

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: P244224

Luminaire Tested: **LSR8B10D010 EC8B109730 8LBDW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244224  
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: LSR8B10D010 EC8B109730 8LBDW0LI  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 883.0 lumens  
Efficiency: N/A  
Efficacy: 86.6 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

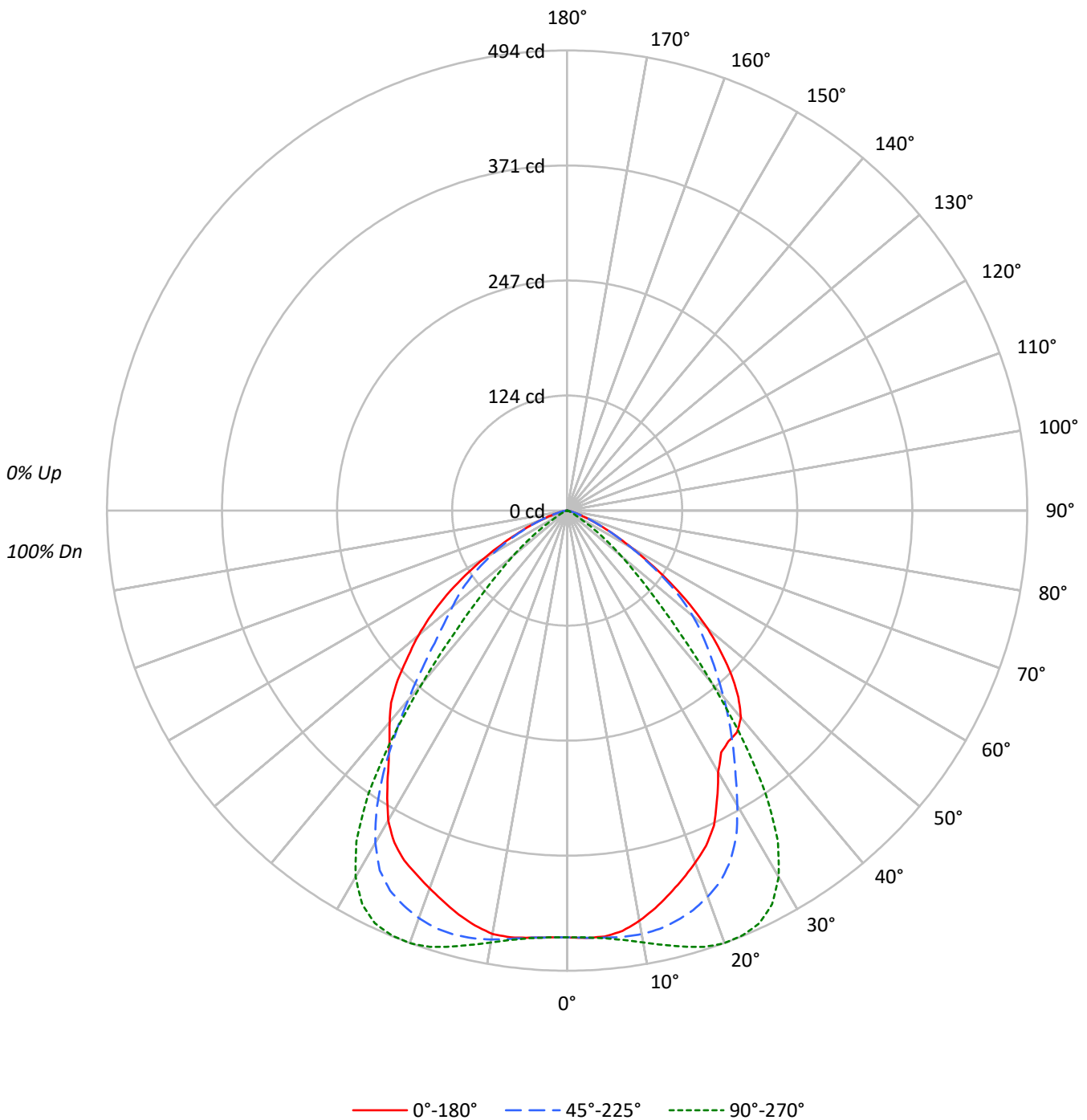
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	44.1	5.0
10°-20°	130.5	14.8
20°-30°	199.1	22.5
30°-40°	207.8	23.5
40°-50°	156.0	17.7
50°-60°	96.0	10.9
60°-70°	39.1	4.4
70°-80°	9.2	1.0
80°-90°	1.3	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°	373.6	42.3
0°-40°	581.4	65.8
0°-60°	833.5	94.4
0°-90°	883.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	883.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	458	458	458	458	458	
5°	459	460	461	460	460	43
15°	426	456	485	471	449	120
25°	373	415	489	450	414	170
35°	302	311	372	344	334	191
45°	250	216	135	201	257	190
55°	135	128	35	128	158	121
65°	42	42	5	57	60	44
75°	7	7	1	13	13	9
85°	1	1	0	2	2	1
90°	0	0	0	0	0	



