

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: P244219

Luminaire Tested: **LSR8B15D010 EC8B15927 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244219
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: LSR8B15D010 EC8B15927 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1271.2 lumens
Efficiency: N/A
Efficacy: 88.3 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

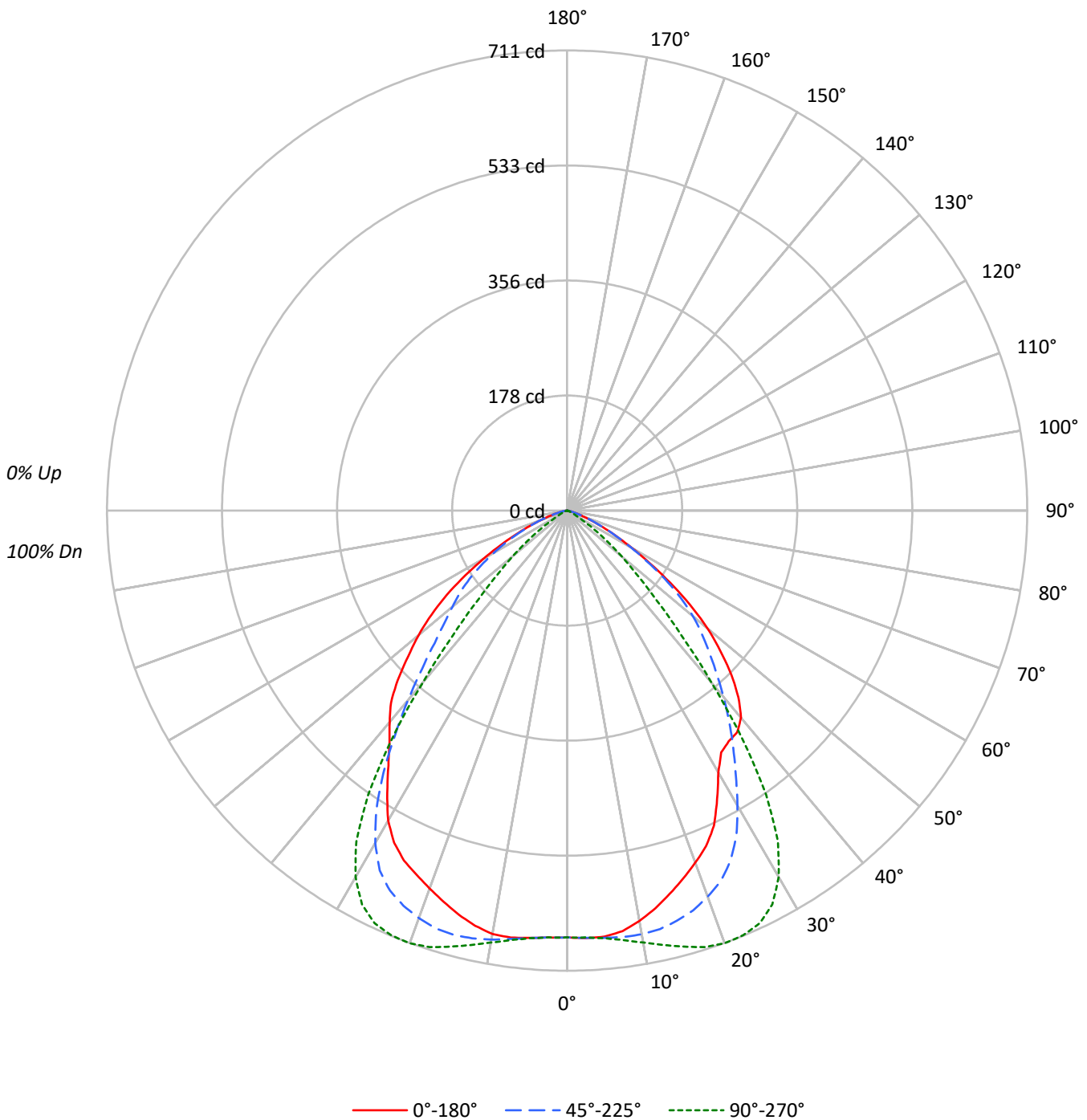
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P244219

CATALOG NUMBER: LSR8B15D010 EC8B15927 8LBDW0LI

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	75	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°			



