8	159.5	133.0	102.6	72.1	45.6	30.4	22.8
75°	216.5	190.0	159.5	133.0	117.8	102.6	76.0	53.1	34.2	22.8	15.2
77.5°	148.1	136.8	114.0	91.1	83.6	72.1	49.4	34.2	22.8	15.2	7.6
80°	102.6	91.1	76.0	60.8	53.1	45.6	30.4	22.8	11.4	7.6	3.8
82.5°	64.6	53.1	45.6	38.0	34.2	26.6	19.0	11.4	7.6	3.8	3.8
85°	34.2	30.4	26.6	19.0	19.0	15.2	11.4	7.6	3.8	0.0	0.0
87.5°	19.0	15.2	11.4	7.6	7.6	3.8	3.8	3.8	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°	3973.9	3973.9	3973.9	3973.9	3973.9	3973.9	3973.9	3973.9	3973.9	3973.9	3973.9
2.5°	3996.6	3996.6	3992.9	4038.4	3985.2	4038.4	4011.9	4038.4	4000.5	3996.6	4000.5
5°	4027.0	4038.4	4042.2	4084.0	4034.6	4099.2	4076.4	4099.2	4072.6	4080.2	4091.6
7.5°	4087.9	4106.8	4103.0	4156.2	4106.8	4179.0	4163.8	4198.0	4171.4	4179.0	4194.2
10°	4156.2	4179.0	4182.8	4236.0	4190.4	4277.8	4258.8	4296.8	4274.0	4285.4	4304.4
12.5°	4236.0	4262.6	4266.4	4327.1	4277.8	4369.0	4357.5	4395.5	4376.5	4388.0	4410.8
15°	4296.8	4334.8	4342.4	4403.1	4350.0	4444.9	4437.4	4486.8	4456.4	4475.4	4494.4
17.5°	4327.1	4361.4	4376.5	4433.5	4388.0	4482.9	4475.4	4517.1	4494.4	4513.4	4536.1
20°	4308.1	4350.0	4361.4	4418.4	4372.8	4467.8	4456.4	4498.1	4475.4	4490.5	4513.4
22.5°	4239.8	4281.6	4296.8	4350.0	4308.1	4395.5	4391.8	4429.8	4399.4	4418.4	4437.4
25°	4118.2	4163.8	4171.4	4220.8	4175.2	4266.4	4258.8	4300.6	4277.8	4289.1	4315.8
27.5°	3943.5	3996.6	4008.0	4049.9	4015.6	4091.6	4091.6	4125.8	4099.2	4099.2	4125.8
30°	3734.5	3787.8	3795.2	3829.5	3799.1	3867.5	3871.2	3905.5	3863.6	3886.5	3890.2
32.5°	3480.0	3514.1	3537.0	3567.4	3521.8	3609.1	3597.8	3624.4	3601.5	3601.5	3620.5
35°	3172.2	3214.0	3225.4	3263.4	3225.4	3293.8	3293.8	3309.0	3286.2	3286.2	3316.6
37.5°	2837.9	2868.2	2872.1	2910.1	2879.8	2936.8	2932.9	2944.2	2921.5	2936.8	2936.8
40°	2446.6	2469.4	2477.0	2496.0	2492.2	2534.0	2530.2	2537.8	2526.4	2530.2	2537.8
42.5°	1990.8	2021.1	2036.2	2051.5	2028.8	2085.8	2074.2	2085.8	2081.9	2085.8	2097.1
45°	1466.5	1489.2	1500.6	1504.5	1496.9	1531.0	1557.6	1534.9	1538.6	1531.0	1546.2
47.5°	1060.0	1063.8	1056.1	1079.0	1060.0	1075.1	1082.8	1086.5	1063.8	1060.0	1075.1
50°	725.6	744.6	718.0	729.4	725.6	740.9	733.2	737.0	714.2	725.6	718.0
52.5°	482.5	478.6	471.1	474.9	467.2	467.2	467.2	474.9	459.8	452.1	444.5
55°	292.5	284.9	269.8	265.9	265.9	269.8	262.1	254.5	254.5	250.8	250.8
57.5°	171.0	159.5	152.0	148.1	140.6	136.8	133.0	133.0	125.4	125.4	125.4
60°	95.0	83.6	76.0	68.4	68.4	64.6	60.8	57.0	57.0	57.0	53.1
62.5°	49.4	41.8	34.2	30.4	30.4	26.6	22.8	22.8	22.8	22.8	19.0
65°	34.2	26.6	22.8	19.0	19.0	15.2	15.2	15.2	15.2	15.2	15.2
67.5°	26.6	22.8	19.0	15.2	15.2	15.2	11.4	11.4	11.4	11.4	11.4
70°	22.8	15.2	15.2	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
72.5°	15.2	15.2	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
75°	11.4	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
77.5°	3.8	3.8	3.8	3.8	3.8	3.8	0.0	0.0	0.0	0.0	0.0
80°	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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: P252200