TEST NUMBER: P244224

CATALOG NUMBER: LSR8B10D010 EC8B109730 8LBDWOLI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	458.1	458.1	458.1	458.1	458.1	458.1	458.1	458.1	458.1	458.1	458.1
2.5°	459.3	458.6	459.3	459.3	459.5	459.0	459.3	459.5	459.0	459.0	459.0
5°	459.0	458.6	459.0	458.8	459.3	459.3	459.8	459.8	460.3	460.3	461.0
7.5°	455.2	454.2	455.2	455.9	456.4	457.3	458.6	459.5	460.5	461.5	462.7
10°	447.1	447.1	447.9	449.3	450.8	452.5	454.7	457.1	459.5	461.7	463.9
12.5°	437.2	436.4	437.9	439.8	442.0	444.7	448.1	451.8	455.6	460.0	463.4
15°	425.7	425.0	426.7	428.7	431.3	435.2	439.4	444.2	449.8	455.6	461.2
17.5°	414.1	413.8	415.5	418.2	420.4	424.5	429.9	435.7	442.0	449.8	457.1
20°	402.2	401.9	403.6	405.8	408.7	412.6	418.0	424.8	432.3	441.1	449.6
22.5°	389.7	390.0	391.5	393.9	396.3	400.4	406.0	412.8	421.1	430.6	440.1
25°	373.0	371.8	373.7	376.1	380.3	383.7	389.0	396.3	404.8	414.8	426.0
27.5°	348.7	348.4	350.1	352.3	356.0	360.1	365.9	373.5	382.5	393.4	404.3
30°	324.3	324.8	325.6	327.8	330.2	334.3	340.2	346.5	355.0	365.4	377.1
32.5°	307.8	307.8	308.8	310.2	311.9	314.1	318.3	322.9	329.5	336.7	345.3
35°	302.2	301.2	302.2	302.5	302.7	303.2	303.9	305.4	307.6	310.7	313.9
37.5°	299.8	299.1	299.1	298.1	296.9	295.4	293.5	291.3	288.9	285.7	283.3
40°	290.3	289.8	289.3	288.4	285.7	282.8	279.6	274.5	268.9	261.1	253.4
42.5°	272.1	271.6	271.3	269.4	267.0	263.6	259.9	254.6	247.5	237.5	226.4
45°	249.5	248.5	247.8	246.1	244.4	241.4	238.0	233.2	226.1	215.9	202.5
47.5°	223.2	222.7	222.5	221.7	220.0	218.3	216.2	212.3	205.9	196.2	182.4
50°	196.7	195.7	196.2	196.0	195.2	194.0	192.6	189.9	185.0	176.3	163.6
52.5°	166.3	166.3	166.1	166.8	167.0	166.8	167.0	164.1	160.0	153.4	142.7
55°	134.7	134.7	135.4	136.4	137.4	137.6	137.4	136.2	133.2	127.9	118.4
57.5°	105.0	104.6	106.0	107.5	108.4	109.4	108.7	107.7	106.0	101.6	94.3
60°	80.0	80.0	81.0	81.9	82.9	83.9	83.6	83.4	81.9	79.0	73.2
62.5°	58.8	59.1	59.1	59.8	60.8	61.8	62.5	61.8	61.0	59.1	55.2
65°	42.1	41.8	42.1	42.8	43.5	44.5	45.0	44.7	44.0	42.5	39.6
67.5°	28.2	28.0	28.9	29.2	29.7	30.6	30.4	30.6	30.4	29.2	26.7
70°	18.5	18.0	18.5	18.2	19.0	19.2	19.7	19.9	19.7	19.0	18.2
72.5°	11.4	11.2	11.4	11.7	11.9	12.2	12.6	12.6	12.4	11.9	10.9
75°	7.3	6.6	6.8	6.3	6.8	6.8	7.3	7.5	7.3	7.3	6.8
77.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.6	4.9	4.4	4.1
80°	2.2	2.2	2.4	2.4	2.4	2.7	2.4	2.4	2.4	2.7	1.9
82.5°	1.7	1.5	1.5	1.5	1.7	1.5	1.5	1.5	1.5	1.5	1.5
85°	0.7	1.0	0.7	0.5	0.7	0.7	1.0	0.7	0.7	0.7	1.0
87.5°	0.2	0.2	0.0	0.0	0.0	0.2	0.0	0.2	0.2	0.5	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: P244224

