

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: P246235

Luminaire Tested: **LSR8B15D010 EC8B15927 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246235
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 EC8B15927 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1212.7 lumens
Efficiency: N/A
Efficacy: 84.2 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

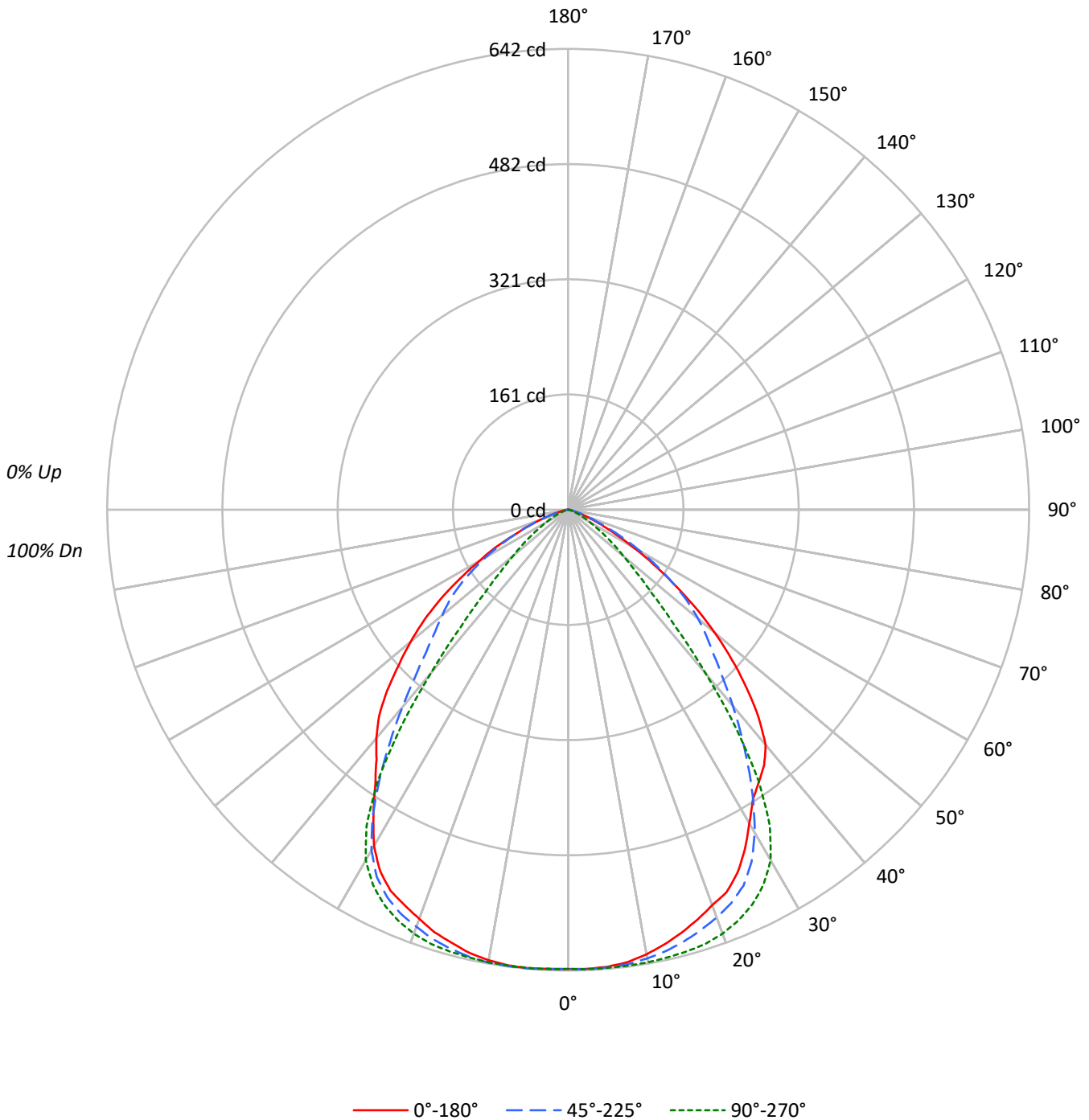
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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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CATALOG NUMBER: LSR8B15D010 EC8B15927 8LBDW0MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.1	5.0
10°-20°	177.3	14.6
20°-30°	269.2	22.2
30°-40°	282.7	23.3
40°-50°	212.0	17.5
50°-60°	136.0	11.2
60°-70°	58.2	4.8
70°-80°	13.7	1.1
80°-90°	2.5	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°	507.6	41.9
0°-40°	790.3	65.2
0°-60°	1138.3	93.9
0°-90°	1212.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1212.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	640	640	640	640	640	
5°	639	640	641	642	641	61
15°	610	623	637	633	625	172
25°	558	578	607	596	586	255
35°	463	437	463	458	468	291
45°	352	287	165	279	356	269
55°	178	178	62	186	217	161
65°	54	63	20	81	83	57
75°	8	10	3	16	16	12
85°	3	2	1	3	4	3
90°	0	0	0	0	0	



TEST NUMBER: P246235

CATALOG NUMBER: LSR8B15D010 EC8B15927 8LBDW0MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	639.9	639.9	639.9	639.9	639.9	639.9	639.9	639.9	639.9	639.9	639.9
2.5°	640.2	640.9	640.6	640.6	640.2	640.6	640.6	641.2	641.2	640.6	640.2
5°	638.9	639.6	639.6	638.9	638.9	640.6	639.6	640.2	640.2	639.9	639.9
7.5°	635.7	635.7	637.1	636.1	636.1	637.1	636.8	637.4	638.1	638.6	638.6
10°	628.9	629.6	629.9	629.9	630.2	631.2	632.0	633.4	634.1	634.7	635.1
12.5°	620.3	621.3	621.7	621.3	622.4	623.7	625.5	627.2	628.2	629.6	630.6
15°	610.0	610.0	610.6	611.7	612.4	614.5	616.2	618.2	621.0	622.7	624.4
17.5°	598.6	599.4	600.4	600.4	601.8	605.1	606.3	609.3	612.4	614.1	617.5
