

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: P246108

Luminaire Tested: **LD8B10D010 ER8B10830 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B10D010 ER8B10830 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 984.0 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

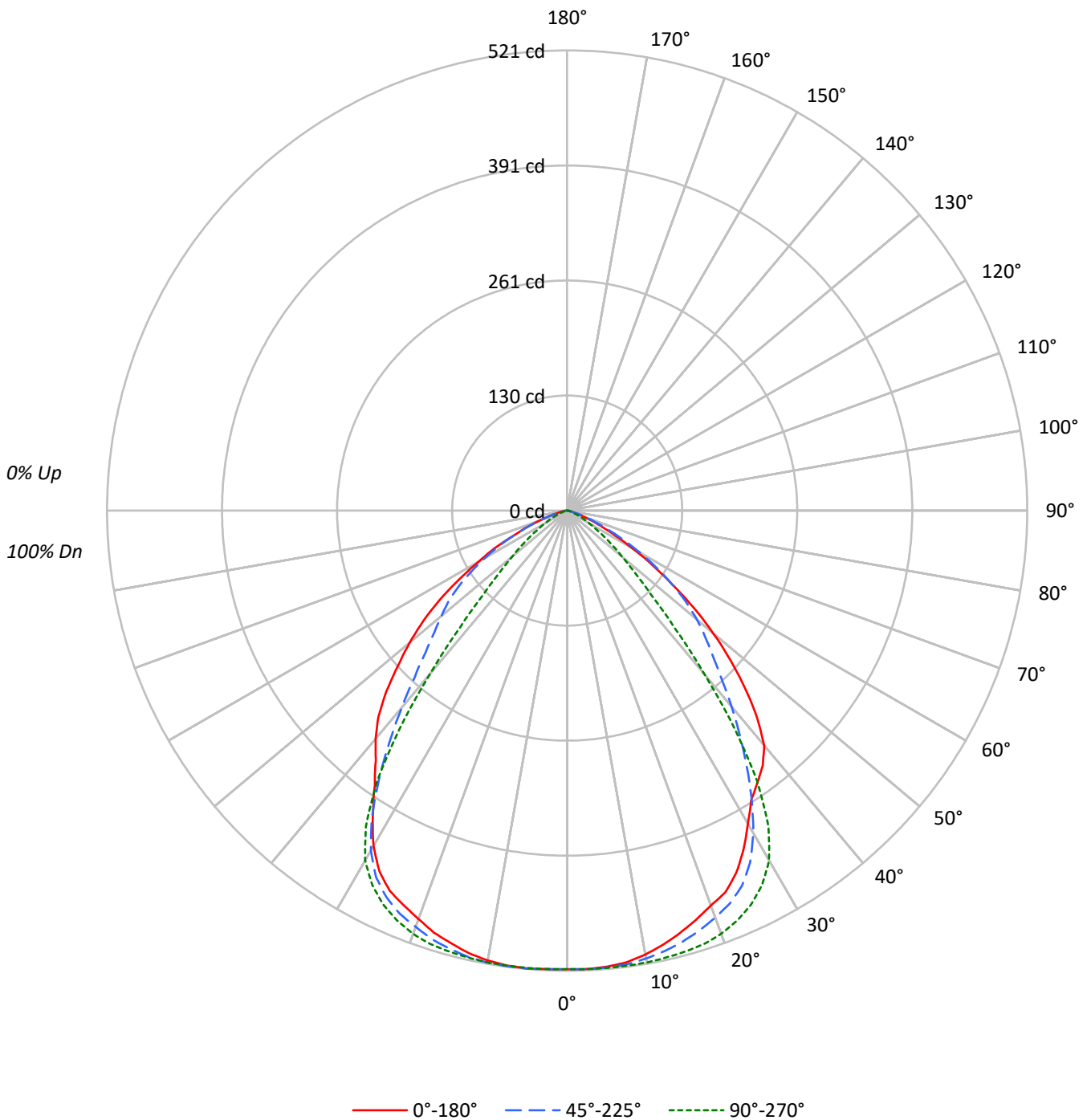
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P246108

