

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: P246175

Luminaire Tested: **LSR8B15D010 EC8B15827 8LBDW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246175  
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: LSR8B15D010 EC8B15827 8LBDW0MW  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1453.0 lumens  
Efficiency: N/A  
Efficacy: 100.9 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

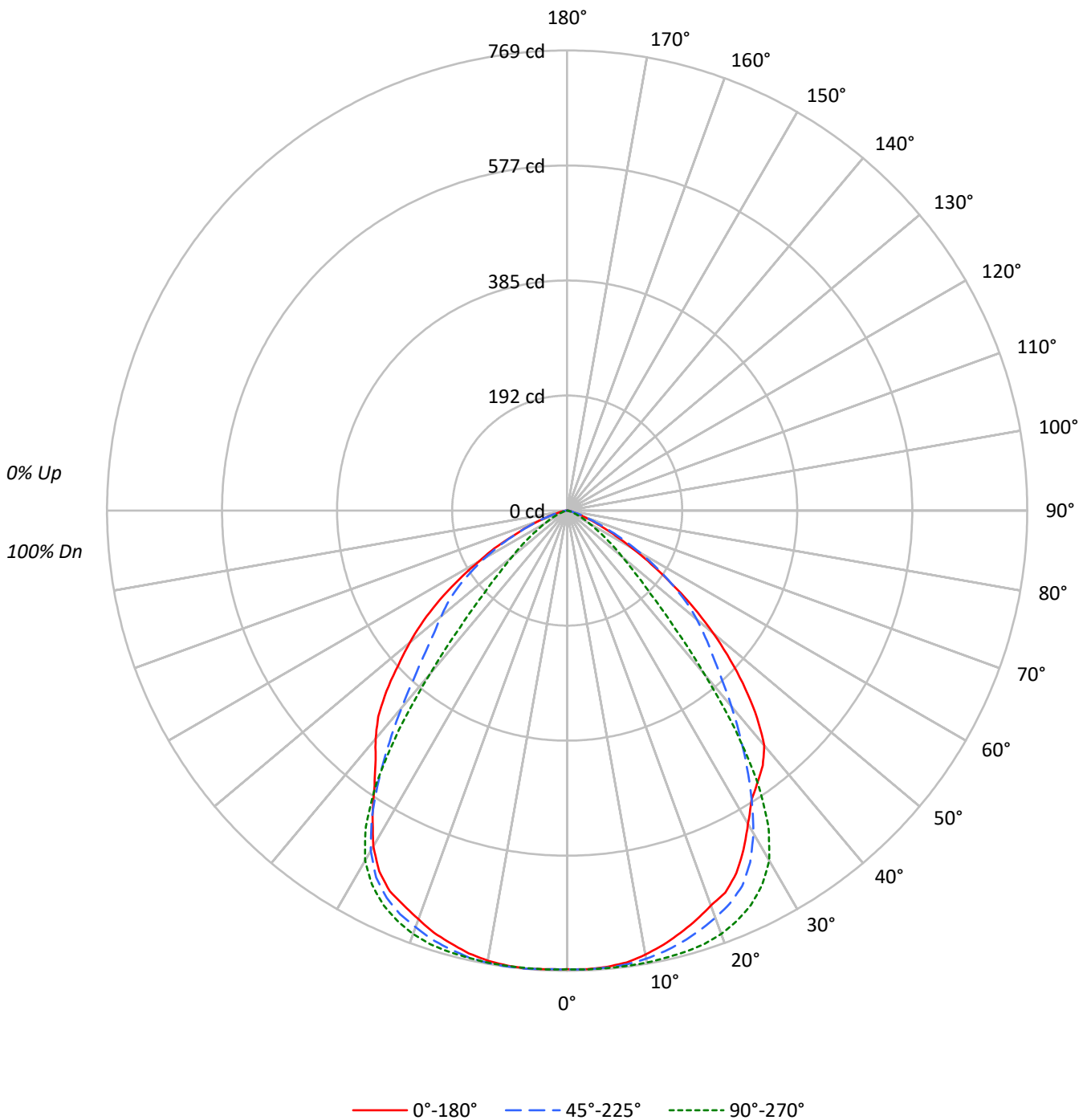
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P246175

