

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: P248421

Luminaire Tested: **LD8B120D010 ER8B120927 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248421
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B120D010 ER8B120927 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10149.8 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

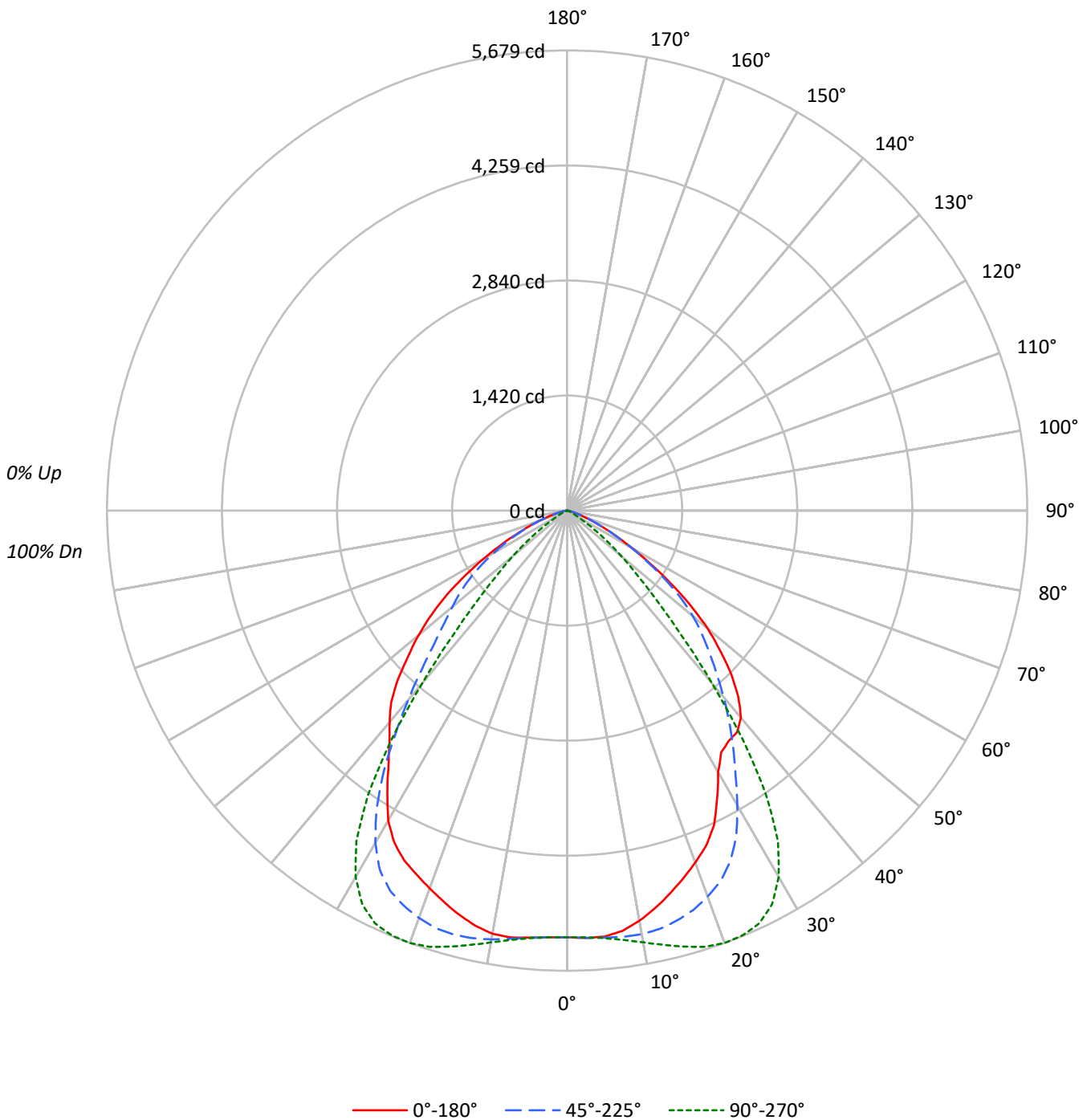
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	100	102	99	97	98	96	94	94	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.4	5.0
10°-20°	1500.0	14.8
20°-30°	2288.4	22.5
30°-40°	2388.0	23.5
40°-50°	1793.7	17.7
50°-60°	1103.6	10.9
60°-70°	449.1	4.4
70°-80°	105.8	1.0
80°-90°	14.6	0.1
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°	4294.8	42.3
0°-40°	6682.9	65.8
0°-60°	9580.2	94.4
0°-90°	10149.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10149.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5265	5265	5265	5265	5265	
5°	5277	5290	5296	5290	5290	499
15°	4894	5237	5570	5416	5162	1379
25°	4287	4768	5618	5173	4762	1949
35°	3474	3572	4279	3955	3843	2193
45°	2868	2482	1548	2311	2957	2188
55°	1548	1470	405	1470	1814	1392
65°	484	489	61	657	696	504
75°	84	84	11	148	154	101
85°	8	8	3	20	25	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5265.3	5265.3	5265.3	5265.3	5265.3	5265.3	5265.3	5265.3	5265.3	5265.3	5265.3
2.5°	5279.4	5271.0	5279.4	5279.4	5282.1	5276.6	5279.4	5282.1	5276.6	5276.6	5276.6
5°	5276.6	5271.0	5276.6	5273.8	5279.4	5279.4	5284.9	5284.9	5290.5	5290.5	5298.9
7.5°	5231.8	5220.7	5231.8	5240.2	5245.8	5257.0	5271.0	5282.1	5293.3	5304.5	5318.4
10°	5139.6	5139.6	5148.0	5164.8	5181.5	5201.1	5226.2	5254.2	5282.1	5307.3	5332.4
12.5°	5025.0	5016.6	5033.4	5055.8	5081.0	5111.7	5150.8	5192.7	5237.4	5287.7	5326.9
15°	4893.6	4885.2	4904.8	4927.2	4958.0	5002.7	5050.2	5106.0	5170.4	5237.4	5301.7
17.5°	4759.5	4756.7	4776.3	4807.0	4832.2	4879.7	4941.2	5008.2	5081.0	5170.4	5254.2
20°	4622.6	4619.8	4639.4	4664.5	4698.0	4742.8	4804.2	4882.5	4969.1	5069.7	5167.6
22.5°	4480.0	4482.8	4499.6	4527.6	4555.5	4602.9	4667.3	4745.6	4840.5	4949.6	5058.6
25°	4287.2	4273.2	4295.6	4323.6	4371.0	4410.1	4471.7	4555.5	4653.3	4767.9	4896.4