20°	586.4	587.0	588.0	588.7	590.4	593.2	595.2	597.9	601.4	604.5	607.9
22.5°	576.7	575.3	576.0	576.7	578.4	580.8	583.2	586.7	590.1	593.2	596.6
25°	558.1	558.4	559.5	560.1	562.3	564.3	567.1	571.2	574.3	577.7	581.5
27.5°	533.0	533.4	535.2	535.2	536.8	540.2	542.0	545.4	549.6	552.9	557.4
30°	504.6	505.2	505.2	506.6	507.6	509.4	511.1	514.5	516.6	519.6	525.8
32.5°	478.5	479.1	478.8	478.5	477.4	477.1	476.8	477.4	478.1	479.1	481.5
35°	462.9	461.2	459.9	457.5	454.7	451.4	448.2	444.2	440.3	437.2	433.8
37.5°	448.2	447.9	445.8	442.4	436.8	430.6	423.4	414.6	405.7	396.0	386.8
40°	427.6	426.6	424.9	420.1	413.9	406.3	396.7	385.8	371.2	356.5	341.4
42.5°	392.6	393.0	390.8	387.1	381.3	374.1	364.0	352.0	336.6	319.0	299.5
45°	351.7	351.7	351.0	348.0	343.8	338.0	330.4	320.4	305.3	287.4	266.5
47.5°	309.2	309.5	308.5	307.8	306.0	302.3	296.8	289.2	278.6	261.3	240.4
50°	265.8	265.8	267.5	267.2	267.2	265.8	263.5	259.0	249.8	235.9	216.3
52.5°	222.5	223.2	224.3	225.7	227.4	230.1	227.4	225.3	219.5	208.8	192.0
55°	177.9	178.6	180.3	182.7	184.8	187.5	188.2	188.2	185.2	177.9	165.2
57.5°	139.8	138.7	140.2	142.2	144.9	147.7	149.7	152.1	151.8	147.0	136.7
60°	105.1	105.4	106.4	108.6	110.6	113.0	115.8	117.8	118.8	116.4	109.9
62.5°	76.6	76.6	78.0	80.0	81.1	84.5	86.2	87.2	88.3	88.0	83.8
65°	53.6	54.2	54.9	56.0	57.0	59.1	60.1	62.2	62.9	63.2	60.1
67.5°	37.8	36.8	37.5	38.1	39.2	40.5	42.6	42.6	43.6	43.6	41.5
70°	24.1	24.1	24.4	25.4	26.1	26.4	27.1	27.8	28.8	28.5	28.5
72.5°	16.2	15.8	16.2	16.5	16.9	17.9	17.9	18.2	18.9	19.2	17.9
75°	8.2	8.5	9.2	8.9	10.0	9.2	9.6	10.7	10.4	9.6	9.6
77.5°	6.9	6.9	6.9	6.5	7.2	7.2	6.9	7.5	7.2	7.2	6.9
80°	4.8	5.2	4.8	4.5	4.8	4.5	4.5	4.5	4.5	4.5	4.2
82.5°	3.8	3.0	3.5	3.0	3.5	3.5	3.0	2.7	2.7	3.0	2.7
85°	2.7	2.0	2.4	2.4	2.0	2.0	2.0	2.0	2.0	1.7	1.7
87.5°	1.7	1.0	1.0	1.0	1.3	1.3	1.3	1.0	1.3	1.3	0.7
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: P246235

CATALOG NUMBER: LSR8B15D010 EC8B15927 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	639.9	639.9	639.9	639.9	639.9	639.9	639.9	639.9	639.9	639.9	639.9