CATALOG NUMBER: LSR8B15D010 EC8B15827 8LBDW0MW

### Luminous Intensity Polar Plot





TEST NUMBER: P246175

CATALOG NUMBER: LSR8B15D010 EC8B15827 8LBDW0MW

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

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

	0°	90°	180°
0°	23639	23639	23639
5°	23692	23757	23782
10°	23594	24016	23916
15°	23330	24368	23908
20°	23049	24710	23847
25°	22752	24739	23871
30°	21524	24045	23062
35°	20881	20896	21115
40°	20622	14379	20042
45°	18377	8630	18625
50°	15279	5742	16464
55°	11462	3962	13962
60°	7765	2640	10534
65°	4684	1715	7238
70°	2597	929	4454
75°	1180	393	2299
80°	1030	444	1616
85°	1168	566	1592



TEST NUMBER: P246175

CATALOG NUMBER: LSR8B15D010 EC8B15827 8LBDW0MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.2	5.0
10°-20°	212.5	14.6
20°-30°	322.5	22.2
30°-40°	338.7	23.3
40°-50°	254.0	17.5
50°-60°	162.9	11.2
60°-70°	69.7	4.8
70°-80°	16.5	1.1
80°-90°	3.1	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°	608.1	41.9
0°-40°	946.9	65.2
0°-60°	1363.8	93.9
0°-90°	1453.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1453.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	767	767	767	767	767	
5°	765	767	768	769	768	73
15°	731	746	763	758	749	206
25°	669	692	727	714	702	305
35°	555	524	555	548	561	348
45°	421	344	198	335	427	323
55°	213	213	74	222	260	193
65°	64	76	24	98	99	69
75°	10	12	3	20	19	14
85°	3	2	2	3	4	3
90°	0	0	0	0	0	



TEST NUMBER: P246175

CATALOG NUMBER: LSR8B15D010 EC8B15827 8LBDW0MW

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	766.6	766.6	766.6	766.6	766.6	766.6	766.6	766.6	766.6	766.6	766.6
2.5°	767.0	767.9	767.5	767.5	767.0	767.5	767.5	768.3	768.3	767.5	767.0
5°	765.4	766.2	766.2	765.4	765.4	767.5	766.2	767.0	767.0	766.6	766.6
7.5°	761.7	761.7	763.3	762.1	762.1	763.3	762.9	763.8	764.6	765.0	765.0
10°	753.5	754.3	754.7	754.7	755.1	756.3	757.2	758.8	759.6	760.5	760.9
12.5°	743.2	744.4	744.8	744.4	745.6	747.3	749.4	751.4	752.6	754.3	755.5
15°	730.8	730.8	731.7	732.9	733.7	736.2	738.2	740.7	744.0	746.1	748.1
17.5°	717.3	718.1	719.3	719.3	721.0	725.1	726.3	730.0	733.7	735.8	739.9
20°	702.4	703.3	704.5	705.3	707.4	710.7	713.1	716.4	720.5	724.3	728.4
22.5°	690.9	689.3	690.1	690.9	693.0	695.9	698.7	702.8	707.0	710.7	714.8
25°	668.7	669.1	670.3	671.2	673.6	676.1	679.4	684.3	688.0	692.2	696.7
27.5°	638.7	639.1	641.1	641.1	643.2	647.3	649.3	653.5	658.4	662.5	667.9
30°	604.5	605.3	605.3	607.0	608.2	610.3	612.3	616.4	618.9	622.6	630.0
32.5°	573.2	574.0	573.6	573.2	572.0	571.6	571.2	572.0	572.8	574.0	576.9
35°	554.7	552.6	551.0	548.1	544.8	540.7	537.0	532.1	527.5	523.8	519.7
37.5°	537.0	536.6	534.1	530.0	523.4	516.0	507.4	496.7	486.0	474.5	463.4
40°	512.3	511.1	509.0	503.3	495.9	486.8	475.3	462.1	444.8	427.1	409.0
42.5°	470.3	470.8	468.3	463.8	456.8	448.1	436.2	421.8	403.3	382.3	358.8
45°	421.4	421.4	420.6	416.9	411.9	404.9	395.9	383.9	365.8	344.4	319.3
47.5°	370.4	370.8	369.5	368.7	366.6	362.1	355.5	346.5	333.7	313.2	288.0
50°	318.5	318.5	320.6	320.1	320.1	318.5	315.6	310.3	299.2	282.7	259.3
52.5°	266.7	267.5	268.7	270.4	272.4	275.7	272.4	269.9	262.9	250.2	230.0
55°	213.2	214.0	216.0	218.9	221.4	224.7	225.5	225.5	221.8	213.2	197.9
57.5°	167.5	166.2	167.9	170.4	173.7	176.9	179.4	182.3	181.9	176.1	163.8
60°	125.9	126.3	127.6	130.0	132.5	135.4	138.7	141.1	142.4	139.5	131.7
62.5°	91.8	91.8	93.4	95.9	97.1	101.2	103.3	104.5	105.8	105.3	100.4
65°	64.2	65.0	65.8	67.1	68.3	70.8	72.0	74.5	75.3	75.7	72.0
67.5°	45.3	44.0	44.9	45.7	46.9	48.6	51.0	51.0	52.3	52.3	49.8
70°	28.8	28.8	29.2	30.4	31.3	31.7	32.5	33.3	34.6	34.2	34.2
72.5°	19.3	18.9	19.3	19.8	20.2	21.4	21.4	21.8	22.6	23.0	21.4
75°	9.9	10.3	11.1	10.7	11.9	11.1	11.5	12.8	12.3	11.5	11.5
77.5°	8.2	8.2	8.2	7.8	8.6	8.6	8.2	9.1	8.6	8.6	8.2
80°	5.8	6.2	5.8	5.3	5.8	5.3	5.3	5.3	5.3	5.3	4.9
82.5°	4.5	3.7	4.1	3.7	4.1	4.1	3.7	3.3	3.3	3.7	3.3
85°	3.3	2.5	2.9	2.9	2.5	2.5	2.5	2.5	2.5	2.1	2.1
87.5°	2.1	1.2	1.2	1.2	1.6	1.6	1.6	1.2	1.6	1.6	0.8
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: P246175