27.5°	4007.7	4004.9	4024.5	4049.7	4091.5	4139.1	4206.2	4292.8	4396.2	4521.9	4647.7
30°	3728.2	3733.8	3742.2	3767.4	3795.3	3842.8	3909.9	3982.6	4080.4	4200.5	4334.7
32.5°	3538.1	3538.1	3549.4	3566.1	3585.7	3610.9	3658.4	3711.5	3787.0	3870.8	3968.6
35°	3473.9	3462.8	3473.9	3476.7	3479.5	3485.1	3493.5	3510.2	3535.3	3571.8	3608.1
37.5°	3446.0	3437.6	3437.6	3426.4	3412.5	3395.7	3373.3	3348.1	3320.2	3283.9	3256.0
40°	3337.0	3331.4	3325.7	3314.6	3283.9	3250.4	3214.0	3155.3	3091.0	3001.6	2912.2
42.5°	3127.4	3121.8	3119.0	3096.6	3068.7	3029.5	2987.7	2926.1	2845.1	2730.5	2601.9
45°	2867.5	2856.3	2847.9	2828.4	2808.7	2775.3	2736.1	2680.2	2599.1	2481.8	2328.1
47.5°	2565.6	2560.0	2557.2	2548.9	2529.3	2509.6	2484.6	2439.9	2367.1	2255.4	2096.1
50°	2260.9	2249.8	2255.4	2252.6	2244.3	2230.3	2213.4	2182.7	2126.8	2026.2	1880.9
52.5°	1911.6	1911.6	1908.9	1917.2	1920.0	1917.2	1920.0	1886.5	1838.9	1763.4	1640.5
55°	1548.2	1548.2	1556.7	1567.9	1579.0	1581.9	1579.0	1565.1	1531.6	1470.0	1361.0
57.5°	1207.4	1201.7	1218.5	1235.2	1246.5	1257.6	1249.2	1238.1	1218.5	1168.2	1084.4
60°	919.5	919.5	930.6	941.8	953.0	964.2	961.4	958.6	941.8	908.3	841.3
62.5°	676.4	679.2	679.2	687.5	698.6	709.9	718.2	709.9	701.4	679.2	634.4
65°	483.5	480.7	483.5	491.8	500.3	511.4	517.1	514.2	505.8	489.0	455.6
67.5°	324.2	321.4	332.6	335.4	341.0	352.1	349.4	352.1	349.4	335.4	307.5
70°	212.4	206.8	212.4	209.6	218.0	220.8	226.4	229.2	226.4	218.0	209.6
72.5°	131.4	128.6	131.4	134.2	137.0	139.7	145.4	145.4	142.5	137.0	125.8
75°	83.8	75.4	78.2	72.7	78.2	78.2	83.8	86.6	83.8	83.8	78.2
77.5°	50.3	50.3	50.3	50.3	50.3	50.3	50.3	53.1	55.9	50.3	47.5
80°	25.2	25.2	28.0	28.0	28.0	30.8	28.0	28.0	28.0	30.8	22.4
82.5°	19.6	16.8	16.8	16.8	19.6	16.8	16.8	16.8	16.8	16.8	16.8
85°	8.4	11.1	8.4	5.6	8.4	8.4	11.1	8.4	8.4	8.4	11.1
87.5°	2.8	2.8	0.0	0.0	0.0	2.8	0.0	2.8	2.8	5.6	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	5265.3	5265.3	5265.3	5265.3	5265.3	5265.3	5265.3	5265.3	5265.3	5265.3	5265.3
2.5°	5279.4	5273.8	5273.8	5271.0	5276.6	5271.0	5273.8	5271.0	5271.0	5276.6	5271.0
5°	5298.9	5301.7	5296.0	5293.3	5301.7	5301.7	5301.7	5296.0	5296.0	5298.9	5296.0
7.5°	5326.9	5332.4	5335.2	5338.0	5343.6	5346.4	5346.4	5343.6	5340.8	5349.3	5338.0
