

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: P#

Luminaire Tested: **LD4C75D010 EX4C759040 4LBSQLWWH**

Issue Date: 2/18/2022

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: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P219529)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C75D010 EX4C759040 4LBSQLWWH
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBSQLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

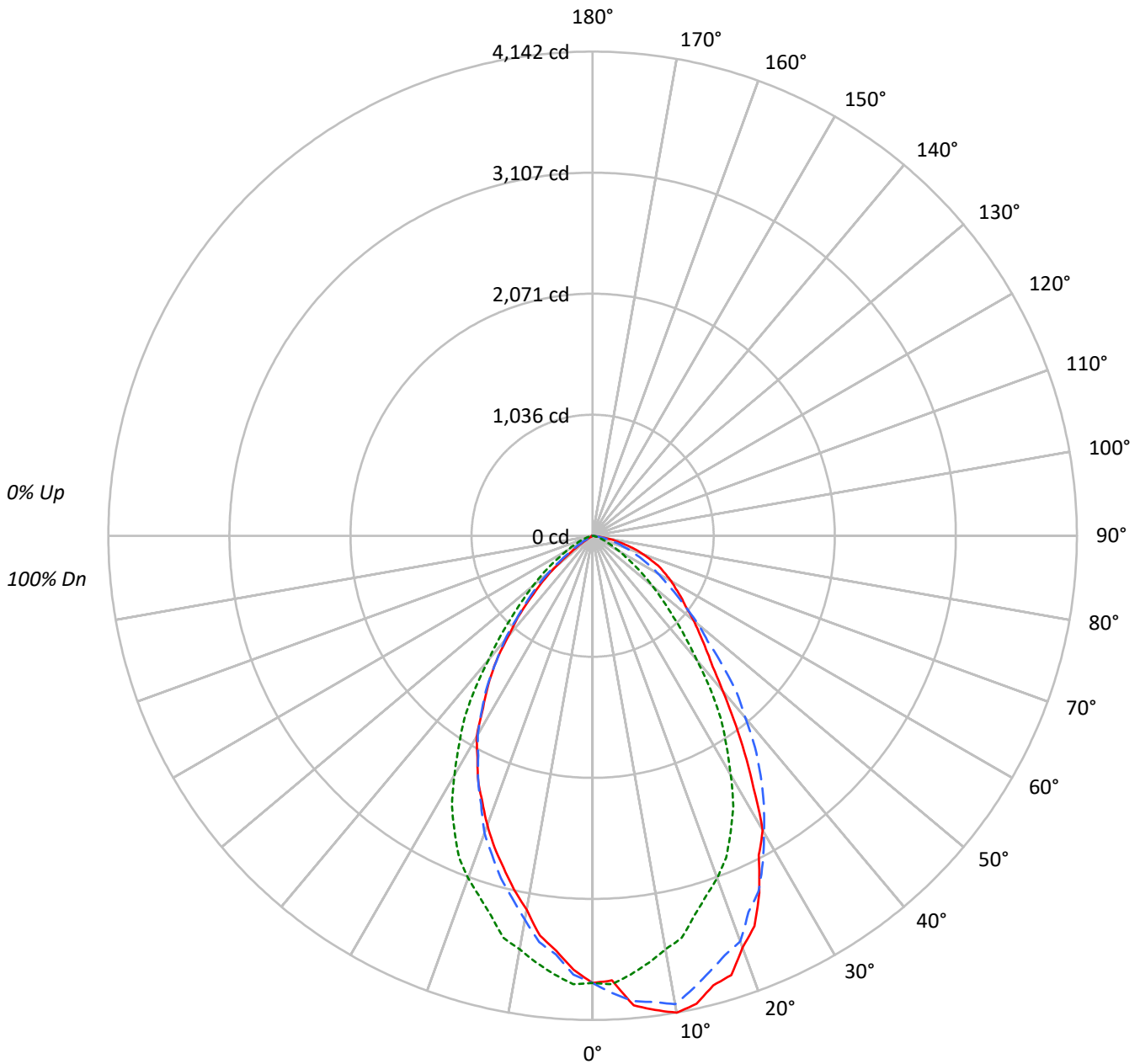
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5484.0 lumens
Efficiency: N/A
Efficacy: 67.3 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1 / 1.06
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 81.5
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									
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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64																			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	60	68	64	60	58																			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	54	53																			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48																			
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44																			
9	66	55	48	43	65	54	47	43	53	47	43	52	46	42	51	46	42	41																			
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	369147	369147	369147
5°	390558	364794	345239
10°	405862	351925	318211
15°	397753	335879	293724
20°	384839	319832	270370
25°	358974	297417	246634
30°	324053	263220	220804
35°	266927	225335	183177
40°	217843	173922	140984
45°	187163	132089	101414
50°	169399	100544	64052
55°	155892	72538	23164
60°	149616	49557	3531
65°	144522	33516	1073
70°	129406	23274	1326
75°	106063	12004	0
80°	66290	5112	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.5	6.5
10°-20°	965.7	17.6
20°-30°	1289.6	23.5
30°-40°	1224.2	22.3
40°-50°	846.2	15.4
50°-60°	467.5	8.5
60°-70°	232.2	4.2
70°-80°	91.5	1.7
80°-90°	8.7	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°	2613.7	47.7
0°-40°	3837.9	70.0
0°-60°	5151.6	93.9
0°-90°	5484.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5484.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3826	3826	3826	3826	3826	
5°	4032	3996	3766	3596	3564	386
15°	3982	3863	3362	3032	2940	1126
25°	3372	3358	2794	2317	2317	1537
35°	2266	2505	1913	1574	1555	1420
45°	1372	1574	968	794	743	1070
55°	927	872	431	220	138	834
65°	633	459	147	5	5	614
75°	284	174	32	0	0	303
85°	0	5	0	0	0	26
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°	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8
2.5°	3807.4	3912.9	3922.1	3912.9	3926.8	3922.1	3945.1	3922.1	3949.8	3908.4	3917.6