CATALOG NUMBER: LD8B10D010 ER8B10830 8LBDW0B

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	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	16010	16010	16010
5°	16044	16087	16105
10°	15979	16267	16195
15°	15799	16502	16192
20°	15610	16736	16148
25°	15410	16753	16165
30°	14577	16283	15617
35°	14143	14150	14297
40°	13968	9737	13574
45°	12446	5844	12616
50°	10348	3891	11149
55°	7763	2683	9451
60°	5261	1789	7136
65°	3174	1160	4903
70°	1758	631	3011
75°	798	262	1561
80°	693	302	1083
85°	778	389	1097



TEST NUMBER: P246108

CATALOG NUMBER: LD8B10D010 ER8B10830 8LBDW0B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.5	5.0
10°-20°	143.9	14.6
20°-30°	218.4	22.2
30°-40°	229.4	23.3
40°-50°	172.0	17.5
50°-60°	110.3	11.2
60°-70°	47.2	4.8
70°-80°	11.2	1.1
80°-90°	2.1	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°	411.8	41.9
0°-40°	641.2	65.2
0°-60°	923.6	93.9
0°-90°	984.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	984.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	519	519	519	519	519	
5°	518	519	520	521	520	49
15°	495	505	517	514	507	140
25°	453	469	492	484	475	207
35°	376	355	376	372	380	236
45°	285	233	134	227	289	219
55°	144	144	50	150	176	131
65°	44	51	16	66	67	46
75°	7	8	2	13	13	10
85°	2	1	1	2	3	2
90°	0	0	0	0	0	



TEST NUMBER: P246108

CATALOG NUMBER: LD8B10D010 ER8B10830 8LBDW0B

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	519.2	519.2	519.2	519.2	519.2	519.2	519.2	519.2	519.2	519.2	519.2
2.5°	519.5	520.0	519.7	519.7	519.5	519.7	519.7	520.3	520.3	519.7	519.5
5°	518.3	518.9	518.9	518.3	518.3	519.7	518.9	519.5	519.5	519.2	519.2
7.5°	515.8	515.8	516.9	516.1	516.1	516.9	516.7	517.2	517.8	518.1	518.1
10°	510.3	510.8	511.1	511.1	511.4	512.2	512.8	513.9	514.4	515.0	515.3
12.5°	503.3	504.1	504.4	504.1	505.0	506.1	507.5	508.9	509.7	510.8	511.7
15°	494.9	494.9	495.5	496.3	496.9	498.6	499.9	501.6	503.8	505.2	506.6
17.5°	485.7	486.3	487.1	487.1	488.2	491.0	491.9	494.4	496.9	498.3	501.1
20°	475.7	476.3	477.1	477.7	479.0	481.3	482.9	485.2	488.0	490.5	493.3
22.5°	467.9	466.8	467.3	467.9	469.3	471.2	473.2	476.0	478.8	481.3	484.1
25°	452.9	453.1	454.0	454.5	456.2	457.9	460.1	463.4	466.0	468.7	471.8
27.5°	432.5	432.8	434.2	434.2	435.6	438.4	439.8	442.5	445.9	448.7	452.3
30°	409.4	409.9	409.9	411.1	411.9	413.3	414.7	417.5	419.1	421.6	426.7
32.5°	388.2	388.8	388.5	388.2	387.4	387.1	386.8	387.4	387.9	388.8	390.7
35°	375.7	374.3	373.2	371.2	369.0	366.2	363.7	360.3	357.3	354.8	352.0
37.5°	363.7	363.4	361.7	358.9	354.5	349.5	343.6	336.4	329.1	321.3	313.8
40°	347.0	346.1	344.7	340.8	335.8	329.7	321.9	313.0	301.2	289.3	277.0
42.5°	318.5	318.8	317.1	314.1	309.3	303.5	295.4	285.6	273.1	258.9	243.0
45°	285.4	285.4	284.8	282.3	279.0	274.2	268.1	260.0	247.7	233.3	216.3
47.5°	250.8	251.1	250.3	249.7	248.3	245.2	240.8	234.6	226.0	212.1	195.1
50°	215.7	215.7	217.1	216.8	216.8	215.7	213.7	210.1	202.6	191.5	175.6
52.5°	180.6	181.1	182.0	183.1	184.5	186.7	184.5	182.8	178.1	169.4	155.8
55°	144.4	144.9	146.3	148.3	149.9	152.2	152.7	152.7	150.2	144.4	134.0
57.5°	113.4	112.6	113.7	115.4	117.6	119.8	121.5	123.5	123.2	119.3	110.9
60°	85.3	85.6	86.4	88.1	89.7	91.7	93.9	95.6	96.4	94.5	89.2
62.5°	62.1	62.1	63.3	64.9	65.8	68.6	69.9	70.8	71.6	71.3	68.0
65°	43.5	44.0	44.6	45.4	46.3	47.9	48.8	50.4	51.0	51.3	48.8
67.5°	30.7	29.8	30.4	30.9	31.8	32.9	34.6	34.6	35.4	35.4	33.7
70°	19.5	19.5	19.8	20.6	21.2	21.5	22.0	22.6	23.4	23.1	23.1
72.5°	13.1	12.8	13.1	13.4	13.7	14.5	14.5	14.8	15.3	15.6	14.5
75°	6.7	7.0	7.5	7.2	8.1	7.5	7.8	8.6	8.4	7.8	7.8
77.5°	5.6	5.6	5.6	5.3	5.9	5.9	5.6	6.1	5.9	5.9	5.6
80°	3.9	4.2	3.9	3.6	3.9	3.6	3.6	3.6	3.6	3.6	3.3
82.5°	3.1	2.5	2.8	2.5	2.8	2.8	2.5	2.2	2.2	2.5	2.2
85°	2.2	1.7	2.0	2.0	1.7	1.7	1.7	1.7	1.7	1.4	1.4
87.5°	1.4	0.8	0.8	0.8	1.1	1.1	1.1	0.8	1.1	1.1	0.6
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: P246108

