

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: P245478

Luminaire Tested: **LD8B10D010 ER8B10850 8LBDW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245478  
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: LD8B10D010 ER8B10850 8LBDW0WH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 5000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1180.0 lumens  
Efficiency: N/A  
Efficacy: 115.7 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

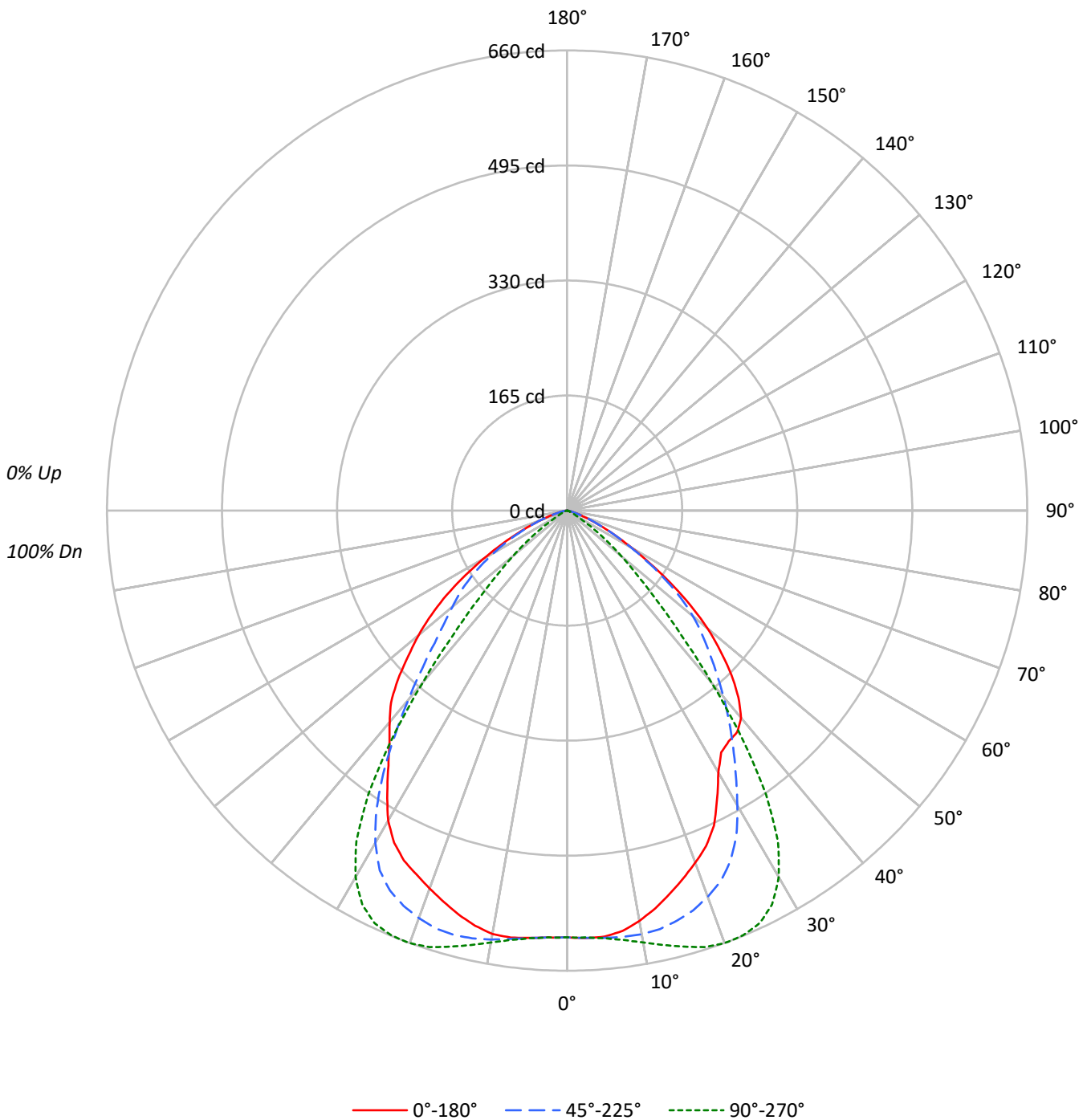
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P245478