5°	4032.3	3990.9	4078.1	4032.3	4032.3	4027.8	4013.9	4009.3	4027.8	3968.1	3995.6
7.5°	4091.9	4151.6	4229.6	4133.3	4137.8	4137.8	4110.3	4101.1	4101.1	3990.9	4023.1
10°	4142.4	4105.6	4146.9	4110.3	4142.4	4137.8	4156.1	4096.4	4137.8	4073.6	4068.9
12.5°	4101.1	4087.3	4142.4	4082.8	4064.4	4068.9	4046.1	4032.3	4046.1	3972.6	3968.1
15°	3981.8	3995.6	4078.1	4013.9	4004.8	3995.6	3968.1	3922.1	3958.9	3857.9	3862.6
17.5°	3940.6	3917.6	3931.4	3876.3	3890.1	3880.9	3876.3	3835.1	3825.8	3761.6	3761.6
20°	3747.9	3798.3	3798.3	3761.6	3761.6	3757.1	3697.4	3734.1	3692.8	3674.4	3692.8
22.5°	3614.8	3619.4	3619.4	3587.3	3591.9	3573.6	3541.4	3518.4	3541.4	3518.4	3481.8
25°	3371.8	3380.9	3435.9	3376.3	3367.1	3385.4	3357.9	3344.1	3339.6	3284.6	3357.9
27.5°	3078.1	3169.8	3165.3	3142.3	3169.8	3133.1	3119.5	3123.9	3137.8	3133.1	3151.4
30°	2908.5	2922.1	2936.0	2917.6	2922.1	2908.5	2908.5	2913.0	2949.6	2936.0	2931.3
32.5°	2564.3	2610.1	2647.0	2647.0	2651.5	2665.3	2660.6	2757.0	2780.0	2734.1	2725.0
35°	2266.1	2298.3	2330.3	2335.0	2394.6	2399.1	2403.8	2431.3	2495.5	2509.3	2504.6
37.5°	1981.8	2013.8	2023.0	2064.3	2096.5	2128.5	2165.3	2202.0	2257.0	2302.8	2280.0
40°	1729.5	1743.1	1766.1	1784.5	1848.6	1848.6	1867.0	1940.5	2000.1	2036.8	2032.1
42.5°	1518.5	1523.0	1541.3	1573.5	1633.1	1619.3	1633.1	1683.6	1770.6	1775.3	1825.8
45°	1371.6	1367.0	1380.8	1385.3	1422.1	1440.5	1449.6	1486.3	1559.6	1568.8	1573.5
47.5°	1238.7	1234.0	1257.0	1266.1	1279.8	1298.1	1298.1	1302.8	1330.3	1353.3	1335.0
50°	1128.5	1128.5	1128.5	1137.6	1160.7	1156.0	1160.7	1179.0	1192.6	1183.5	1179.0
52.5°	1009.1	1027.5	1041.3	1046.0	1050.5	1050.5	1055.2	1046.0	1041.3	1027.5	1000.0
55°	926.7	945.0	945.0	945.0	945.0	963.3	940.5	945.0	945.0	908.3	871.7
57.5°	844.2	862.5	876.1	857.8	876.1	857.8	848.7	844.2	834.8	798.1	743.2
60°	775.3	784.5	779.8	775.3	784.5	770.7	761.5	743.2	734.0	683.5	646.8
62.5°	697.3	701.8	706.5	697.3	688.2	683.5	665.2	637.7	619.3	578.0	545.8
65°	633.0	619.3	614.7	610.2	601.0	587.2	573.5	541.3	527.5	490.8	458.7
67.5°	536.7	532.2	541.3	527.5	504.7	504.7	490.8	463.3	431.2	408.3	376.2
70°	458.7	454.2	445.0	431.2	426.7	408.3	408.3	376.2	367.0	325.7	298.2
72.5°	376.2	376.2	362.3	348.7	334.8	325.7	321.2	298.2	284.5	261.5	238.5
75°	284.5	284.5	279.8	266.0	256.8	247.7	243.2	224.8	211.0	188.2	174.3
77.5°	201.8	201.8	183.5	174.3	178.8	169.7	160.5	156.0	151.3	137.7	119.3
80°	119.3	114.7	101.0	105.5	101.0	101.0	96.3	91.7	82.5	73.3	64.2
82.5°	32.2	36.7	36.7	36.7	41.3	32.2	32.2	32.2	36.7	36.7	23.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	4.7	4.7
87.5°	4.7	9.2	18.3	18.3	18.3	18.3	18.3	13.8	13.8	13.8	9.2