CATALOG NUMBER: LSR8B10D010 EC8B109730 8LBDWOLI

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	458.1	458.1	458.1	458.1	458.1	458.1	458.1	458.1	458.1	458.1	458.1
2.5°	459.3	458.8	458.8	458.6	459.0	458.6	458.8	458.6	458.6	459.0	458.6
5°	461.0	461.2	460.7	460.5	461.2	461.2	461.2	460.7	460.7	461.0	460.7
7.5°	463.4	463.9	464.1	464.4	464.9	465.1	465.1	464.9	464.6	465.4	464.4
10°	466.1	466.8	468.3	469.0	470.2	470.2	470.7	470.7	470.2	470.7	470.5
12.5°	465.1	469.5	471.9	473.6	475.3	476.8	477.3	477.5	477.3	478.3	477.3
15°	466.8	470.5	474.4	477.3	480.4	482.1	482.6	484.6	485.1	485.3	483.8
17.5°	464.1	470.7	474.8	479.2	483.8	487.0	489.9	491.1	491.4	491.9	489.9
20°	458.1	465.4	471.7	478.0	483.4	488.2	490.7	494.1	493.1	495.0	492.4
22.5°	449.8	458.1	466.1	474.4	480.0	485.8	490.9	493.3	494.5	494.5	491.6
25°	436.7	446.4	455.2	463.7	472.2	479.2	485.1	488.7	489.4	489.2	485.8
27.5°	416.3	426.7	436.9	446.6	457.1	465.4	472.2	476.5	477.8	477.8	474.1
30°	388.0	399.2	409.2	420.9	431.6	440.8	450.3	454.2	456.4	456.4	452.2
32.5°	354.5	364.0	373.2	384.6	396.3	406.8	415.8	421.1	423.8	423.5	419.9
35°	318.0	322.6	329.7	338.2	348.7	358.4	367.1	372.2	376.9	376.6	373.2
37.5°	281.6	280.3	281.1	284.2	290.8	297.6	304.4	309.3	313.2	314.9	314.1
40°	245.8	239.5	233.4	231.2	231.7	234.1	237.8	241.4	245.8	248.0	249.0
42.5°	213.7	203.0	192.3	184.3	179.7	178.2	179.9	181.1	183.8	187.0	190.1
45°	187.9	173.6	159.5	147.1	139.3	134.7	133.7	134.7	136.2	139.3	143.5
47.5°	166.8	150.0	134.2	120.4	108.9	102.8	101.1	100.7	102.1	105.0	110.6
50°	148.1	131.3	113.8	97.7	85.8	79.0	76.6	75.6	77.3	79.5	84.6
52.5°	127.6	111.1	93.1	77.6	65.2	58.1	55.4	54.0	54.9	57.9	63.0
55°	105.5	90.2	73.9	57.9	46.0	39.4	36.2	35.3	36.2	39.4	44.5
57.5°	83.4	70.5	56.9	41.8	31.1	24.6	21.4	20.4	23.1	24.3	29.7
60°	65.2	54.7	43.0	30.6	21.4	16.3	13.1	12.4	13.6	15.8	20.2
62.5°	48.9	42.3	33.1	21.9	15.8	10.5	8.8	8.0	8.8	10.5	13.9
65°	35.5	30.4	23.1	16.0	10.7	7.8	5.8	5.3	6.1	7.3	10.2
67.5°	24.3	20.4	16.0	11.2	7.3	4.9	4.1	4.1	4.4	5.3	7.5
70°	15.8	13.4	10.2	7.3	4.9	3.6	3.2	2.7	3.2	3.9	5.1
72.5°	10.0	8.5	6.6	5.1	3.6	2.7	2.2	1.9	2.4	2.9	3.9
75°	6.1	4.6	3.4	2.7	1.9	1.9	1.9	1.0	1.2	1.9	2.4
77.5°	3.6	3.2	2.7	2.2	1.7	1.0	1.0	1.0	1.2	1.5	2.2
80°	1.9	1.7	1.2	1.2	1.0	0.7	1.0	0.7	0.5	1.2	1.5
82.5°	1.2	1.0	1.0	1.0	1.2	0.5	0.7	0.5	0.7	1.0	0.7
85°	0.7	0.7	0.7	0.5	1.2	0.5	0.5	0.2	0.2	0.5	0.5
87.5°	0.0	0.2	0.2	0.0	0.2	0.0	0.2	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: P244224

