

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: P244110

Luminaire Tested: **LD8B10D010 ER8B10850 8LBSW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244110  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-53)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B10D010 ER8B10850 8LBSW0LI  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 5000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

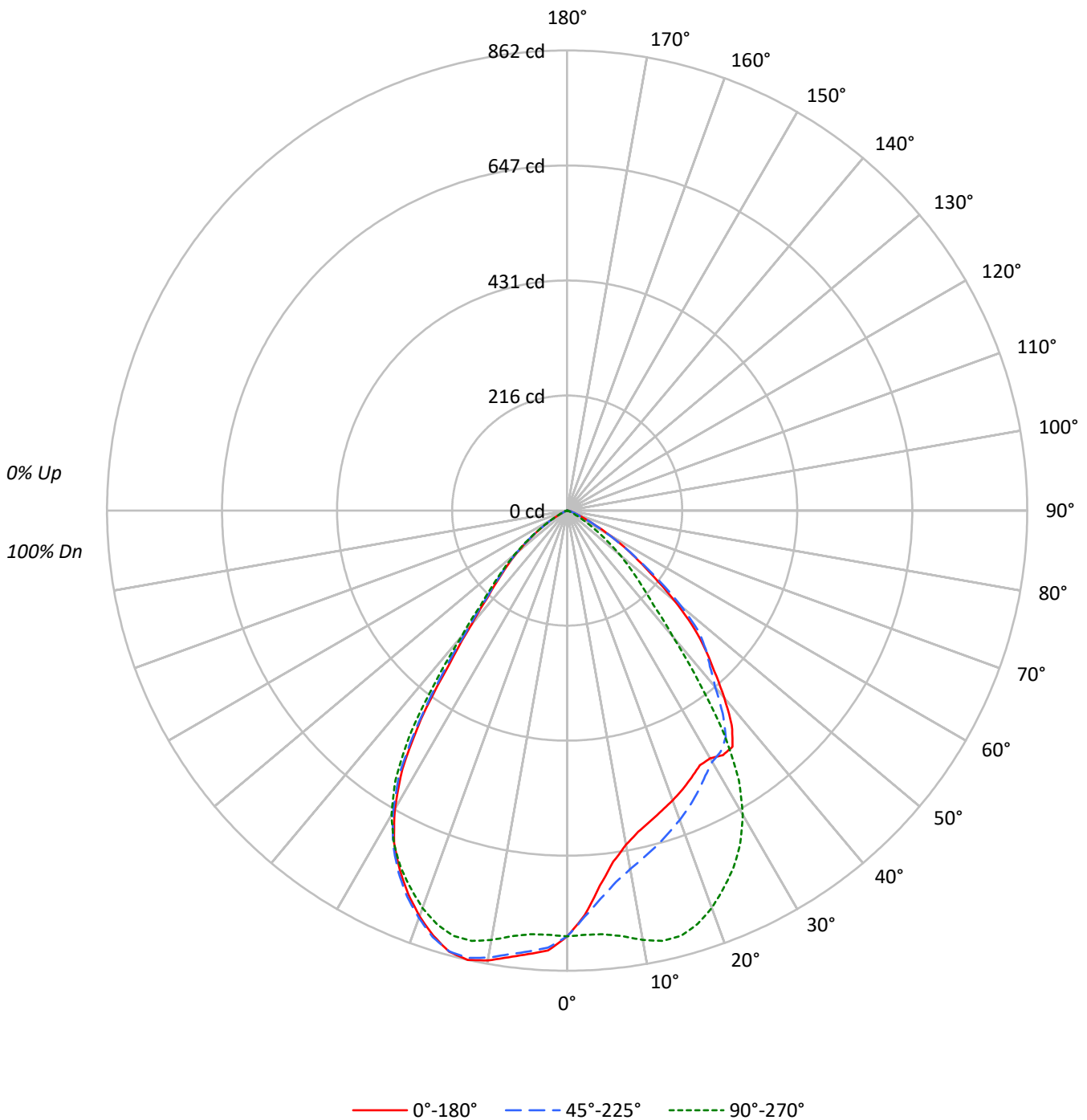
Lumens per Lamp: N/A  
Luminaire Lumens: 1221.0 lumens  
Efficiency: N/A  
Efficacy: 119.7 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 10.2  
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



