

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: P244656

Luminaire Tested: **LSR8B10D010 EC8B10930 8LBDW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244656  
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: LSR8B10D010 EC8B10930 8LBDW0H  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 955.1 lumens  
Efficiency: N/A  
Efficacy: 93.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

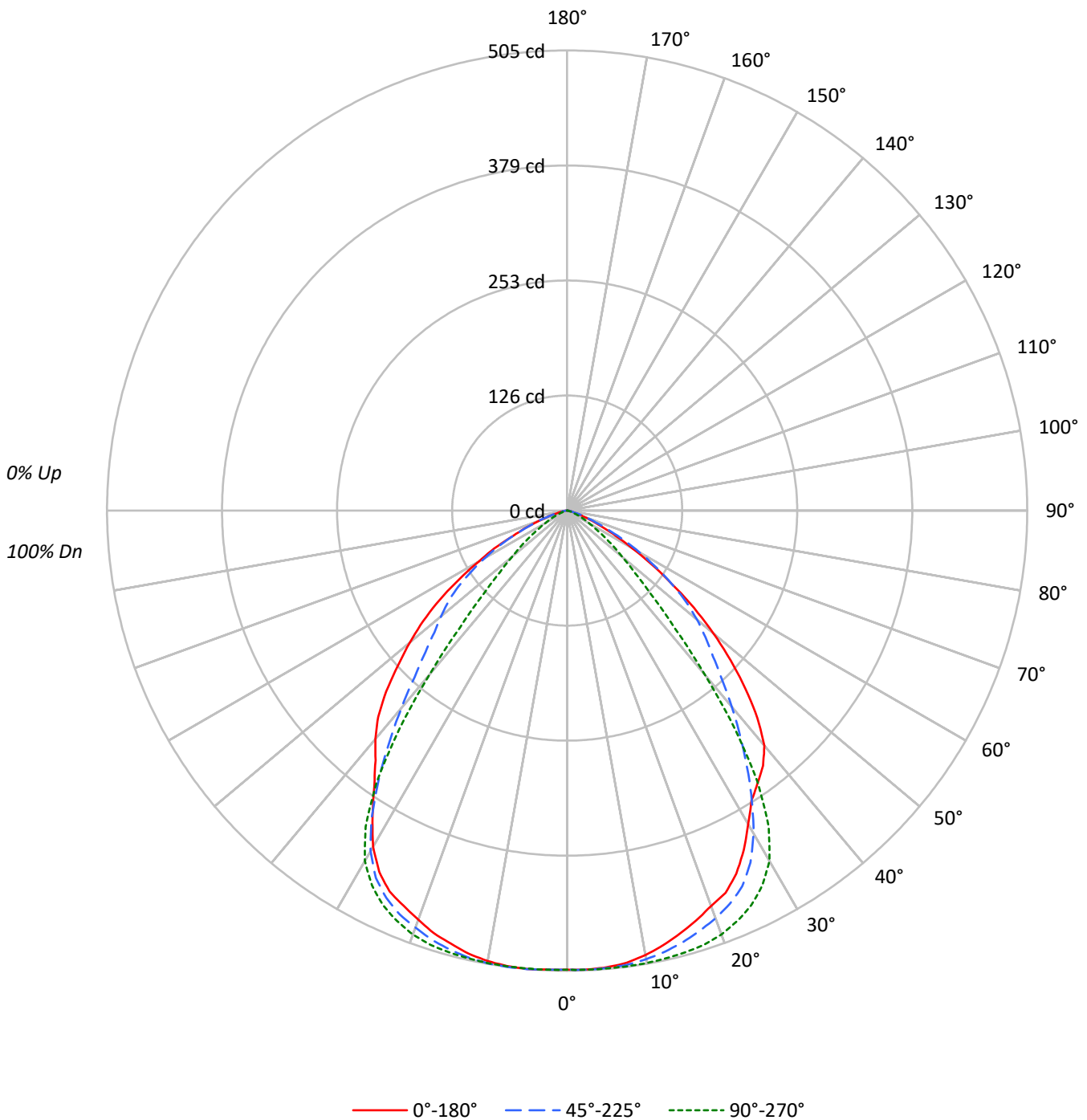
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	52	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°	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°	48.1	5.0
10°-20°	139.7	14.6
20°-30°	212.0	22.2
30°-40°	222.7	23.3
40°-50°	166.9	17.5
50°-60°	107.1	11.2
60°-70°	45.8	4.8
70°-80°	10.8	1.1
80°-90°	2.0	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°	399.8	41.9
0°-40°	622.4	65.2
0°-60°	896.4	93.9
0°-90°	955.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	955.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	504	504	504	504	504	
5°	503	504	504	505	505	48
15°	480	490	502	498	492	135
25°	440	455	478	469	461	201
35°	365	344	365	360	369	229
45°	277	226	130	220	281	212
55°	140	140	48	146	171	127
65°	42	50	16	64	65	45
75°	6	8	2	13	13	9
85°	2	1	1	2	3	2
90°	0	0	0	0	0	