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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	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	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90					90			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62					62			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56					56			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45					45			
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41					41			
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38					38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	18875	18875	18875
5°	18987	19058	19040
10°	18709	19695	19310
15°	18162	20674	19158
20°	17635	21665	18925
25°	16958	22221	18839
30°	15432	21613	18280
35°	15204	18728	16819
40°	15619	12986	15945
45°	14539	7850	14993
50°	12612	4845	13360
55°	9677	2532	11338
60°	6593	1024	8554
65°	4101	518	5903
70°	2227	325	3606
75°	1156	155	2133
80°	515	178	1154
85°	354	106	1026



TEST NUMBER: P245478

CATALOG NUMBER: LD8B10D010 ER8B10850 8LBDW0WH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.9	5.0
10°-20°	174.4	14.8
20°-30°	266.1	22.5
30°-40°	277.6	23.5
40°-50°	208.5	17.7
50°-60°	128.3	10.9
60°-70°	52.2	4.4
70°-80°	12.3	1.0
80°-90°	1.7	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°	499.3	42.3
0°-40°	776.9	65.8
0°-60°	1113.8	94.4
0°-90°	1180.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1180.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	612	612	612	612	612	
5°	613	615	616	615	615	58
15°	569	609	648	630	600	160
25°	498	554	653	601	554	227
35°	404	415	498	460	447	255
45°	333	288	180	269	344	254
55°	180	171	47	171	211	162
65°	56	57	7	76	81	59
75°	10	10	1	17	18	12
85°	1	1	0	2	3	1
90°	0	0	0	0	0	



TEST NUMBER: P245478

CATALOG NUMBER: LD8B10D010 ER8B10850 8LBDW0WH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1
2.5°	613.8	612.8	613.8	613.8	614.1	613.4	613.8	614.1	613.4	613.4	613.4
5°	613.4	612.8	613.4	613.1	613.8	613.8	614.4	614.4	615.1	615.1	616.0
7.5°	608.2	607.0	608.2	609.2	609.9	611.2	612.8	614.1	615.4	616.7	618.3
10°	597.5	597.5	598.5	600.4	602.4	604.7	607.6	610.8	614.1	617.0	619.9
12.5°	584.2	583.2	585.2	587.8	590.7	594.3	598.8	603.7	608.9	614.7	619.3
15°	568.9	568.0	570.2	572.8	576.4	581.6	587.1	593.6	601.1	608.9	616.4
17.5°	553.3	553.0	555.3	558.9	561.8	567.3	574.5	582.2	590.7	601.1	610.8
20°	537.4	537.1	539.4	542.3	546.2	551.4	558.5	567.6	577.7	589.4	600.8
22.5°	520.8	521.2	523.1	526.4	529.6	535.1	542.6	551.7	562.8	575.4	588.1
25°	498.4	496.8	499.4	502.7	508.2	512.7	519.9	529.6	541.0	554.3	569.3
27.5°	465.9	465.6	467.9	470.8	475.7	481.2	489.0	499.1	511.1	525.7	540.3
30°	433.4	434.1	435.1	438.0	441.2	446.8	454.6	463.0	474.4	488.3	503.9
32.5°	411.3	411.3	412.6	414.6	416.9	419.8	425.3	431.5	440.3	450.0	461.4
35°	403.9	402.6	403.9	404.2	404.5	405.2	406.1	408.1	411.0	415.2	419.5
37.5°	400.6	399.6	399.6	398.4	396.7	394.8	392.2	389.3	386.0	381.8	378.5
40°	388.0	387.3	386.7	385.4	381.8	377.9	373.7	366.8	359.4	349.0	338.6
42.5°	363.6	362.9	362.6	360.0	356.8	352.2	347.3	340.2	330.8	317.4	302.5
45°	333.4	332.1	331.1	328.8	326.5	322.6	318.1	311.6	302.2	288.5	270.7
47.5°	298.3	297.6	297.3	296.3	294.1	291.8	288.9	283.7	275.2	262.2	243.7
50°	262.9	261.6	262.2	261.9	260.9	259.3	257.3	253.8	247.3	235.6	218.7
52.5°	222.2	222.2	221.9	222.9	223.2	222.9	223.2	219.3	213.8	205.0	190.7
55°	180.0	180.0	181.0	182.3	183.6	183.9	183.6	182.0	178.1	170.9	158.2
57.5°	140.4	139.7	141.7	143.6	144.9	146.2	145.2	143.9	141.7	135.8	126.1
60°	106.9	106.9	108.2	109.5	110.8	112.1	111.8	111.4	109.5	105.6	97.8
62.5°	78.6	79.0	79.0	79.9	81.2	82.5	83.5	82.5	81.6	79.0	73.8
65°	56.2	55.9	56.2	57.2	58.2	59.5	60.1	59.8	58.8	56.9	53.0
67.5°	37.7	37.4	38.7	39.0	39.6	40.9	40.6	40.9	40.6	39.0	35.7
70°	24.7	24.0	24.7	24.4	25.3	25.7	26.3	26.6	26.3	25.3	24.4
72.5°	15.3	14.9	15.3	15.6	15.9	16.2	16.9	16.9	16.6	15.9	14.6
75°	9.7	8.8	9.1	8.5	9.1	9.1	9.7	10.1	9.7	9.7	9.1
77.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	6.2	6.5	5.9	5.5
80°	2.9	2.9	3.3	3.3	3.3	3.6	3.3	3.3	3.3	3.6	2.6
82.5°	2.3	1.9	1.9	1.9	2.3	1.9	1.9	1.9	1.9	1.9	1.9
85°	1.0	1.3	1.0	0.7	1.0	1.0	1.3	1.0	1.0	1.0	1.3
87.5°	0.3	0.3	0.0	0.0	0.0	0.3	0.0	0.3	0.3	0.7	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: P245478