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°	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8
2.5°	3871.8	3867.1	3871.8	3839.6	3912.9	3857.9	3848.8	3839.6	3871.8	3839.6	3793.8
5°	3954.3	3908.4	3894.6	3880.9	3922.1	3857.9	3844.3	3848.8	3825.8	3766.3	3770.8
7.5°	3981.8	3940.6	3899.3	3812.1	3848.8	3835.1	3798.3	3770.8	3734.1	3683.6	3674.4
10°	3990.9	3945.1	3885.4	3857.9	3802.9	3784.6	3770.8	3724.9	3679.1	3591.9	3568.9
12.5°	3963.4	3908.4	3835.1	3812.1	3770.8	3711.1	3679.1	3633.1	3591.9	3523.1	3472.6
15°	3844.3	3798.3	3775.4	3697.4	3679.1	3642.3	3578.1	3513.9	3454.3	3362.4	3334.9
17.5°	3706.6	3688.3	3665.3	3605.6	3601.1	3564.4	3504.8	3449.6	3371.8	3229.4	3183.6
20°	3564.4	3564.4	3490.9	3468.1	3513.9	3440.4	3394.6	3344.1	3183.6	3114.8	3032.3
22.5°	3458.9	3408.4	3367.1	3330.4	3334.9	3289.1	3224.9	3123.9	3064.3	2981.8	2885.5
25°	3252.4	3270.8	3179.1	3165.3	3179.1	3073.4	3041.5	2958.8	2871.6	2793.6	2720.3
27.5°	3123.9	3073.4	3014.0	2963.5	2963.5	2922.1	2830.5	2812.1	2679.0	2605.6	2513.8
30°	2931.3	2894.6	2844.1	2770.8	2761.6	2729.5	2656.1	2610.1	2472.6	2362.5	2312.0
32.5°	2688.1	2674.5	2633.1	2550.6	2523.1	2486.3	2394.6	2316.6	2252.5	2128.5	2069.0
35°	2513.8	2463.5	2376.3	2307.5	2284.5	2220.3	2146.8	2091.8	2023.0	1913.0	1835.0
37.5°	2252.5	2202.0	2119.3	2036.8	2036.8	1972.6	1871.6	1816.6	1720.3	1656.0	1591.8
40°	2023.0	1958.8	1876.3	1780.0	1766.1	1674.3	1633.1	1541.3	1481.6	1380.8	1371.6
42.5°	1766.1	1706.5	1633.1	1559.6	1504.6	1458.8	1353.3	1284.5	1220.3	1169.8	1156.0
45°	1532.1	1454.1	1390.0	1298.1	1243.1	1188.1	1119.3	1073.5	1023.0	968.0	935.8
47.5°	1330.3	1266.1	1174.3	1091.8	1036.8	1009.1	931.1	880.8	839.5	802.8	779.8
50°	1124.0	1046.0	995.5	903.6	894.5	830.3	766.2	724.8	701.8	669.8	637.7
52.5°	968.0	894.5	825.6	757.0	720.2	697.3	637.7	596.3	564.3	541.3	523.0
55°	816.5	752.3	697.3	628.5	605.5	573.5	504.7	495.5	463.3	431.2	408.3
57.5°	701.8	642.2	578.0	532.2	490.8	468.0	412.8	376.2	357.8	330.3	307.3
60°	596.3	532.2	481.7	426.7	408.3	376.2	334.8	302.8	279.8	256.8	234.0
62.5°	500.0	445.0	390.0	344.0	316.5	298.2	266.0	238.5	215.7	197.3	178.8
65°	412.8	362.3	316.5	270.7	256.8	234.0	211.0	188.2	169.7	146.8	128.5
67.5°	339.5	293.7	247.7	215.7	201.8	192.7	165.2	142.2	128.5	114.7	96.3
70°	266.0	234.0	197.3	169.7	156.0	142.2	123.8	110.2	91.7	82.5	68.8
72.5°	206.5	178.8	146.8	123.8	114.7	105.5	87.2	73.3	64.2	55.0	45.8
75°	146.8	123.8	105.5	82.5	78.0	73.3	59.7	50.5	41.3	32.2	27.5
77.5°	101.0	82.5	64.2	55.0	50.5	41.3	36.7	27.5	23.0	18.3	13.8
80°	55.0	41.3	32.2	27.5	23.0	18.3	18.3	13.8	9.2	9.2	4.7
82.5°	18.3	13.8	9.2	4.7	4.7	4.7	4.7	4.7	4.7	0.0	4.7