CATALOG NUMBER: LSR8B15D010 EC8B15827 8LBDW0MW

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	766.6	766.6	766.6	766.6	766.6	766.6	766.6	766.6	766.6	766.6	766.6
2.5°	767.9	767.5	768.3	767.9	767.9	767.5	767.9	767.5	768.3	766.6	767.0
5°	767.9	767.0	767.5	767.9	768.3	767.5	767.5	767.5	768.3	767.5	767.9
7.5°	766.2	765.8	767.0	767.9	767.5	767.0	767.9	767.5	768.3	767.9	768.7
10°	762.9	763.3	764.2	765.4	765.8	766.2	767.0	767.0	768.3	766.6	767.5
12.5°	758.0	759.6	761.7	762.5	764.2	764.2	765.0	765.4	766.2	765.8	767.0
15°	751.8	753.9	756.3	758.4	760.5	761.7	762.9	763.3	764.6	763.3	763.8
17.5°	744.4	746.9	750.6	753.0	756.3	757.6	759.2	760.0	761.3	760.5	760.9
20°	734.1	737.0	741.1	744.8	746.9	749.8	751.8	753.0	753.9	753.0	753.5
22.5°	719.7	723.8	729.2	732.1	736.2	738.7	739.1	741.9	744.0	741.9	742.8
25°	702.8	707.0	711.1	717.3	721.0	723.8	726.7	727.1	729.2	728.8	728.4
27.5°	674.9	680.2	687.2	692.2	697.1	701.6	704.9	705.7	707.8	707.0	707.4
30°	636.6	642.4	648.9	656.8	663.8	668.3	672.4	675.3	677.3	676.1	675.7
32.5°	582.3	588.0	595.0	602.9	611.1	617.7	622.6	626.3	628.8	628.0	625.9
35°	520.1	521.8	526.3	532.5	539.5	546.5	551.0	555.1	558.0	558.8	558.8
37.5°	456.4	451.0	447.7	447.7	451.8	454.7	458.8	461.3	465.8	467.5	468.7
40°	394.6	382.3	370.8	362.1	356.4	356.0	356.0	357.2	361.3	366.6	371.6
42.5°	339.5	319.7	302.0	286.0	274.5	267.9	265.0	265.4	268.7	273.7	281.9
45°	295.5	270.8	248.5	229.2	213.6	203.3	198.3	197.9	200.4	206.2	215.2
47.5°	261.3	235.0	209.9	187.6	170.8	159.7	153.9	152.3	153.9	159.2	170.0
50°	232.9	205.8	179.8	156.8	138.7	127.2	121.8	119.7	121.8	126.3	137.0
52.5°	206.6	178.6	154.3	132.1	112.8	102.9	97.1	95.9	97.1	102.5	111.1
55°	176.1	152.3	128.4	106.2	89.3	79.4	74.9	73.7	74.9	79.8	88.9
57.5°	146.1	125.5	104.5	84.4	70.0	61.3	57.2	55.5	58.4	61.7	72.4
60°	118.1	101.6	83.9	66.3	54.3	46.5	43.2	42.8	43.6	47.7	55.1
62.5°	92.6	79.0	65.0	50.6	40.7	37.4	33.3	32.9	33.7	36.2	42.0
65°	66.7	58.0	47.3	37.0	29.2	24.7	23.0	23.5	24.3	25.9	31.3
67.5°	46.5	40.3	32.9	25.9	20.2	18.1	16.5	16.0	16.5	19.3	22.2
70°	31.3	27.6	22.2	19.8	14.0	11.1	11.5	10.3	11.9	11.9	14.4
72.5°	20.6	18.1	14.8	11.5	9.9	7.8	7.8	7.4	8.2	8.6	10.7
75°	10.7	8.2	8.2	5.8	4.1	2.1	3.7	3.3	2.9	3.3	4.1
77.5°	7.4	6.2	5.8	4.5	4.1	3.3	3.3	3.3	3.3	3.7	4.1
80°	4.5	4.5	3.3	2.9	2.5	2.1	2.5	2.5	2.5	2.5	2.9
82.5°	2.9	2.5	2.5	2.1	2.1	1.6	1.6	1.6	1.6	1.6	2.5
85°	2.5	1.6	1.6	1.2	1.6	2.9	1.2	1.6	1.6	1.6	1.2
87.5°	0.8	1.2	1.2	1.2	0.8	0.4	0.8	1.2	1.2	2.1	1.6
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: P246175