10°	5357.6	5366.0	5382.8	5391.1	5405.1	5405.1	5410.7	5410.7	5405.1	5410.7	5407.9
12.5°	5346.4	5396.7	5424.6	5444.2	5463.8	5480.6	5486.2	5489.0	5486.2	5497.3	5486.2
15°	5366.0	5407.9	5452.7	5486.2	5522.4	5542.0	5547.6	5570.0	5575.6	5578.4	5561.7
17.5°	5335.2	5410.7	5458.2	5508.4	5561.7	5598.0	5631.4	5645.5	5648.3	5653.8	5631.4
20°	5265.3	5349.3	5421.8	5494.5	5556.0	5612.0	5639.8	5679.0	5667.9	5690.2	5659.4
22.5°	5170.4	5265.3	5357.6	5452.7	5516.9	5584.0	5642.7	5670.6	5684.6	5684.6	5651.0
25°	5019.4	5131.2	5231.8	5329.6	5427.4	5508.4	5575.6	5617.5	5625.9	5623.1	5584.0
27.5°	4784.6	4904.8	5022.2	5134.0	5254.2	5349.3	5427.4	5477.7	5491.8	5491.8	5449.8
30°	4460.5	4589.0	4703.6	4837.7	4960.8	5067.0	5175.9	5220.7	5245.8	5245.8	5198.3
32.5°	4074.8	4183.8	4290.0	4421.4	4555.5	4675.6	4779.1	4840.5	4871.2	4868.6	4826.6
35°	3655.6	3708.7	3789.8	3887.6	4007.7	4119.5	4220.1	4278.8	4331.9	4329.1	4290.0
37.5°	3236.3	3222.3	3230.8	3267.1	3342.5	3420.8	3499.1	3555.0	3599.7	3619.2	3610.9
40°	2825.5	2752.9	2683.0	2657.8	2663.4	2691.3	2733.3	2775.3	2825.5	2850.8	2861.9
42.5°	2456.7	2333.7	2210.6	2118.5	2065.3	2048.5	2068.1	2082.0	2112.9	2149.2	2185.5
45°	2160.3	1995.5	1833.4	1690.9	1601.4	1548.2	1537.1	1548.2	1565.1	1601.4	1648.9
47.5°	1917.2	1724.4	1542.7	1383.4	1252.0	1182.3	1162.7	1157.1	1173.8	1207.4	1271.6
50°	1702.0	1509.2	1307.9	1123.4	986.6	908.3	880.4	869.2	888.8	913.8	972.6
52.5°	1467.2	1277.2	1070.4	891.6	749.0	668.0	637.2	620.4	631.6	665.2	723.8
55°	1213.0	1036.8	849.6	665.2	528.2	452.8	416.4	405.2	416.4	452.8	511.4
57.5°	958.6	810.4	654.0	480.7	357.8	282.3	245.9	234.8	265.5	279.4	341.0
60°	749.0	628.9	494.7	352.1	245.9	187.2	151.0	142.5	156.5	181.6	232.0
62.5°	561.8	486.2	380.0	251.6	181.6	120.2	100.6	92.2	100.6	120.2	159.3
65°	408.0	349.4	265.5	184.4	123.0	89.4	67.0	61.4	69.9	83.8	117.4
67.5°	279.4	234.8	184.4	128.6	83.8	55.9	47.5	47.5	50.3	61.4	86.6
70°	181.6	153.7	117.4	83.8	55.9	42.0	36.3	30.8	36.3	44.8	58.7
72.5°	114.6	97.8	75.4	58.7	42.0	30.8	25.2	22.4	28.0	33.5	44.8
75°	69.9	53.1	39.2	30.8	22.4	22.4	22.4	11.1	14.0	22.4	28.0
77.5°	42.0	36.3	30.8	25.2	19.6	11.1	11.1	11.1	14.0	16.8	25.2