TEST NUMBER: P244656

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9
2.5°	504.2	504.8	504.4	504.4	504.2	504.4	504.4	505.0	505.0	504.4	504.2
5°	503.1	503.7	503.7	503.1	503.1	504.4	503.7	504.2	504.2	503.9	503.9
7.5°	500.6	500.6	501.8	501.0	501.0	501.8	501.5	502.0	502.5	502.9	502.9
10°	495.3	495.8	496.0	496.0	496.4	497.2	497.7	498.8	499.3	499.9	500.2
12.5°	488.5	489.3	489.5	489.3	490.1	491.2	492.6	493.9	494.7	495.8	496.6
15°	480.3	480.3	480.9	481.7	482.3	483.9	485.3	486.9	489.1	490.4	491.8
17.5°	471.5	472.1	472.8	472.8	474.0	476.6	477.4	479.9	482.3	483.6	486.4
20°	461.7	462.3	463.1	463.6	465.0	467.1	468.8	470.9	473.6	476.1	478.8
22.5°	454.1	453.1	453.6	454.1	455.5	457.4	459.3	462.0	464.7	467.1	469.8
25°	439.5	439.8	440.7	441.1	442.8	444.4	446.6	449.9	452.2	455.0	457.9
27.5°	419.8	420.0	421.4	421.4	422.7	425.5	426.9	429.6	432.8	435.5	439.0
30°	397.4	397.8	397.8	399.0	399.7	401.1	402.4	405.2	406.8	409.3	414.1
32.5°	376.8	377.3	377.1	376.8	376.0	375.8	375.4	376.0	376.5	377.3	379.2
35°	364.7	363.3	362.2	360.3	358.2	355.5	353.0	349.8	346.7	344.4	341.7
37.5°	353.0	352.7	351.1	348.4	344.0	339.2	333.5	326.4	319.5	311.9	304.6
40°	336.7	336.0	334.6	330.8	326.0	320.0	312.4	303.8	292.4	280.8	268.8
42.5°	309.2	309.4	307.8	304.8	300.2	294.6	286.8	277.2	265.1	251.3	235.9
45°	277.0	277.0	276.4	274.0	270.7	266.1	260.2	252.3	240.5	226.4	209.9
47.5°	243.5	243.7	242.9	242.4	241.0	238.0	233.7	227.8	219.4	205.8	189.3
50°	209.4	209.4	210.7	210.4	210.4	209.4	207.5	203.9	196.6	185.9	170.4
52.5°	175.3	175.8	176.7	177.7	179.0	181.3	179.0	177.5	172.9	164.5	151.2
55°	140.1	140.7	142.0	143.9	145.5	147.6	148.2	148.2	145.8	140.1	130.1
57.5°	110.1	109.3	110.4	112.0	114.1	116.4	117.9	119.8	119.6	115.8	107.6
60°	82.7	83.1	83.9	85.5	87.1	89.0	91.1	92.8	93.6	91.7	86.5
62.5°	60.3	60.3	61.4	63.0	63.8	66.6	67.9	68.7	69.5	69.3	66.0
65°	42.1	42.7	43.3	44.1	45.0	46.5	47.3	49.0	49.5	49.8	47.3
67.5°	29.7	28.9	29.5	30.0	30.8	31.9	33.5	33.5	34.3	34.3	32.7
70°	18.9	18.9	19.2	20.1	20.5	20.9	21.4	21.9	22.8	22.4	22.4
72.5°	12.7	12.4	12.7	13.0	13.2	14.0	14.0	14.3	14.9	15.1	14.0
75°	6.5	6.7	7.3	7.1	7.8	7.3	7.6	8.4	8.1	7.6	7.6
77.5°	5.4	5.4	5.4	5.2	5.7	5.7	5.4	5.9	5.7	5.7	5.4
80°	3.8	4.0	3.8	3.5	3.8	3.5	3.5	3.5	3.5	3.5	3.3
82.5°	3.0	2.5	2.7	2.5	2.7	2.7	2.5	2.1	2.1	2.5	2.1
85°	2.1	1.6	1.9	1.9	1.6	1.6	1.6	1.6	1.6	1.3	1.3
87.5°	1.3	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: P244656