CATALOG NUMBER: LSR8B15D010 EC8B15827 8LBDW0MW

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	766.6	766.6	766.6	766.6	766.6	766.6	766.6	766.6	766.6	766.6	766.6
2.5°	767.9	768.3	768.3	767.9	767.9	767.0	768.7	767.5	767.9	769.5	768.3
5°	768.7	769.1	769.1	768.7	768.7	768.7	769.1	769.1	768.7	768.3	769.1
7.5°	770.3	769.9	769.9	769.1	769.1	768.3	769.1	767.9	768.7	767.9	769.1
10°	768.3	768.7	768.3	767.9	767.9	767.5	767.5	766.2	766.6	765.4	766.2
12.5°	767.0	766.6	766.6	765.8	765.0	764.2	763.8	762.5	762.5	759.6	760.9
15°	763.8	764.2	762.9	761.3	760.5	758.4	757.6	755.9	754.3	752.2	752.6
17.5°	760.9	759.6	758.0	756.3	753.0	751.4	749.8	747.3	746.5	744.0	743.2
20°	752.2	751.4	749.4	746.5	744.4	740.7	739.1	736.6	734.5	732.1	730.8
22.5°	741.1	740.3	737.8	734.9	731.7	730.0	728.4	723.8	721.8	719.3	718.9
25°	727.1	725.9	723.4	720.1	718.5	714.0	712.3	709.0	708.2	705.7	705.3
27.5°	705.7	704.1	701.2	697.1	694.2	691.3	689.7	687.2	686.4	683.9	683.5
30°	673.6	671.6	665.8	664.2	659.2	656.3	656.3	653.1	653.5	651.8	651.8
32.5°	623.0	619.7	615.2	611.9	608.6	607.0	607.0	605.7	606.6	606.6	607.4
35°	555.9	551.4	548.9	546.9	546.9	548.5	548.5	553.5	554.7	557.2	559.2
37.5°	469.9	469.5	472.4	474.9	481.0	488.0	496.7	504.1	511.1	516.0	521.0
40°	376.9	387.2	395.5	407.0	416.4	430.0	445.7	458.4	470.3	479.0	488.0
42.5°	294.2	307.4	324.7	341.5	358.4	376.9	397.5	415.2	430.8	442.8	452.2
45°	229.2	247.3	268.3	289.7	311.5	334.6	356.0	374.1	390.5	402.9	412.3
47.5°	184.8	204.5	228.4	251.8	276.5	300.8	324.7	340.3	353.9	363.8	372.4
50°	152.7	173.7	198.8	225.5	250.2	274.5	295.0	310.3	321.4	330.0	335.4
52.5°	127.6	149.8	176.5	203.3	228.0	250.2	268.7	280.2	289.3	295.5	300.4
55°	105.3	126.7	151.8	176.9	201.2	222.2	237.4	246.1	253.1	256.8	259.7
57.5°	86.0	105.8	128.8	151.8	172.8	190.1	202.1	210.7	214.0	216.9	216.4
60°	67.5	86.0	107.0	126.7	144.9	158.8	167.5	172.4	174.9	176.1	175.3