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°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	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°	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8
2.5°	3821.3	3770.8	3784.6	3784.6	3775.4	3775.4	3766.3	3752.4	3757.1	3729.4	3669.9
5°	3779.9	3715.8	3706.6	3715.8	3679.1	3669.9	3651.6	3679.1	3596.4	3628.6	3591.9
7.5°	3660.8	3601.1	3587.3	3619.4	3573.6	3545.9	3541.4	3578.1	3504.8	3468.1	3426.8
10°	3527.6	3504.8	3463.4	3440.4	3426.8	3431.3	3394.6	3348.8	3334.9	3325.8	3289.1
12.5°	3408.4	3357.9	3321.3	3293.8	3284.6	3284.6	3224.9	3215.8	3174.4	3165.3	3110.3
15°	3266.1	3206.6	3183.6	3147.0	3114.8	3133.1	3064.3	3045.9	3032.3	2972.6	2981.8
17.5°	3142.3	3078.1	3023.1	3000.1	2972.6	2945.1	2880.8	2894.6	2862.4	2862.4	2780.0
20°	2981.8	2913.0	2871.6	2825.8	2825.8	2789.1	2743.3	2747.8	2706.4	2665.3	2591.8
22.5°	2812.1	2738.6	2688.1	2669.8	2624.0	2614.8	2559.8	2546.0	2491.0	2495.5	2431.3
25°	2633.1	2559.8	2491.0	2495.5	2454.3	2436.0	2403.8	2339.6	2316.6	2289.1	2270.8
27.5°	2422.1	2371.6	2312.0	2307.5	2229.5	2234.0	2192.8	2174.5	2119.3	2133.1	2091.8
30°	2229.5	2156.1	2101.0	2087.3	2055.1	2046.0	1981.8	1954.1	1963.5	1926.6	1903.8
32.5°	2032.1	1922.1	1899.1	1871.6	1853.3	1830.3	1784.5	1802.8	1761.5	1770.6	1734.0
35°	1770.6	1724.8	1665.1	1665.1	1646.8	1628.5	1596.5	1614.8	1573.5	1555.1	1518.5
37.5°	1550.5	1509.3	1449.6	1468.0	1435.8	1408.3	1380.8	1385.3	1348.6	1344.1	1307.3
40°	1312.0	1289.0	1247.8	1247.8	1224.8	1224.8	1211.0	1197.3	1174.3	1146.8	1105.5
42.5°	1087.1	1068.8	1050.5	1055.2	1023.0	1050.5	1013.8	1036.8	963.3	958.8	931.1
45°	922.0	880.8	885.3	867.0	848.7	857.8	825.6	834.8	793.7	784.5	757.0
47.5°	747.8	734.0	706.5	697.3	697.3	683.5	669.8	665.2	646.8	623.8	587.2
50°	614.7	564.3	555.0	541.3	532.2	532.2	513.8	486.3	490.8	468.0	431.2
52.5°	481.7	440.3	422.0	417.5	399.2	390.0	367.0	348.7	334.8	325.7	302.8
55°	371.5	334.8	312.0	312.0	284.5	284.5	252.3	238.5	220.2	201.8	188.2
57.5°	279.8	261.5	238.5	220.2	211.0	188.2	169.7	146.8	133.0	105.5	87.2
60°	211.0	192.7	169.7	156.0	146.8	123.8	101.0	82.5	50.5	41.3	36.7
62.5°	156.0	137.7	114.7	105.5	96.3	78.0	55.0	27.5	13.8	13.8	13.8
65°	114.7	91.7	73.3	64.2	55.0	41.3	18.3	9.2	4.7	4.7	4.7
67.5°	78.0	59.7	41.3	36.7	27.5	13.8	4.7	4.7	4.7	4.7	4.7
70°	50.5	36.7	18.3	13.8	9.2	4.7	4.7	4.7	4.7	4.7	4.7
72.5°	32.2	18.3	9.2	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	18.3	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.2	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.7	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	4.7	4.7	4.7
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: P#