CATALOG NUMBER: LD8B10D010 ER8B10850 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1
2.5°	613.8	613.1	613.1	612.8	613.4	612.8	613.1	612.8	612.8	613.4	612.8
5°	616.0	616.4	615.7	615.4	616.4	616.4	616.4	615.7	615.7	616.0	615.7
7.5°	619.3	619.9	620.3	620.6	621.2	621.6	621.6	621.2	620.9	621.9	620.6
10°	622.9	623.8	625.8	626.8	628.4	628.4	629.0	629.0	628.4	629.0	628.7
12.5°	621.6	627.4	630.7	632.9	635.2	637.2	637.8	638.1	637.8	639.1	637.8
15°	623.8	628.7	633.9	637.8	642.0	644.3	645.0	647.6	648.2	648.5	646.6
17.5°	620.3	629.0	634.6	640.4	646.6	650.8	654.7	656.3	656.7	657.3	654.7
20°	612.1	621.9	630.3	638.8	645.9	652.4	655.7	660.2	658.9	661.5	658.0
22.5°	601.1	612.1	622.9	633.9	641.4	649.2	656.0	659.3	660.9	660.9	657.0
25°	583.6	596.6	608.2	619.6	631.0	640.4	648.2	653.1	654.1	653.7	649.2
27.5°	556.3	570.2	583.9	596.9	610.8	621.9	631.0	636.8	638.5	638.5	633.6
30°	518.6	533.5	546.8	562.4	576.7	589.1	601.8	607.0	609.9	609.9	604.4
32.5°	473.7	486.4	498.7	514.0	529.6	543.6	555.6	562.8	566.3	566.0	561.1
35°	425.0	431.2	440.6	452.0	465.9	478.9	490.6	497.5	503.6	503.3	498.7
37.5°	376.3	374.6	375.6	379.8	388.6	397.7	406.8	413.3	418.5	420.8	419.8
40°	328.5	320.0	311.9	309.0	309.6	312.9	317.8	322.6	328.5	331.4	332.7
42.5°	285.6	271.3	257.0	246.3	240.1	238.2	240.4	242.1	245.6	249.9	254.1
45°	251.2	232.0	213.1	196.6	186.2	180.0	178.7	180.0	182.0	186.2	191.7
47.5°	222.9	200.5	179.4	160.8	145.6	137.4	135.2	134.5	136.5	140.4	147.8
50°	197.9	175.5	152.1	130.6	114.7	105.6	102.4	101.0	103.3	106.2	113.1
52.5°	170.6	148.5	124.4	103.6	87.1	77.7	74.1	72.1	73.4	77.3	84.2
55°	141.0	120.5	98.8	77.3	61.4	52.6	48.4	47.1	48.4	52.6	59.5
57.5°	111.4	94.2	76.0	55.9	41.6	32.8	28.6	27.3	30.9	32.5	39.6
60°	87.1	73.1	57.5	40.9	28.6	21.8	17.5	16.6	18.2	21.1	27.0
62.5°	65.3	56.5	44.2	29.2	21.1	14.0	11.7	10.7	11.7	14.0	18.5
65°	47.4	40.6	30.9	21.4	14.3	10.4	7.8	7.1	8.1	9.7	13.7
67.5°	32.5	27.3	21.4	14.9	9.7	6.5	5.5	5.5	5.9	7.1	10.1
70°	21.1	17.9	13.7	9.7	6.5	4.9	4.2	3.6	4.2	5.2	6.8
72.5°	13.3	11.4	8.8	6.8	4.9	3.6	2.9	2.6	3.3	3.9	5.2
75°	8.1	6.2	4.5	3.6	2.6	2.6	2.6	1.3	1.6	2.6	3.3
77.5°	4.9	4.2	3.6	2.9	2.3	1.3	1.3	1.3	1.6	1.9	2.9
80°	2.6	2.3	1.6	1.6	1.3	1.0	1.3	1.0	0.7	1.6	1.9
82.5°	1.6	1.3	1.3	1.3	1.6	0.7	1.0	0.7	1.0	1.3	1.0
85°	1.0	1.0	1.0	0.7	1.6	0.7	0.7	0.3	0.3	0.7	0.7
87.5°	0.0	0.3	0.3	0.0	0.3	0.0	0.3	0.3	0.3	0.3	0.3
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: P245478