TEST NUMBER: P244110  
CATALOG NUMBER: LD8B10D010 ER8B10850 8LBSW0LI

### Luminous Intensity Polar Plot





TEST NUMBER: P244110

CATALOG NUMBER: LD8B10D010 ER8B10850 8LBSW0LI

**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	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82					82			
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74					74			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67					67			
5	86	76	69	64	84	75	69	64	73	68	63	72	66	63	70	65	62	60					60			
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50					50			
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46					46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42					42			
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39					39			

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

	0°	90°	180°
0°	24598	24598	24598
5°	21823	24658	25813
10°	19896	25573	26794
15°	19228	26321	27305
20°	18954	25996	26534
25°	18768	25100	25256
30°	19075	23426	22991
35°	20332	19383	17979
40°	18424	12410	11239
45°	15904	8491	7906
50°	12550	6193	5833
55°	8709	3806	3581
60°	5544	1924	1721
65°	2765	766	584
70°	1533	379	207
75°	1096	274	95
80°	888	178	36
85°	955	142	0



TEST NUMBER: P244110

CATALOG NUMBER: LD8B10D010 ER8B10850 8LBSW0LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.3	6.1
10°-20°	214.7	17.6
20°-30°	311.7	25.5
30°-40°	307.0	25.1
40°-50°	192.4	15.8
50°-60°	92.8	7.6
60°-70°	22.5	1.8
70°-80°	4.5	0.4
80°-90°	1.0	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°	600.7	49.2
0°-40°	907.7	74.3
0°-60°	1192.9	97.7
0°-90°	1221.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1221.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	798	798	798	798	798	
5°	705	729	797	829	834	65
15°	602	650	824	855	855	170
25°	552	580	738	748	742	255
35°	540	518	515	486	478	327
45°	365	367	195	186	181	279
55°	162	167	71	70	67	149
65°	38	38	10	9	8	43
75°	9	8	2	1	1	10
85°	3	2	0	0	0	3
90°	0	0	0	0	0	



TEST NUMBER: P244110

CATALOG NUMBER: LD8B10D010 ER8B10850 8LBSW0LI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7
2.5°	758.3	753.4	744.4	755.3	755.3	749.2	761.4	754.1	759.9	769.2	761.0
5°	705.0	701.0	693.5	705.0	706.5	700.8	715.5	710.1	718.6	730.0	728.9
7.5°	662.9	657.9	650.9	662.9	665.2	661.4	675.5	673.0	684.3	698.9	701.5
10°	635.4	630.2	624.1	635.0	636.7	634.2	648.4	647.0	658.1	675.1	681.8
12.5°	616.0	611.5	604.8	616.4	618.3	614.7	628.1	627.5	639.0	656.8	665.2
15°	602.3	597.1	591.0	600.9	603.4	599.4	612.2	610.9	622.7	640.3	649.7
17.5°	589.5	584.7	578.4	587.7	590.2	586.0	598.6	596.5	606.5	623.3	632.9
20°	577.6	572.4	566.7	576.1	577.6	572.8	585.4	582.6	591.6	607.1	616.6
22.5°	565.2	559.8	553.9	563.1	564.6	559.8	571.3	568.2	576.5	590.6	599.2
25°	551.6	546.6	540.7	549.3	550.6	545.3	557.5	553.5	560.8	573.2	580.3
27.5°	538.0	533.2	526.7	535.5	536.1	531.1	542.2	536.7	542.8	554.1	560.2
30°	535.7	530.2	523.5	530.7	530.9	524.4	534.8	528.3	531.7	540.1	543.6
32.5°	543.0	537.6	530.7	536.5	535.9	528.8	538.8	530.9	531.9	536.3	535.5
35°	540.1	533.6	525.4	531.7	531.7	523.1	533.2	523.7	522.7	523.3	518.1
37.5°	506.8	501.7	494.0	500.1	499.4	492.9	500.7	492.9	489.4	487.9	478.5
40°	457.7	451.6	445.8	452.3	452.9	446.0	456.0	447.2	446.2	442.0	430.9
42.5°	408.0	406.0	400.3	405.7	408.7	402.8	411.2	407.0	407.6	406.6	396.1
45°	364.7	361.1	356.9	363.2	365.1	362.2	370.5	368.0	370.5	375.8	367.2
47.5°	317.9	314.4	309.8	316.5	319.8	314.4	321.5	320.7	324.4	333.4	332.6
50°	261.6	259.0	258.2	259.0	261.1	258.6	263.6	263.9	266.4	278.7	279.6
52.5°	207.1	206.4	203.5	206.2	206.2	202.2	207.3	205.0	207.5	215.9	221.3
55°	162.0	161.4	159.5	162.0	159.3	157.8	159.3	157.0	155.1	161.6	167.2
57.5°	126.2	124.1	121.8	122.8	122.6	119.5	121.1	118.4	116.9	119.2	124.3
60°	89.9	89.3	87.2	88.2	89.1	86.8	88.4	87.2	84.7	86.6	86.8
62.5°	59.7	60.1	58.9	59.1	58.5	58.1	59.1	59.7	59.1	58.3	58.5
65°	37.9	37.7	37.5	37.7	38.1	37.3	37.9	38.4	37.7	37.7	37.5
67.5°	25.1	24.5	23.9	24.3	24.7	24.1	24.7	24.5	24.7	24.5	23.9
70°	17.0	16.8	16.6	16.8	16.8	16.3	16.8	16.6	16.8	16.6	15.9
72.5°	12.4	12.4	12.2	12.4	12.4	11.9	12.2	11.7	11.9	11.7	11.3
75°	9.2	9.2	9.0	9.2	9.0	8.8	9.0	8.8	8.4	8.4	8.0
77.5°	6.7	6.7	6.7	6.7	6.7	6.5	6.5	6.3	6.1	5.9	5.9
80°	5.0	4.8	4.8	4.8	4.8	4.6	4.8	4.6	4.4	4.2	4.0
82.5°	3.6	3.8	3.6	3.6	3.6	3.4	3.6	3.4	3.4	3.1	2.7
85°	2.7	2.7	2.7	2.7	2.7	2.5	2.5	2.5	2.3	2.3	2.1
87.5°	1.5	1.5	1.5	1.7	1.5	1.5	1.5	1.3	1.3	1.0	1.0
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: P244110