2.5°	640.9	640.6	641.2	640.9	640.9	640.6	640.9	640.6	641.2	639.9	640.2
5°	640.9	640.2	640.6	640.9	641.2	640.6	640.6	640.6	641.2	640.6	640.9
7.5°	639.6	639.2	640.2	640.9	640.6	640.2	640.9	640.6	641.2	640.9	641.6
10°	636.8	637.1	637.8	638.9	639.2	639.6	640.2	640.2	641.2	639.9	640.6
12.5°	632.7	634.1	635.7	636.4	637.8	637.8	638.6	638.9	639.6	639.2	640.2
15°	627.5	629.2	631.2	633.0	634.7	635.7	636.8	637.1	638.1	637.1	637.4
17.5°	621.3	623.4	626.5	628.5	631.2	632.4	633.7	634.4	635.4	634.7	635.1
20°	612.8	615.2	618.5	621.7	623.4	625.8	627.5	628.5	629.2	628.5	628.9
22.5°	600.8	604.1	608.6	611.0	614.5	616.5	616.8	619.3	621.0	619.3	620.0
25°	586.7	590.1	593.6	598.6	601.8	604.1	606.6	606.9	608.6	608.3	607.9
27.5°	563.3	567.8	573.5	577.7	581.8	585.6	588.4	589.1	590.7	590.1	590.4
30°	531.3	536.2	541.7	548.2	554.1	557.8	561.3	563.6	565.3	564.3	564.0
32.5°	486.0	490.8	496.7	503.2	510.1	515.6	519.6	522.8	524.8	524.1	522.4
35°	434.1	435.5	439.3	444.5	450.2	456.1	459.9	463.3	465.8	466.4	466.4
37.5°	380.9	376.4	373.7	373.7	377.1	379.6	383.0	385.0	388.8	390.2	391.2
40°	329.4	319.0	309.5	302.3	297.4	297.1	297.1	298.1	301.6	306.0	310.2
42.5°	283.4	266.8	252.1	238.7	229.0	223.6	221.2	221.5	224.3	228.4	235.2
45°	246.6	226.0	207.4	191.4	178.3	169.6	165.6	165.2	167.3	172.1	179.7
47.5°	218.1	196.1	175.2	156.6	142.5	133.3	128.5	127.1	128.5	132.9	141.9
50°	194.4	171.8	150.1	130.8	115.8	106.1	101.7	99.9	101.7	105.4	114.4
52.5°	172.5	149.1	128.8	110.2	94.2	85.8	81.1	80.0	81.1	85.5	92.7
55°	147.0	127.1	107.2	88.6	74.6	66.3	62.6	61.5	62.6	66.6	74.1
57.5°	122.0	104.7	87.2	70.4	58.4	51.2	47.7	46.4	48.7	51.5	60.4
60°	98.6	84.8	70.1	55.4	45.3	38.8	36.1	35.7	36.4	39.8	46.0
62.5°	77.3	65.9	54.2	42.3	34.0	31.3	27.8	27.4	28.1	30.3	35.0
65°	55.7	48.5	39.5	30.9	24.4	20.6	19.2	19.6	20.2	21.6	26.1
67.5°	38.8	33.6	27.4	21.6	16.9	15.1	13.7	13.4	13.7	16.2	18.6
70°	26.1	23.1	18.6	16.5	11.7	9.2	9.6	8.5	10.0	10.0	12.0
72.5°	17.2	15.1	12.4	9.6	8.2	6.5	6.5	6.2	6.9	7.2	8.9