CATALOG NUMBER: LSR8B10D010 EC8B109730 8LBDWOLI

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	458.1	458.1	458.1	458.1	458.1	458.1	458.1	458.1	458.1	458.1	458.1
2.5°	458.8	458.6	458.8	458.6	458.6	458.6	458.8	458.8	458.6	458.6	459.0
5°	460.7	460.7	460.7	460.5	460.3	460.3	460.7	460.7	460.0	460.7	460.7
7.5°	464.9	464.1	464.9	463.9	463.4	463.7	463.9	463.4	462.9	463.2	463.2
10°	470.2	469.5	469.5	468.8	468.0	467.6	467.1	465.9	464.6	464.4	463.4
12.5°	476.5	475.3	474.6	473.1	471.9	470.2	468.8	466.8	464.4	462.7	461.0
15°	482.9	480.9	479.2	476.8	474.1	471.2	468.0	464.9	461.0	457.6	454.7
17.5°	488.0	485.3	482.1	478.3	474.4	470.0	465.4	460.7	455.2	450.8	447.4
20°	489.7	485.8	481.7	476.5	471.4	465.4	459.5	453.5	447.1	442.5	438.6
22.5°	487.5	482.9	477.8	472.4	465.6	459.0	452.2	445.2	439.6	433.3	429.6
25°	481.4	475.8	470.2	463.9	457.3	450.0	442.8	435.5	428.7	425.2	420.6
27.5°	469.0	462.9	456.9	450.3	442.8	435.5	427.9	420.9	415.0	410.4	407.7
30°	447.1	440.1	433.0	426.0	419.4	411.9	404.8	399.0	393.2	389.5	386.8
32.5°	413.6	407.3	400.2	393.4	387.3	381.0	375.2	370.1	365.9	363.5	361.5
35°	368.4	362.0	356.7	351.8	346.7	344.0	340.4	337.5	335.8	334.8	334.6
37.5°	311.5	307.8	306.1	305.1	304.2	303.4	303.9	305.1	306.1	307.8	309.8
40°	250.7	253.8	254.8	258.2	261.4	265.5	270.1	275.5	279.8	285.4	289.3
42.5°	195.2	201.1	207.9	215.2	223.0	230.5	239.7	248.2	256.0	263.1	269.2
45°	150.0	159.0	169.2	179.7	190.1	201.1	212.3	222.7	232.0	239.5	245.8
47.5°	116.9	126.9	140.0	152.9	165.6	178.5	190.9	201.8	209.6	216.9	222.5
50°	92.6	104.1	118.4	133.2	147.1	160.7	173.8	184.1	191.8	197.7	201.8
52.5°	71.7	85.3	99.9	115.5	130.3	145.2	157.3	166.8	173.1	178.2	181.4
55°	53.5	66.9	82.4	98.5	113.5	127.9	139.3	147.6	153.2	156.1	157.8
57.5°	38.7	50.8	66.4	82.4	96.0	109.7	118.9	126.4	129.6	131.3	132.0
60°	28.2	39.4	53.2	67.1	80.0	90.9	99.0	104.1	106.5	107.5	107.2
62.5°	20.7	30.4	42.3	54.0	64.4	73.4	79.7	83.2	84.4	84.9	84.1
65°	15.8	23.3	33.6	42.5	50.6	57.1	61.8	63.9	64.7	64.4	63.9
67.5°	11.7	17.5	25.0	31.9	37.7	42.8	45.2	47.2	47.7	46.9	46.2
70°	8.3	12.9	18.2	22.9	27.2	30.2	32.8	33.1	33.1	32.8	32.3
72.5°	5.8	9.0	12.4	15.6	18.2	20.4	21.4	22.1	21.9	21.6	21.2
75°	3.9	5.6	9.0	9.7	12.2	12.9	13.9	13.9	14.1	13.4	13.4
77.5°	2.4	3.9	5.3	6.3	7.3	8.3	8.8	8.8	9.0	8.8	8.8
80°	1.5	2.4	2.9	4.4	4.4	5.1	5.3	5.6	5.1	5.8	5.1
82.5°	1.0	1.5	2.2	2.2	2.7	3.2	3.2	3.4	3.4	3.2	3.2
85°	0.7	1.0	1.2	1.5	1.5	1.7	1.5	1.5	1.7	1.9	1.7
87.5°	0.2	0.5	0.2	0.5	0.5	1.0	0.7	0.7	0.7	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: P244224