CATALOG NUMBER: LSR8B10D010 EC8B10930 8LBDW0H

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9
2.5°	504.8	504.4	505.0	504.8	504.8	504.4	504.8	504.4	505.0	503.9	504.2
5°	504.8	504.2	504.4	504.8	505.0	504.4	504.4	504.4	505.0	504.4	504.8
7.5°	503.7	503.3	504.2	504.8	504.4	504.2	504.8	504.4	505.0	504.8	505.2
10°	501.5	501.8	502.3	503.1	503.3	503.7	504.2	504.2	505.0	503.9	504.4
12.5°	498.3	499.3	500.6	501.2	502.3	502.3	502.9	503.1	503.7	503.3	504.2
15°	494.1	495.6	497.2	498.5	499.9	500.6	501.5	501.8	502.5	501.8	502.0
17.5°	489.3	490.9	493.4	495.0	497.2	497.9	499.1	499.6	500.4	499.9	500.2
20°	482.6	484.5	487.2	489.5	490.9	492.8	494.1	495.0	495.6	495.0	495.3
22.5°	473.1	475.8	479.3	481.2	483.9	485.5	485.8	487.7	489.1	487.7	488.2
25°	462.0	464.7	467.5	471.5	474.0	475.8	477.7	478.0	479.3	479.0	478.8
27.5°	443.6	447.2	451.8	455.0	458.3	461.2	463.3	463.9	465.2	464.7	465.0
30°	418.5	422.3	426.5	431.7	436.3	439.3	442.0	443.9	445.3	444.4	444.1
32.5°	382.7	386.5	391.1	396.3	401.7	406.0	409.3	411.7	413.3	412.8	411.4
35°	341.9	343.0	345.9	350.0	354.6	359.2	362.2	364.9	366.8	367.4	367.4
37.5°	300.0	296.5	294.3	294.3	297.0	298.9	301.5	303.2	306.1	307.3	308.1
40°	259.4	251.3	243.7	238.0	234.3	234.0	234.0	234.7	237.5	241.0	244.3
42.5°	223.2	210.2	198.5	188.0	180.4	176.1	174.2	174.4	176.7	179.9	185.3
45°	194.2	178.0	163.3	150.7	140.3	133.6	130.4	130.1	131.7	135.5	141.5
47.5°	171.7	154.5	138.0	123.3	112.2	104.9	101.1	100.1	101.1	104.7	111.8
50°	153.1	135.3	118.2	103.0	91.1	83.6	80.0	78.7	80.0	83.1	90.0
52.5°	135.8	117.4	101.5	86.9	74.1	67.6	63.8	63.0	63.8	67.4	73.1
55°	115.8	100.1	84.4	69.8	58.7	52.2	49.2	48.4	49.2	52.5	58.4
57.5°	96.1	82.5	68.7	55.5	46.0	40.4	37.6	36.5	38.5	40.6	47.6
60°	77.6	66.8	55.2	43.5	35.8	30.6	28.4	28.1	28.7	31.4	36.2
62.5°	60.9	51.9	42.7	33.3	26.8	24.7	21.9	21.6	22.2	23.8	27.6
65°	43.8	38.1	31.1	24.3	19.2	16.3	15.1	15.5	15.9	17.0	20.5
67.5°	30.6	26.5	21.6	17.0	13.2	11.9	10.9	10.5	10.9	12.7	14.6
70°	20.5	18.2	14.6	13.0	9.2	7.3	7.6	6.7	7.8	7.8	9.4
72.5°	13.6	11.9	9.8	7.6	6.5	5.2	5.2	4.8	5.4	5.7	7.1
75°	7.1	5.4	5.4	3.8	2.7	1.3	2.5	2.1	1.9	2.1	2.7
77.5°	4.8	4.0	3.8	3.0	2.7	2.1	2.1	2.1	2.1	2.5	2.7
80°	3.0	3.0	2.1	1.9	1.6	1.3	1.6	1.6	1.6	1.6	1.9
82.5°	1.9	1.6	1.6	1.3	1.3	1.1	1.1	1.1	1.1	1.1	1.6
85°	1.6	1.1	1.1	0.8	1.1	1.9	0.8	1.1	1.1	1.1	0.8
87.5°	0.6	0.8	0.8	0.8	0.6	0.2	0.6	0.8	0.8	1.3	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: P244656