80°	22.4	19.6	14.0	14.0	11.1	8.4	11.1	8.4	5.6	14.0	16.8
82.5°	14.0	11.1	11.1	11.1	14.0	5.6	8.4	5.6	8.4	11.1	8.4
85°	8.4	8.4	8.4	5.6	14.0	5.6	5.6	2.8	2.8	5.6	5.6
87.5°	0.0	2.8	2.8	0.0	2.8	0.0	2.8	2.8	2.8	2.8	2.8
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	5265.3	5265.3	5265.3	5265.3	5265.3	5265.3	5265.3	5265.3	5265.3	5265.3	5265.3
2.5°	5273.8	5271.0	5273.8	5271.0	5271.0	5271.0	5273.8	5273.8	5271.0	5271.0	5276.6
5°	5296.0	5296.0	5296.0	5293.3	5290.5	5290.5	5296.0	5296.0	5287.7	5296.0	5296.0
7.5°	5343.6	5335.2	5343.6	5332.4	5326.9	5329.6	5332.4	5326.9	5321.2	5324.1	5324.1
10°	5405.1	5396.7	5396.7	5388.3	5380.0	5374.3	5368.8	5354.8	5340.8	5338.0	5326.9
12.5°	5477.7	5463.8	5455.5	5438.6	5424.6	5405.1	5388.3	5366.0	5338.0	5318.4	5298.9
15°	5550.4	5528.0	5508.4	5480.6	5449.8	5416.2	5380.0	5343.6	5298.9	5259.8	5226.2
17.5°	5609.1	5578.4	5542.0	5497.3	5452.7	5402.2	5349.3	5296.0	5231.8	5181.5	5142.4
20°	5628.6	5584.0	5536.5	5477.7	5419.0	5349.3	5282.1	5212.2	5139.6	5086.5	5041.8
22.5°	5603.5	5550.4	5491.8	5430.3	5352.0	5276.6	5198.3	5117.2	5052.9	4980.3	4938.4
25°	5533.7	5469.4	5405.1	5332.4	5257.0	5173.2	5089.3	5005.5	4927.2	4888.0	4835.0
27.5°	5391.1	5321.2	5251.4	5175.9	5089.3	5005.5	4918.8	4837.7	4770.7	4717.6	4686.9
30°	5139.6	5058.6	4977.4	4896.4	4821.0	4734.3	4653.3	4586.2	4519.1	4477.2	4446.4
32.5°	4753.9	4681.2	4600.2	4521.9	4452.1	4379.4	4312.3	4253.6	4206.2	4178.1	4155.9
35°	4234.0	4161.4	4100.0	4044.0	3985.3	3954.6	3912.8	3879.1	3859.5	3848.4	3845.6
37.5°	3580.1	3538.1	3518.7	3507.4	3496.3	3488.0	3493.5	3507.4	3518.7	3538.1	3560.5
40°	2881.5	2917.7	2928.9	2968.1	3004.3	3051.9	3105.0	3166.5	3216.7	3281.1	3325.7
42.5°	2244.3	2311.3	2389.5	2473.3	2562.9	2649.5	2755.7	2853.5	2942.9	3023.9	3093.9
45°	1724.4	1827.8	1945.1	2065.3	2185.5	2311.3	2439.9	2560.0	2666.2	2752.9	2825.5
47.5°	1344.3	1458.9	1609.8	1757.9	1903.3	2051.3	2193.9	2319.6	2409.1	2492.9	2557.2
50°	1064.8	1196.2	1361.0	1531.6	1690.9	1847.4	1998.2	2115.7	2205.1	2272.2	2319.6
52.5°	824.4	981.0	1148.6	1327.5	1498.0	1668.5	1808.2	1917.2	1989.9	2048.5	2084.8
55°	614.8	768.6	947.5	1131.9	1305.2	1470.0	1601.4	1696.5	1760.7	1794.3	1813.8