CATALOG NUMBER: LSR8B10D010 EC8B109730 8LBDWOLI

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	458.1	458.1	458.1	458.1
2.5°	458.6	458.8	458.6	458.6
5°	460.7	460.5	460.7	460.3
7.5°	462.4	462.4	462.2	462.2
10°	462.4	461.5	461.5	461.5
12.5°	458.8	457.6	456.9	456.4
15°	452.5	450.3	449.3	449.1
17.5°	444.2	442.3	441.1	440.3
20°	434.7	432.8	431.3	431.6
22.5°	426.5	424.3	423.3	422.8
25°	418.2	415.5	414.8	414.3
27.5°	404.8	403.4	402.6	401.9
30°	384.4	383.7	382.5	384.2
32.5°	360.8	359.6	358.6	359.4
35°	334.8	334.1	334.8	334.3
37.5°	311.0	311.7	312.7	313.2
40°	292.3	294.9	295.9	296.4
42.5°	273.5	276.7	278.6	279.8
45°	250.4	253.6	255.8	257.2
47.5°	226.6	229.3	231.5	231.2
50°	205.0	206.4	207.4	208.4
52.5°	183.1	183.1	183.3	183.3
55°	158.3	157.8	157.6	157.8
57.5°	131.0	130.6	130.3	129.6
60°	106.3	104.8	103.8	103.8
62.5°	83.2	81.5	80.7	80.5
65°	62.5	62.2	60.8	60.5
67.5°	45.2	44.3	43.3	43.5
70°	31.9	30.4	30.4	29.9
72.5°	20.7	19.9	19.7	19.7
75°	12.9	12.9	12.4	13.4
77.5°	8.5	8.5	8.3	8.5
80°	5.1	5.1	5.1	4.9
82.5°	3.2	3.4	3.2	3.2
85°	1.7	1.9	1.5	2.2
87.5°	1.0	1.2	1.0	1.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)