CATALOG NUMBER: LSR8B10D010 EC8B10930 8LBDW0H

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9
2.5°	504.8	505.0	505.0	504.8	504.8	504.2	505.2	504.4	504.8	505.8	505.0
5°	505.2	505.6	505.6	505.2	505.2	505.2	505.6	505.6	505.2	505.0	505.6
7.5°	506.4	506.1	506.1	505.6	505.6	505.0	505.6	504.8	505.2	504.8	505.6
10°	505.0	505.2	505.0	504.8	504.8	504.4	504.4	503.7	503.9	503.1	503.7
12.5°	504.2	503.9	503.9	503.3	502.9	502.3	502.0	501.2	501.2	499.3	500.2
15°	502.0	502.3	501.5	500.4	499.9	498.5	497.9	496.9	495.8	494.5	494.7
17.5°	500.2	499.3	498.3	497.2	495.0	493.9	492.8	491.2	490.7	489.1	488.5
20°	494.5	493.9	492.6	490.7	489.3	486.9	485.8	484.2	482.8	481.2	480.3
22.5°	487.2	486.6	484.9	483.2	480.9	479.9	478.8	475.8	474.4	472.8	472.5
25°	478.0	477.1	475.5	473.4	472.3	469.3	468.2	466.0	465.6	463.9	463.6
27.5°	463.9	462.9	461.0	458.3	456.4	454.5	453.3	451.8	451.2	449.5	449.3
30°	442.8	441.4	437.6	436.6	433.4	431.5	431.5	429.2	429.6	428.4	428.4
32.5°	409.5	407.4	404.3	402.2	400.1	399.0	399.0	398.2	398.7	398.7	399.3
35°	365.4	362.4	360.8	359.5	359.5	360.5	363.8	364.7	366.2	367.6	368.7
37.5°	308.9	308.6	310.5	312.2	316.2	320.8	326.4	331.4	336.0	339.2	342.5
40°	247.7	254.6	260.0	267.5	273.7	282.7	292.9	301.3	309.2	314.9	320.8
42.5°	193.4	202.0	213.4	224.5	235.6	247.7	261.3	273.0	283.2	291.0	297.3
45°	150.7	162.5	176.3	190.5	204.8	219.9	234.0	245.8	256.7	264.8	271.1
47.5°	121.4	134.4	150.1	165.6	181.8	197.7	213.4	223.8	232.6	239.1	244.8
50°	100.3	114.1	130.6	148.2	164.5	180.4	193.9	203.9	211.3	216.9	220.5
52.5°	83.9	98.4	116.0	133.6	149.9	164.5	176.7	184.2	190.1	194.2	197.4
55°	69.3	83.3	99.8	116.4	132.3	146.1	156.0	161.8	166.4	168.8	170.7
57.5°	56.5	69.5	84.6	99.8	113.6	125.0	132.8	138.4	140.7	142.6	142.3
60°	44.4	56.5	70.3	83.3	95.2	104.4	110.1	113.3	114.9	115.8	115.2
62.5°	34.9	46.0	56.5	67.9	76.6	84.4	89.8	89.8	90.6	90.9	91.7
65°	26.0	34.3	43.5	51.9	59.0	64.1	67.0	67.9	68.9	68.7	68.2
67.5°	19.2	25.4	32.2	38.5	43.3	46.5	48.7	50.6	50.3	49.8	49.5
70°	13.2	17.3	23.3	27.0	30.6	33.9	34.3	34.6	34.9	35.2	34.6
72.5°	9.2	12.2	15.5	18.6	20.9	22.2	23.5	23.8	23.8	23.8	23.5
75°	4.6	6.2	9.2	10.5	12.4	13.0	14.0	14.0	14.9	13.8	13.6
77.5°	4.0	4.8	6.5	7.6	8.4	9.2	9.4	10.3	10.0	9.4	9.8
80°	2.5	3.0	4.0	4.6	5.7	5.9	6.2	6.5	6.2	6.5	6.5
82.5°	1.9	2.1	2.7	2.7	3.5	3.5	3.8	3.8	4.0	4.0	4.0
85°	1.1	1.9	1.6	3.3	2.1	2.1	2.7	3.3	2.7	2.7	3.3
87.5°	1.1	1.1	0.8	1.1	1.1	1.1	1.3	1.6	1.6	1.9	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: P244656