CATALOG NUMBER: LD8B10D010 ER8B10850 8LBSW0LI

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7
2.5°	771.9	772.9	770.6	774.2	788.0	776.9	781.5	783.0	793.5	795.3	794.1
5°	742.5	747.1	750.1	758.0	773.3	765.4	773.6	778.8	792.2	796.6	797.7
7.5°	719.5	729.1	736.2	749.2	767.3	761.2	773.6	782.1	798.5	804.2	806.9
10°	702.3	717.0	729.3	747.1	767.5	763.5	779.6	791.8	810.0	816.7	820.1
12.5°	689.3	707.1	723.7	746.3	768.3	766.4	785.9	799.8	819.0	825.7	829.7
15°	675.1	695.6	714.9	740.2	763.9	763.5	784.5	799.1	818.8	824.5	828.3
17.5°	658.1	680.1	701.2	728.7	752.2	752.6	773.8	788.2	807.5	812.1	814.6
20°	640.9	662.7	683.9	712.1	735.2	735.8	756.6	770.0	788.4	792.2	792.8
22.5°	622.7	643.0	664.2	692.2	714.5	714.9	735.4	748.0	763.7	765.6	767.3
25°	601.9	621.8	641.7	669.6	690.8	692.0	710.7	721.8	736.2	737.7	738.3
27.5°	580.3	596.7	615.7	639.6	661.0	660.2	677.8	690.4	703.3	702.5	702.3
30°	558.5	572.1	583.9	606.9	622.7	623.3	639.8	645.9	659.5	657.9	657.7
32.5°	543.2	546.8	549.9	561.7	576.5	571.3	582.6	590.2	599.6	599.0	599.2
35°	515.1	508.6	499.2	500.9	509.9	501.7	507.8	507.6	517.2	514.9	517.7
37.5°	467.1	448.7	427.7	415.8	417.5	407.2	405.1	410.1	413.5	407.0	409.3
40°	416.0	388.8	356.1	328.8	327.4	314.6	312.3	307.2	313.7	308.3	310.0
42.5°	378.3	342.2	299.3	266.2	259.0	248.4	242.1	241.2	243.1	239.3	238.3
45°	349.4	311.0	261.8	223.8	215.9	204.3	198.1	195.7	196.0	194.7	193.7
47.5°	315.4	276.9	227.0	188.2	179.2	168.3	162.0	160.5	161.4	159.7	158.4
50°	268.5	233.9	188.4	153.0	145.0	137.1	132.0	130.6	130.4	129.1	128.3
52.5°	218.0	189.2	149.8	120.3	113.2	105.4	101.9	100.0	100.2	98.9	97.7
55°	168.7	150.9	116.1	91.0	84.5	78.4	75.0	72.7	72.1	70.8	70.2
57.5°	125.5	113.6	87.0	65.6	61.8	56.0	52.6	49.9	49.5	48.8	48.6
60°	88.0	79.4	61.2	46.7	42.3	38.8	35.4	32.7	31.4	31.2	30.6
62.5°	57.0	51.8	40.2	31.2	27.9	25.4	22.0	20.1	19.3	18.4	18.7
65°	35.4	31.4	25.1	20.1	18.2	16.3	13.8	12.2	11.3	10.5	10.7
67.5°	22.0	19.7	15.9	13.0	11.7	10.3	8.4	7.1	6.5	5.9	5.4
70°	14.9	12.8	10.9	9.2	8.4	7.3	6.1	5.0	4.6	4.2	3.8
72.5°	10.5	9.4	8.0	6.9	6.3	5.4	4.6	4.0	3.6	3.1	2.7
75°	7.5	6.7	5.9	5.0	4.6	4.2	3.6	3.1	2.7	2.3	1.9
77.5°	5.4	4.8	4.2	3.8	3.6	2.9	2.5	2.3	2.1	1.7	1.3
80°	3.8	3.4	2.7	2.5	2.5	2.1	1.9	1.7	1.5	1.0	0.8
82.5°	2.5	2.3	2.1	1.9	1.7	1.5	1.5	1.0	0.8	0.6	0.4
85°	1.9	1.7	1.5	1.3	1.3	1.0	0.8	0.6	0.6	0.4	0.2
87.5°	1.0	1.0	0.8	0.6	0.6	0.4	0.4	0.2	0.2	0.2	0.2
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: P244110