CATALOG NUMBER: LD8B10D010 ER8B10850 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1
2.5°	613.1	612.8	613.1	612.8	612.8	612.8	613.1	613.1	612.8	612.8	613.4
5°	615.7	615.7	615.7	615.4	615.1	615.1	615.7	615.7	614.7	615.7	615.7
7.5°	621.2	620.3	621.2	619.9	619.3	619.6	619.9	619.3	618.6	619.0	619.0
10°	628.4	627.4	627.4	626.4	625.5	624.8	624.2	622.5	620.9	620.6	619.3
12.5°	636.8	635.2	634.2	632.3	630.7	628.4	626.4	623.8	620.6	618.3	616.0
15°	645.3	642.7	640.4	637.2	633.6	629.7	625.5	621.2	616.0	611.5	607.6
17.5°	652.1	648.5	644.3	639.1	633.9	628.1	621.9	615.7	608.2	602.4	597.8
20°	654.4	649.2	643.7	636.8	630.0	621.9	614.1	606.0	597.5	591.4	586.2
22.5°	651.5	645.3	638.5	631.3	622.2	613.4	604.4	594.9	587.4	579.0	574.1
25°	643.3	635.9	628.4	619.9	611.2	601.4	591.7	581.9	572.8	568.3	562.1
27.5°	626.8	618.6	610.5	601.8	591.7	581.9	571.9	562.4	554.6	548.5	544.9
30°	597.5	588.1	578.7	569.3	560.5	550.4	541.0	533.2	525.4	520.5	516.9
32.5°	552.7	544.2	534.8	525.7	517.6	509.1	501.3	494.5	489.0	485.7	483.2
35°	492.3	483.8	476.7	470.2	463.3	459.8	454.9	451.0	448.7	447.4	447.1
37.5°	416.2	411.3	409.1	407.8	406.5	405.5	406.1	407.8	409.1	411.3	413.9
40°	335.0	339.2	340.5	345.1	349.3	354.8	361.0	368.1	374.0	381.5	386.7
42.5°	260.9	268.7	277.8	287.6	297.9	308.0	320.4	331.7	342.1	351.6	359.7
45°	200.5	212.5	226.1	240.1	254.1	268.7	283.7	297.6	310.0	320.0	328.5
47.5°	156.3	169.6	187.2	204.4	221.3	238.5	255.1	269.7	280.1	289.8	297.3
50°	123.8	139.1	158.2	178.1	196.6	214.8	232.3	246.0	256.4	264.2	269.7
52.5°	95.8	114.0	133.5	154.3	174.2	194.0	210.2	222.9	231.3	238.2	242.4
55°	71.5	89.4	110.2	131.6	151.7	170.9	186.2	197.2	204.7	208.6	210.9
57.5°	51.7	67.9	88.7	110.2	128.3	146.5	158.9	169.0	173.2	175.5	176.4
60°	37.7	52.6	71.2	89.7	106.9	121.5	132.2	139.1	142.3	143.6	143.3
62.5°	27.6	40.6	56.5	72.1	86.1	98.1	106.6	111.1	112.7	113.4	112.4
65°	21.1	31.2	44.8	56.9	67.6	76.4	82.5	85.5	86.4	86.1	85.5
67.5°	15.6	23.4	33.5	42.6	50.4	57.2	60.4	63.0	63.7	62.7	61.7
70°	11.1	17.2	24.4	30.5	36.4	40.3	43.9	44.2	44.2	43.9	43.2
72.5°	7.8	12.0	16.6	20.8	24.4	27.3	28.6	29.6	29.2	28.9	28.3
75°	5.2	7.5	12.0	13.0	16.2	17.2	18.5	18.5	18.8	17.9	17.9
77.5°	3.3	5.2	7.1	8.5	9.7	11.1	11.7	11.7	12.0	11.7	11.7
80°	1.9	3.3	3.9	5.9	5.9	6.8	7.1	7.5	6.8	7.8	6.8
82.5°	1.3	1.9	2.9	2.9	3.6	4.2	4.2	4.5	4.5	4.2	4.2
85°	1.0	1.3	1.6	1.9	1.9	2.3	1.9	1.9	2.3	2.6	2.3
87.5°	0.3	0.7	0.3	0.7	0.7	1.3	1.0	1.0	1.0	1.3	1.3
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: P245478