75°	8.9	6.9	6.9	4.8	3.5	1.7	3.0	2.7	2.4	2.7	3.5
77.5°	6.2	5.2	4.8	3.8	3.5	2.7	2.7	2.7	2.7	3.0	3.5
80°	3.8	3.8	2.7	2.4	2.0	1.7	2.0	2.0	2.0	2.0	2.4
82.5°	2.4	2.0	2.0	1.7	1.7	1.3	1.3	1.3	1.3	1.3	2.0
85°	2.0	1.3	1.3	1.0	1.3	2.4	1.0	1.3	1.3	1.3	1.0
87.5°	0.7	1.0	1.0	1.0	0.7	0.3	0.7	1.0	1.0	1.7	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: P246235

CATALOG NUMBER: LSR8B15D010 EC8B15927 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	639.9	639.9	639.9	639.9	639.9	639.9	639.9	639.9	639.9	639.9	639.9
2.5°	640.9	641.2	641.2	640.9	640.9	640.2	641.6	640.6	640.9	642.3	641.2
5°	641.6	641.9	641.9	641.6	641.6	641.6	641.9	641.9	641.6	641.2	641.9
7.5°	642.9	642.6	642.6	641.9	641.9	641.2	641.9	640.9	641.6	640.9	641.9
10°	641.2	641.6	641.2	640.9	640.9	640.6	640.6	639.6	639.9	638.9	639.6
12.5°	640.2	639.9	639.9	639.2	638.6	637.8	637.4	636.4	636.4	634.1	635.1
15°	637.4	637.8	636.8	635.4	634.7	633.0	632.4	630.9	629.6	627.9	628.2
17.5°	635.1	634.1	632.7	631.2	628.5	627.2	625.8	623.7	623.0	621.0	620.3
20°	627.9	627.2	625.5	623.0	621.3	618.2	616.8	614.8	613.1	611.0	610.0
22.5°	618.5	617.8	615.8	613.5	610.6	609.3	607.9	604.1	602.4	600.4	600.1
25°	606.9	605.8	603.8	601.1	599.7	595.9	594.6	591.8	591.1	589.1	588.7
27.5°	589.1	587.7	585.2	581.8	579.4	577.0	575.7	573.5	572.8	570.8	570.5
30°	562.3	560.5	555.8	554.4	550.2	547.9	547.9	545.1	545.4	544.1	544.1
32.5°	520.0	517.3	513.4	510.8	507.9	506.6	506.6	505.6	506.2	506.2	506.9
35°	464.1	460.2	458.2	456.4	456.4	457.9	461.9	462.9	465.1	466.8	468.1
37.5°	392.2	392.0	394.3	396.3	401.5	407.4	414.6	420.8	426.6	430.6	434.8
40°	314.7	323.2	330.1	339.6	347.6	358.9	371.9	382.6	392.6	399.8	407.4
42.5°	245.6	256.6	271.0	285.1	299.1	314.7	331.8	346.5	359.7	369.6	377.4
45°	191.4	206.4	224.0	241.8	260.0	279.2	297.1	312.2	325.9	336.3	344.1
47.5°	154.2	170.7	190.6	210.2	230.8	251.1	271.0	284.1	295.4	303.6	310.8
50°	127.5	144.9	165.9	188.2	208.8	229.0	246.3	259.0	268.2	275.5	279.9
52.5°	106.4	125.0	147.4	169.6	190.2	208.8	224.3	233.9	241.4	246.6	250.8