CATALOG NUMBER: LSR8B10D010 EC8B10930 8LBDW0H

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	503.9	503.9	503.9	503.9
2.5°	504.8	505.2	504.4	504.2
5°	505.6	505.6	505.0	505.0
7.5°	505.6	505.6	504.8	504.2
10°	503.3	503.3	502.5	502.0
12.5°	499.3	499.3	499.1	498.3
15°	494.1	494.1	493.1	492.3
17.5°	487.2	487.7	486.4	486.4
20°	479.6	479.3	478.2	477.7
22.5°	471.7	471.2	470.9	469.3
25°	463.3	462.9	462.0	461.2
27.5°	449.1	448.7	448.0	446.8
30°	427.1	426.9	425.8	425.8
32.5°	398.7	398.4	397.4	397.6
35°	369.3	370.3	369.8	368.7
37.5°	344.6	345.4	345.9	345.4
40°	324.1	326.4	326.8	327.3
42.5°	302.1	305.4	306.5	307.0
45°	275.9	278.9	281.3	280.8
47.5°	249.1	251.3	253.5	251.8
50°	223.4	224.8	225.5	225.5
52.5°	199.1	199.1	198.9	199.1
55°	171.2	171.2	170.2	170.7
57.5°	142.0	142.6	141.7	140.3
60°	114.9	113.6	113.1	112.2
62.5°	89.6	89.6	87.7	90.0
65°	67.0	66.3	65.5	65.1
67.5°	48.7	48.4	47.6	47.3
70°	34.3	33.3	33.0	32.5
72.5°	23.0	23.0	22.4	22.4
75°	14.0	12.7	12.4	12.7
77.5°	9.8	9.4	9.4	9.2
80°	6.5	6.2	6.7	5.9
82.5°	4.0	4.4	4.0	4.4
85°	2.7	3.3	3.0	3.0
87.5°	1.6	1.6	1.6	1.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)