CATALOG NUMBER: LE_6B50D010R EC6B30509030 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3973.9	3973.9	3973.9	3973.9	3973.9	3973.9	3973.9	3973.9
2.5°	4034.6	4030.9	4034.6	4042.2	4027.0	4072.6	4049.9	4072.6
5°	4122.0	4125.8	4129.6	4141.0	4122.0	4179.0	4148.6	4182.8
7.5°	4236.0	4239.8	4243.6	4255.0	4243.6	4300.6	4266.4	4296.8
10°	4353.8	4361.4	4361.4	4380.4	4369.0	4422.1	4399.4	4437.4
12.5°	4463.9	4471.5	4479.1	4490.5	4482.9	4539.9	4520.9	4551.2
15°	4551.2	4566.5	4570.2	4585.5	4577.9	4638.6	4615.9	4646.2
17.5°	4593.1	4608.2	4608.2	4627.2	4619.8	4684.2	4653.9	4688.1
20°	4570.2	4581.8	4585.5	4604.5	4596.9	4661.5	4631.1	4672.9
22.5°	4498.1	4501.9	4505.8	4524.8	4520.9	4577.9	4551.2	4577.9
25°	4365.1	4376.5	4372.8	4388.0	4388.0	4433.5	4403.1	4425.9
27.5°	4175.2	4186.6	4186.6	4205.6	4190.4	4236.0	4205.6	4239.8
30°	3943.5	3954.9	3947.2	3962.5	3947.2	3992.9	3970.0	3981.5
32.5°	3666.1	3666.1	3669.9	3673.8	3666.1	3707.9	3685.1	3707.9
35°	3335.6	3343.2	3347.0	3350.8	3343.2	3373.6	3347.0	3362.2
37.5°	2963.2	2982.2	2978.5	2982.2	2970.9	3008.9	2986.1	2993.6
40°	2564.4	2564.4	2560.6	2568.1	2556.8	2587.1	2572.0	2579.6
42.5°	2100.9	2112.2	2097.1	2116.1	2085.8	2127.5	2112.2	2100.9
45°	1576.6	1561.4	1557.6	1561.4	1550.0	1553.9	1565.2	1557.6
47.5°	1075.1	1075.1	1067.5	1056.1	1071.4	1075.1	1060.0	1060.0
50°	721.9	721.9	714.2	710.4	718.0	714.2	706.6	718.0
52.5°	459.8	444.5	444.5	452.1	444.5	436.9	448.2	440.8
55°	250.8	243.1	243.1	250.8	243.1	243.1	239.4	247.0
57.5°	121.6	125.4	121.6	121.6	121.6	121.6	117.8	121.6
60°	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
62.5°	22.8	22.8	19.0	19.0	19.0	19.0	19.0	19.0
65°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
67.5°	11.4	11.4	11.4	11.4	11.4	15.2	11.4	11.4
70°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
72.5°	11.4	11.4	15.2	15.2	15.2	15.2	15.2	15.2
75°	7.6	7.6	7.6	3.8	3.8	3.8	3.8	3.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	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



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













(END OF REPORT)