CATALOG NUMBER: LD8B10D010 ER8B10850 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	612.1	612.1	612.1	612.1
2.5°	612.8	613.1	612.8	612.8
5°	615.7	615.4	615.7	615.1
7.5°	618.0	618.0	617.7	617.7
10°	618.0	616.7	616.7	616.7
12.5°	613.1	611.5	610.5	609.9
15°	604.7	601.8	600.4	600.1
17.5°	593.6	591.0	589.4	588.4
20°	581.0	578.4	576.4	576.7
22.5°	569.9	567.0	565.7	565.0
25°	558.9	555.3	554.3	553.7
27.5°	541.0	539.0	538.1	537.1
30°	513.7	512.7	511.1	513.4
32.5°	482.2	480.6	479.3	480.2
35°	447.4	446.4	447.4	446.8
37.5°	415.6	416.5	417.8	418.5
40°	390.6	394.1	395.4	396.1
42.5°	365.5	369.8	372.4	374.0
45°	334.7	338.9	341.8	343.8
47.5°	302.8	306.4	309.3	309.0
50°	273.9	275.9	277.2	278.5
52.5°	244.7	244.7	245.0	245.0
55°	211.5	210.9	210.5	210.9
57.5°	175.1	174.5	174.2	173.2
60°	142.0	140.0	138.7	138.7
62.5°	111.1	108.8	107.9	107.6
65°	83.5	83.2	81.2	80.9
67.5°	60.4	59.1	57.8	58.2
70°	42.6	40.6	40.6	40.0
72.5°	27.6	26.6	26.3	26.3
75°	17.2	17.2	16.6	17.9
77.5°	11.4	11.4	11.1	11.4
80°	6.8	6.8	6.8	6.5
82.5°	4.2	4.5	4.2	4.2
85°	2.3	2.6	1.9	2.9
87.5°	1.3	1.6	1.3	1.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)