CATALOG NUMBER: LD8B10D010 ER8B10830 8LBDW0B

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	519.2	519.2	519.2	519.2	519.2	519.2	519.2	519.2	519.2	519.2	519.2
2.5°	520.0	519.7	520.3	520.0	520.0	519.7	520.0	519.7	520.3	519.2	519.5
5°	520.0	519.5	519.7	520.0	520.3	519.7	519.7	519.7	520.3	519.7	520.0
7.5°	518.9	518.6	519.5	520.0	519.7	519.5	520.0	519.7	520.3	520.0	520.6
10°	516.7	516.9	517.5	518.3	518.6	518.9	519.5	519.5	520.3	519.2	519.7
12.5°	513.3	514.4	515.8	516.4	517.5	517.5	518.1	518.3	518.9	518.6	519.5
15°	509.1	510.5	512.2	513.6	515.0	515.8	516.7	516.9	517.8	516.9	517.2
17.5°	504.1	505.8	508.3	510.0	512.2	513.0	514.2	514.7	515.6	515.0	515.3
20°	497.2	499.1	501.9	504.4	505.8	507.7	509.1	510.0	510.5	510.0	510.3
22.5°	487.4	490.2	493.8	495.8	498.6	500.2	500.5	502.5	503.8	502.5	503.0
25°	476.0	478.8	481.6	485.7	488.2	490.2	492.1	492.4	493.8	493.5	493.3
27.5°	457.0	460.7	465.4	468.7	472.1	475.1	477.4	477.9	479.3	478.8	479.0
30°	431.1	435.0	439.5	444.8	449.5	452.6	455.4	457.3	458.7	457.9	457.6
32.5°	394.3	398.2	403.0	408.3	413.8	418.3	421.6	424.2	425.8	425.3	423.9
35°	352.3	353.4	356.4	360.6	365.3	370.1	373.2	375.9	377.9	378.4	378.4
37.5°	309.1	305.4	303.2	303.2	306.0	307.9	310.7	312.4	315.5	316.6	317.4
40°	267.2	258.9	251.1	245.2	241.3	241.1	241.1	241.9	244.7	248.3	251.6
42.5°	229.9	216.5	204.6	193.7	185.9	181.4	179.5	179.8	182.0	185.3	190.9
45°	200.1	183.4	168.3	155.2	144.6	137.7	134.3	134.0	135.7	139.6	145.8
47.5°	177.0	159.1	142.1	127.1	115.7	108.1	104.2	103.1	104.2	107.8	115.1
50°	157.7	139.3	121.8	106.2	93.9	86.1	82.5	81.1	82.5	85.6	92.8
52.5°	139.9	120.9	104.5	89.5	76.4	69.7	65.8	64.9	65.8	69.4	75.2
55°	119.3	103.1	86.9	71.9	60.5	53.8	50.7	49.9	50.7	54.1	60.2
57.5°	98.9	85.0	70.8	57.1	47.4	41.5	38.7	37.6	39.6	41.8	49.0
60°	80.0	68.8	56.8	44.9	36.8	31.5	29.3	29.0	29.5	32.3	37.3
62.5°	62.7	53.5	44.0	34.3	27.6	25.4	22.6	22.3	22.8	24.5	28.4
65°	45.1	39.3	32.0	25.1	19.8	16.7	15.6	15.9	16.4	17.6	21.2
67.5°	31.5	27.3	22.3	17.6	13.7	12.3	11.1	10.9	11.1	13.1	15.0
70°	21.2	18.7	15.0	13.4	9.5	7.5	7.8	7.0	8.1	8.1	9.8
72.5°	13.9	12.3	10.0	7.8	6.7	5.3	5.3	5.0	5.6	5.9	7.2
75°	7.2	5.6	5.6	3.9	2.8	1.4	2.5	2.2	2.0	2.2	2.8
77.5°	5.0	4.2	3.9	3.1	2.8	2.2	2.2	2.2	2.2	2.5	2.8
80°	3.1	3.1	2.2	2.0	1.7	1.4	1.7	1.7	1.7	1.7	2.0
82.5°	2.0	1.7	1.7	1.4	1.4	1.1	1.1	1.1	1.1	1.1	1.7
85°	1.7	1.1	1.1	0.8	1.1	2.0	0.8	1.1	1.1	1.1	0.8
87.5°	0.6	0.8	0.8	0.8	0.6	0.3	0.6	0.8	0.8	1.4	1.1
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: P246108