57.5°	444.4	584.1	763.0	947.5	1104.0	1260.4	1366.6	1453.3	1489.6	1509.2	1517.5
60°	324.2	452.8	612.0	771.4	919.5	1045.2	1137.5	1196.2	1224.1	1235.2	1232.4
62.5°	237.6	349.4	486.2	620.4	740.6	844.0	916.6	955.8	969.9	975.4	967.0
65°	181.6	268.3	385.7	489.0	581.3	656.8	709.9	735.1	743.4	740.6	735.1
67.5°	134.2	201.3	287.9	366.1	433.2	491.8	519.9	542.2	547.8	539.4	531.0
70°	95.1	148.2	209.6	262.7	313.0	346.6	377.3	380.0	380.0	377.3	371.7
72.5°	67.0	103.4	142.5	178.9	209.6	234.8	245.9	254.4	251.6	248.7	243.2
75°	44.8	64.2	103.4	111.8	139.7	148.2	159.3	159.3	162.1	153.7	153.7
77.5°	28.0	44.8	61.4	72.7	83.8	95.1	100.6	100.6	103.4	100.6	100.6
80°	16.8	28.0	33.5	50.3	50.3	58.7	61.4	64.2	58.7	67.0	58.7
82.5°	11.1	16.8	25.2	25.2	30.8	36.3	36.3	39.2	39.2	36.3	36.3
85°	8.4	11.1	14.0	16.8	16.8	19.6	16.8	16.8	19.6	22.4	19.6
87.5°	2.8	5.6	2.8	5.6	5.6	11.1	8.4	8.4	8.4	11.1	11.1
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: P248421

CATALOG NUMBER: LD8B120D010 ER8B120927 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	5265.3	5265.3	5265.3	5265.3
2.5°	5271.0	5273.8	5271.0	5271.0
5°	5296.0	5293.3	5296.0	5290.5
7.5°	5315.6	5315.6	5312.8	5312.8
10°	5315.6	5304.5	5304.5	5304.5
12.5°	5273.8	5259.8	5251.4	5245.8
15°	5201.1	5175.9	5164.8	5162.0
17.5°	5106.0	5083.7	5069.7	5061.4
20°	4997.0	4974.8	4958.0	4960.8
22.5°	4902.0	4876.9	4865.7	4860.1
25°	4807.0	4776.3	4767.9	4762.3
27.5°	4653.3	4636.6	4628.1	4619.8
30°	4418.6	4410.1	4396.2	4415.7
32.5°	4147.4	4133.5	4122.3	4130.7
35°	3848.4	3840.0	3848.4	3842.8
37.5°	3574.6	3582.9	3594.2	3599.7
40°	3359.4	3390.1	3401.2	3406.8
42.5°	3144.2	3180.5	3202.8	3216.7
45°	2878.6	2914.9	2940.1	2957.0
47.5°	2604.7	2635.5	2660.6	2657.8
50°	2356.0	2372.7	2383.9	2395.1
52.5°	2104.4	2104.4	2107.2	2107.2
55°	1819.5	1813.8	1811.0	1813.8
57.5°	1506.4	1500.9	1498.0	1489.6
60°	1221.3	1204.5	1193.4	1193.4
62.5°	955.8	936.2	927.9	925.1
65°	718.2	715.4	698.6	695.9
67.5°	519.9	508.6	497.5	500.3
70°	366.1	349.4	349.4	343.8
72.5°	237.6	229.2	226.4	226.4
75°	148.2	148.2	142.5	153.7
77.5°	97.8	97.8	95.1	97.8
80°	58.7	58.7	58.7	55.9
82.5°	36.3	39.2	36.3	36.3
85°	19.6	22.4	16.8	25.2
87.5°	11.1	14.0	11.1	14.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)