CATALOG NUMBER: LD4C75D010 EX4C759040 4LBSQLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8	3825.8
2.5°	3734.1	3701.9	3720.3	3679.1	3697.4	3729.4	3706.6	3715.8
5°	3605.6	3587.3	3564.4	3504.8	3550.6	3587.3	3568.9	3564.4
7.5°	3468.1	3403.8	3435.9	3417.6	3408.4	3445.1	3403.8	3449.6
10°	3325.8	3279.9	3275.5	3243.3	3243.3	3270.8	3275.5	3247.8
12.5°	3114.8	3092.0	3092.0	3087.3	3082.6	3110.3	3114.8	3101.1
15°	2963.5	2954.3	2931.3	2926.8	2899.3	2940.4	2945.1	2940.4
17.5°	2780.0	2784.4	2761.6	2761.6	2780.0	2793.6	2757.0	2793.6
20°	2656.1	2633.1	2624.0	2582.6	2605.6	2628.6	2628.6	2633.1
22.5°	2477.1	2440.5	2454.3	2431.3	2417.5	2449.6	2449.6	2463.5
25°	2275.3	2275.3	2284.5	2270.8	2280.0	2298.3	2284.5	2316.6
27.5°	2082.6	2101.0	2101.0	2082.6	2091.8	2146.8	2169.8	2133.1
30°	1903.8	1908.3	1922.1	1913.0	1940.5	1958.8	1954.1	1981.8
32.5°	1702.0	1724.8	1734.0	1720.3	1729.5	1770.6	1747.8	1743.1
35°	1546.0	1504.6	1500.1	1504.6	1523.0	1532.1	1523.0	1555.1
37.5°	1321.1	1307.3	1289.0	1293.6	1307.3	1325.8	1335.0	1357.8
40°	1105.5	1087.1	1087.1	1082.7	1068.8	1119.3	1119.3	1119.3
42.5°	917.5	912.8	890.0	890.0	908.3	922.0	912.8	945.0
45°	752.3	734.0	720.2	720.2	734.0	734.0	747.8	743.2
47.5°	591.8	573.5	578.0	564.3	578.0	596.3	573.5	578.0
50°	445.0	445.0	435.8	445.0	440.3	445.0	435.8	426.7
52.5°	302.8	344.0	348.7	330.3	289.0	252.3	229.3	247.7
55°	174.3	156.0	156.0	151.3	142.2	137.7	123.8	137.7
57.5°	87.2	78.0	78.0	78.0	73.3	68.8	59.7	59.7
60°	36.7	32.2	32.2	27.5	23.0	18.3	13.8	18.3
62.5°	13.8	9.2	9.2	9.2	9.2	9.2	9.2	9.2
65°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
67.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
70°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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



Report Generated By 670246072 / DESKTOP-50001EG





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













(END OF REPORT)