CATALOG NUMBER: LD8B10D010 ER8B10850 8LBSW0LI

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7
2.5°	804.8	805.4	809.0	806.2	813.2	818.2	815.7	821.3	819.5	819.0	825.5
5°	810.2	811.7	816.5	814.0	821.5	827.0	824.5	830.8	828.9	828.5	835.2
7.5°	820.7	822.2	826.4	824.3	832.2	837.1	833.9	840.8	838.3	838.1	844.6
10°	833.9	836.0	839.6	837.5	844.8	849.0	845.9	852.6	850.3	849.2	856.3
12.5°	843.8	845.2	848.8	847.1	854.2	857.4	854.7	861.2	858.2	857.4	863.7
15°	841.5	842.9	845.9	844.4	851.1	854.0	850.5	857.6	854.7	853.0	858.6
17.5°	826.8	827.6	829.7	828.3	835.4	837.3	833.3	840.4	837.7	834.7	840.2
20°	805.2	804.8	806.0	805.4	811.3	812.3	809.8	815.0	811.9	810.2	813.4
22.5°	778.4	778.0	778.8	777.1	783.0	783.6	779.8	786.1	783.0	779.8	785.1
25°	748.6	746.3	745.9	746.5	750.5	751.1	747.1	751.8	747.8	745.3	750.3
27.5°	711.9	709.0	708.4	709.0	713.0	710.1	706.7	710.1	706.1	703.8	706.9
30°	666.7	662.5	660.6	659.3	663.5	662.5	654.7	658.5	652.2	648.9	651.2
32.5°	605.7	603.4	598.3	595.4	599.4	591.4	586.6	586.6	584.1	578.4	579.7
35°	521.0	517.4	512.8	510.3	511.0	500.3	492.3	494.0	485.6	484.1	484.8
37.5°	413.9	408.0	406.4	401.1	402.4	393.0	382.1	382.3	377.9	373.3	371.8
40°	311.0	310.0	308.3	303.9	305.6	295.3	291.1	291.3	288.4	285.0	286.7
42.5°	240.4	237.0	236.0	234.5	234.9	233.3	227.8	228.4	225.9	225.1	224.2
45°	195.3	191.8	189.2	190.5	190.5	188.6	186.5	187.8	186.5	184.8	185.7
47.5°	161.0	157.6	156.3	156.1	157.6	156.3	154.2	154.7	154.5	153.8	153.4
50°	128.5	127.6	126.6	126.0	126.6	126.2	124.3	125.3	126.0	123.9	124.5
52.5°	97.9	97.9	97.7	96.2	97.5	96.2	96.0	96.4	95.8	94.9	94.7
55°	71.7	71.0	70.0	69.8	70.2	69.8	69.4	69.6	70.0	67.9	67.9
57.5°	49.0	48.6	48.0	48.0	48.8	47.8	47.2	48.0	47.2	46.3	46.3
60°	31.4	31.2	30.6	30.6	30.6	30.4	29.8	30.0	30.4	29.1	29.3
62.5°	18.9	18.2	18.0	17.8	18.0	17.8	17.8	17.6	17.4	17.4	16.8
65°	10.3	9.9	9.4	9.6	9.6	9.4	9.4	9.4	9.0	8.8	8.6
67.5°	5.2	4.8	4.8	4.6	4.6	4.6	4.6	4.4	4.4	4.4	4.2
70°	3.4	3.1	2.9	2.9	2.9	2.7	2.7	2.7	2.7	2.7	2.5
72.5°	2.3	2.1	1.9	1.9	1.9	1.7	1.7	1.7	1.7	1.5	1.5
75°	1.7	1.5	1.3	1.3	1.3	1.0	1.0	1.0	1.0	1.0	1.0
77.5°	1.0	0.8	0.8	0.8	0.8	0.6	0.6	0.6	0.6	0.6	0.4
80°	0.6	0.6	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2
82.5°	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
87.5°	0.2	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: P244110