62.5°	53.1	70.0	86.0	103.3	116.5	128.4	136.6	136.6	137.9	138.3	139.5
65°	39.5	52.3	66.3	79.0	89.7	97.5	102.1	103.3	104.9	104.5	103.7
67.5°	29.2	38.7	49.0	58.4	65.8	70.8	74.1	77.0	76.5	75.7	75.3
70°	20.2	26.3	35.4	41.2	46.5	51.4	52.3	52.7	53.1	53.5	52.7
72.5°	14.0	18.5	23.5	28.4	31.7	33.7	35.8	36.2	36.2	36.2	35.8
75°	7.0	9.5	14.0	16.0	18.9	19.8	21.4	21.4	22.6	21.0	20.6
77.5°	6.2	7.4	9.9	11.5	12.8	14.0	14.4	15.6	15.2	14.4	14.8
80°	3.7	4.5	6.2	7.0	8.6	9.1	9.5	9.9	9.5	9.9	9.9
82.5°	2.9	3.3	4.1	4.1	5.3	5.3	5.8	5.8	6.2	6.2	6.2
85°	1.6	2.9	2.5	4.9	3.3	3.3	4.1	4.9	4.1	4.1	4.9
87.5°	1.6	1.6	1.2	1.6	1.6	1.6	2.1	2.5	2.5	2.9	2.5
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: P246175

CATALOG NUMBER: LSR8B15D010 EC8B15827 8LBDW0MW

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	766.6	766.6	766.6	766.6
2.5°	767.9	768.7	767.5	767.0
5°	769.1	769.1	768.3	768.3
7.5°	769.1	769.1	767.9	767.0
10°	765.8	765.8	764.6	763.8
12.5°	759.6	759.6	759.2	758.0
15°	751.8	751.8	750.2	748.9
17.5°	741.1	741.9	739.9	739.9
20°	729.6	729.2	727.5	726.7
22.5°	717.7	716.8	716.4	714.0
25°	704.9	704.1	702.8	701.6
27.5°	683.1	682.7	681.4	679.8
30°	649.8	649.3	647.7	647.7
32.5°	606.6	606.1	604.5	604.9
35°	561.7	563.4	562.5	560.9
37.5°	524.3	525.5	526.3	525.5
40°	493.0	496.7	497.1	497.9
42.5°	459.7	464.6	466.2	467.1
45°	419.7	424.3	428.0	427.1
47.5°	379.0	382.3	385.6	383.1
50°	339.9	342.0	343.2	343.2
52.5°	302.9	302.9	302.5	302.9
55°	260.5	260.5	258.8	259.7
57.5°	216.0	216.9	215.6	213.6
60°	174.9	172.8	172.0	170.8
62.5°	136.2	136.2	133.3	137.0
65°	102.1	100.8	99.6	99.2
67.5°	74.1	73.7	72.4	72.0
70°	52.3	50.6	50.2	49.4
72.5°	35.0	35.0	34.2	34.2
75°	21.4	19.3	18.9	19.3
77.5°	14.8	14.4	14.4	14.0
80°	9.9	9.5	10.3	9.1
82.5°	6.2	6.6	6.2	6.6
85°	4.1	4.9	4.5	4.5
87.5°	2.5	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)