CATALOG NUMBER: LD8B10D010 ER8B10830 8LBDW0B

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	519.2	519.2	519.2	519.2	519.2	519.2	519.2	519.2	519.2	519.2	519.2
2.5°	520.0	520.3	520.3	520.0	520.0	519.5	520.6	519.7	520.0	521.1	520.3
5°	520.6	520.8	520.8	520.6	520.6	520.6	520.8	520.8	520.6	520.3	520.8
7.5°	521.7	521.4	521.4	520.8	520.8	520.3	520.8	520.0	520.6	520.0	520.8
10°	520.3	520.6	520.3	520.0	520.0	519.7	519.7	518.9	519.2	518.3	518.9
12.5°	519.5	519.2	519.2	518.6	518.1	517.5	517.2	516.4	516.4	514.4	515.3
15°	517.2	517.5	516.7	515.6	515.0	513.6	513.0	511.9	510.8	509.4	509.7
17.5°	515.3	514.4	513.3	512.2	510.0	508.9	507.7	506.1	505.5	503.8	503.3
20°	509.4	508.9	507.5	505.5	504.1	501.6	500.5	498.8	497.4	495.8	494.9
22.5°	501.9	501.3	499.7	497.7	495.5	494.4	493.3	490.2	488.8	487.1	486.8
25°	492.4	491.6	489.9	487.7	486.6	483.5	482.4	480.2	479.6	477.9	477.7
27.5°	477.9	476.8	474.9	472.1	470.1	468.2	467.1	465.4	464.8	463.2	462.9
30°	456.2	454.8	450.9	449.8	446.4	444.5	444.5	442.3	442.5	441.4	441.4
32.5°	421.9	419.7	416.6	414.4	412.2	411.1	411.1	410.2	410.8	410.8	411.3
35°	376.5	373.4	371.8	370.4	370.4	371.5	374.8	375.7	377.3	378.7	379.8
37.5°	318.2	318.0	319.9	321.6	325.8	330.5	336.4	341.4	346.1	349.5	352.8
40°	255.3	262.2	267.8	275.6	282.0	291.2	301.8	310.4	318.5	324.4	330.5
42.5°	199.3	208.2	219.9	231.3	242.7	255.3	269.2	281.2	291.8	299.9	306.3
45°	155.2	167.5	181.7	196.2	211.0	226.6	241.1	253.3	264.5	272.8	279.2
47.5°	125.1	138.5	154.7	170.6	187.3	203.7	219.9	230.5	239.7	246.4	252.2
50°	103.4	117.6	134.6	152.7	169.4	185.9	199.8	210.1	217.6	223.5	227.1
52.5°	86.4	101.4	119.6	137.7	154.4	169.4	182.0	189.8	195.9	200.1	203.4
55°	71.3	85.8	102.8	119.8	136.3	150.5	160.8	166.7	171.4	173.9	175.8
57.5°	58.2	71.6	87.2	102.8	117.0	128.8	136.8	142.7	144.9	146.9	146.6