CATALOG NUMBER: LD8B10D010 ER8B10850 8LBSW01

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7
2.5°	823.2	821.5	822.6	830.3	827.0	825.9	817.1	824.9
5°	833.1	831.8	831.8	840.6	836.6	835.8	827.2	833.9
7.5°	842.3	841.0	841.2	850.3	847.1	845.9	837.3	844.0
10°	854.2	853.4	853.6	862.2	858.9	857.6	848.8	855.7
12.5°	861.4	860.1	860.1	869.3	865.6	863.7	855.3	862.0
15°	855.9	854.0	854.0	863.3	859.1	856.3	849.0	855.3
17.5°	837.3	835.4	835.4	843.3	840.2	836.2	828.7	834.5
20°	811.3	809.0	808.3	817.6	813.2	809.6	802.9	808.6
22.5°	781.9	780.9	779.0	788.2	784.2	780.5	773.3	777.7
25°	746.7	745.1	743.2	752.2	748.2	744.4	738.8	742.3
27.5°	702.9	703.1	702.1	709.2	705.2	703.1	696.2	702.1
30°	649.9	647.6	646.8	655.1	651.4	648.6	640.1	645.7
32.5°	580.7	577.4	573.0	582.4	575.9	573.6	566.3	574.5
35°	480.1	479.1	475.1	483.1	479.5	475.3	470.7	477.6
37.5°	371.2	372.0	371.6	373.7	371.6	368.9	363.8	361.3
40°	283.3	281.3	279.6	283.3	278.9	278.9	276.0	279.2
42.5°	222.2	221.3	223.4	224.2	221.7	221.3	220.9	220.7
45°	183.4	183.4	183.8	184.6	183.8	183.4	182.1	181.3
47.5°	151.1	151.9	151.1	153.8	152.4	151.9	149.4	150.5
50°	122.4	121.3	122.4	123.2	123.4	122.2	120.9	121.6
52.5°	94.9	93.3	92.8	94.1	93.3	93.3	92.4	92.2
55°	66.9	67.5	66.4	67.5	67.1	66.4	65.8	66.6
57.5°	45.3	45.5	45.1	45.7	44.6	44.8	44.6	44.4
60°	29.3	28.5	28.5	29.1	28.1	28.1	27.9	27.9
62.5°	16.8	16.6	16.6	16.3	16.1	16.1	16.1	15.7
65°	8.6	8.4	8.2	8.2	8.2	8.2	8.0	8.0
67.5°	4.2	4.0	4.0	4.2	4.0	4.0	4.0	4.0
70°	2.5	2.5	2.3	2.5	2.3	2.3	2.3	2.3
72.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
77.5°	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.4
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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

(END OF REPORT)