55°	88.0	105.8	126.8	147.7	168.0	185.5	198.2	205.4	211.3	214.3	216.7
57.5°	71.8	88.3	107.6	126.8	144.2	158.7	168.6	175.8	178.6	181.0	180.7
60°	56.4	71.8	89.3	105.8	120.9	132.5	139.8	143.9	146.0	147.0	146.4
62.5°	44.3	58.4	71.8	86.2	97.2	107.2	114.1	114.1	115.1	115.4	116.4
65°	33.0	43.6	55.4	65.9	74.9	81.4	85.2	86.2	87.6	87.2	86.5
67.5°	24.4	32.3	40.8	48.7	54.9	59.1	61.9	64.2	63.9	63.2	62.9
70°	16.9	21.9	29.6	34.3	38.8	43.0	43.6	44.0	44.3	44.7	44.0
72.5°	11.7	15.4	19.6	23.7	26.4	28.1	29.9	30.3	30.3	30.3	29.9
75°	5.9	7.9	11.7	13.4	15.8	16.5	17.9	17.9	18.9	17.6	17.2
77.5°	5.2	6.2	8.2	9.6	10.7	11.7	12.0	13.0	12.7	12.0	12.4
80°	3.0	3.8	5.2	5.9	7.2	7.5	7.9	8.2	7.9	8.2	8.2
82.5°	2.4	2.7	3.5	3.5	4.5	4.5	4.8	4.8	5.2	5.2	5.2
85°	1.3	2.4	2.0	4.2	2.7	2.7	3.5	4.2	3.5	3.5	4.2
87.5°	1.3	1.3	1.0	1.3	1.3	1.3	1.7	2.0	2.0	2.4	2.0
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: P246235

CATALOG NUMBER: LSR8B15D010 EC8B15927 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	639.9	639.9	639.9	639.9
2.5°	640.9	641.6	640.6	640.2
5°	641.9	641.9	641.2	641.2
7.5°	641.9	641.9	640.9	640.2
10°	639.2	639.2	638.1	637.4
12.5°	634.1	634.1	633.7	632.7
15°	627.5	627.5	626.2	625.1
17.5°	618.5	619.3	617.5	617.5
20°	609.0	608.6	607.3	606.6
22.5°	598.9	598.3	597.9	595.9
25°	588.4	587.7	586.7	585.6
27.5°	570.2	569.8	568.8	567.4
30°	542.4	542.0	540.6	540.6
32.5°	506.2	505.9	504.6	504.9
35°	468.8	470.2	469.5	468.1
37.5°	437.6	438.6	439.3	438.6
40°	411.4	414.6	414.9	415.6
42.5°	383.6	387.8	389.1	389.8
45°	350.3	354.2	357.2	356.5
47.5°	316.3	319.0	321.9	319.7
50°	283.7	285.4	286.4	286.4
52.5°	252.8	252.8	252.4	252.8
55°	217.5	217.5	216.0	216.7
57.5°	180.3	181.0	180.0	178.3
60°	146.0	144.2	143.5	142.5
62.5°	113.7	113.7	111.3	114.4
65°	85.2	84.1	83.1	82.8
67.5°	61.9	61.5	60.4	60.1
70°	43.6	42.3	41.8	41.2
72.5°	29.2	29.2	28.5	28.5
75°	17.9	16.2	15.8	16.2
77.5°	12.4	12.0	12.0	11.7
80°	8.2	7.9	8.5	7.5
82.5°	5.2	5.5	5.2	5.5
85°	3.5	4.2	3.8	3.8
87.5°	2.0	2.0	2.0	2.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)