60°	45.7	58.2	72.5	85.8	98.1	107.6	113.4	116.8	118.4	119.3	118.7
62.5°	35.9	47.4	58.2	69.9	78.9	86.9	92.5	92.5	93.4	93.6	94.5
65°	26.8	35.4	44.9	53.5	60.7	66.0	69.1	69.9	71.1	70.8	70.2
67.5°	19.8	26.2	33.2	39.6	44.6	47.9	50.2	52.1	51.8	51.3	51.0
70°	13.7	17.8	24.0	27.9	31.5	34.8	35.4	35.7	35.9	36.2	35.7
72.5°	9.5	12.5	15.9	19.2	21.5	22.8	24.2	24.5	24.5	24.5	24.2
75°	4.7	6.4	9.5	10.9	12.8	13.4	14.5	14.5	15.3	14.2	13.9
77.5°	4.2	5.0	6.7	7.8	8.6	9.5	9.8	10.6	10.3	9.8	10.0
80°	2.5	3.1	4.2	4.7	5.9	6.1	6.4	6.7	6.4	6.7	6.7
82.5°	2.0	2.2	2.8	2.8	3.6	3.6	3.9	3.9	4.2	4.2	4.2
85°	1.1	2.0	1.7	3.3	2.2	2.2	2.8	3.3	2.8	2.8	3.3
87.5°	1.1	1.1	0.8	1.1	1.1	1.1	1.4	1.7	1.7	2.0	1.7
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: P246108

CATALOG NUMBER: LD8B10D010 ER8B10830 8LBDW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	519.2	519.2	519.2	519.2
2.5°	520.0	520.6	519.7	519.5
5°	520.8	520.8	520.3	520.3
7.5°	520.8	520.8	520.0	519.5
10°	518.6	518.6	517.8	517.2
12.5°	514.4	514.4	514.2	513.3
15°	509.1	509.1	508.0	507.2
17.5°	501.9	502.5	501.1	501.1
20°	494.1	493.8	492.7	492.1
22.5°	486.0	485.5	485.2	483.5
25°	477.4	476.8	476.0	475.1
27.5°	462.6	462.3	461.5	460.4
30°	440.0	439.8	438.6	438.6
32.5°	410.8	410.5	409.4	409.7
35°	380.4	381.5	381.0	379.8
37.5°	355.0	355.9	356.4	355.9
40°	333.9	336.4	336.6	337.2
42.5°	311.3	314.6	315.7	316.3
45°	284.2	287.3	289.8	289.3
47.5°	256.7	258.9	261.1	259.4
50°	230.2	231.6	232.4	232.4
52.5°	205.1	205.1	204.8	205.1
55°	176.4	176.4	175.3	175.8
57.5°	146.3	146.9	146.0	144.6
60°	118.4	117.0	116.5	115.7
62.5°	92.2	92.2	90.3	92.8
65°	69.1	68.3	67.4	67.2
67.5°	50.2	49.9	49.0	48.8
70°	35.4	34.3	34.0	33.4
72.5°	23.7	23.7	23.1	23.1
75°	14.5	13.1	12.8	13.1
77.5°	10.0	9.8	9.8	9.5
80°	6.7	6.4	7.0	6.1
82.5°	4.2	4.5	4.2	4.5
85°	2.8	3.3	3.1	3.1
87.5°	1.7	1.7	1.7	1.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)