TEST NUMBER: P244219

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.4	5.0
10°-20°	187.9	14.8
20°-30°	286.6	22.5
30°-40°	299.1	23.5
40°-50°	224.7	17.7
50°-60°	138.2	10.9
60°-70°	56.3	4.4
70°-80°	13.3	1.0
80°-90°	1.8	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°	537.9	42.3
0°-40°	837.0	65.8
0°-60°	1199.9	94.4
0°-90°	1271.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1271.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	660	660	660	660	660	
5°	661	663	663	663	663	63
15°	613	656	698	678	646	173
25°	537	597	704	648	596	244
35°	435	447	536	495	481	275
45°	359	311	194	290	370	274
55°	194	184	51	184	227	174
65°	60	61	8	82	87	63
75°	10	10	1	19	19	13
85°	1	1	0	2	3	1
90°	0	0	0	0	0	



TEST NUMBER: P244219

CATALOG NUMBER: LSR8B15D010 EC8B15927 8LBDW0LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5
2.5°	661.3	660.2	661.3	661.3	661.6	660.9	661.3	661.6	660.9	660.9	660.9
5°	660.9	660.2	660.9	660.5	661.3	661.3	661.9	661.9	662.6	662.6	663.6
7.5°	655.3	653.8	655.3	656.3	657.0	658.5	660.2	661.6	663.0	664.4	666.1
10°	643.7	643.7	644.7	646.9	649.0	651.4	654.5	658.1	661.6	664.8	667.9
12.5°	629.4	628.3	630.4	633.3	636.4	640.2	645.2	650.4	656.0	662.3	667.2
15°	612.9	611.9	614.4	617.2	621.0	626.6	632.6	639.6	647.6	656.0	664.1
17.5°	596.1	595.8	598.3	602.1	605.2	611.2	618.9	627.3	636.4	647.6	658.1
20°	578.9	578.6	581.1	584.2	588.4	594.0	601.8	611.6	622.4	634.9	647.2
22.5°	561.2	561.5	563.6	567.1	570.6	576.6	584.6	594.3	606.3	619.9	633.6
25°	537.0	535.2	538.0	541.6	547.4	552.4	560.0	570.6	582.9	597.2	613.2
27.5°	502.0	501.6	504.1	507.3	512.4	518.4	526.8	537.6	550.6	566.3	582.1
30°	467.0	467.7	468.7	471.8	475.3	481.3	489.7	498.8	511.1	526.2	542.9
32.5°	443.1	443.1	444.6	446.6	449.1	452.2	458.2	464.8	474.3	484.8	497.0
35°	435.2	433.7	435.2	435.5	435.8	436.5	437.5	439.6	442.8	447.4	451.9
37.5°	431.7	430.5	430.5	429.2	427.4	425.2	422.6	419.4	415.9	411.3	407.8
40°	417.9	417.3	416.6	415.1	411.3	407.1	402.5	395.2	387.1	376.0	364.7
42.5°	391.7	391.0	390.6	387.9	384.3	379.5	374.2	366.5	356.4	342.0	325.9
45°	359.1	357.8	356.7	354.3	351.8	347.6	342.7	335.7	325.6	310.8	291.6
47.5°	321.3	320.6	320.3	319.3	316.8	314.3	311.2	305.6	296.4	282.5	262.6
50°	283.2	281.8	282.5	282.2	281.1	279.3	277.2	273.4	266.4	253.8	235.6
52.5°	239.4	239.4	239.1	240.1	240.5	240.1	240.5	236.2	230.3	220.8	205.4
55°	194.0	194.0	195.0	196.4	197.8	198.1	197.8	196.0	191.8	184.2	170.4
57.5°	151.2	150.5	152.7	154.7	156.2	157.5	156.5	155.0	152.7	146.4	135.8
60°	115.2	115.2	116.6	118.0	119.4	120.7	120.4	120.0	118.0	113.7	105.4
62.5°	84.7	85.0	85.0	86.1	87.5	88.9	90.0	88.9	87.9	85.0	79.4
65°	60.5	60.2	60.5	61.6	62.7	64.0	64.8	64.5	63.3	61.3	57.0
67.5°	40.6	40.3	41.6	42.0	42.8	44.1	43.8	44.1	43.8	42.0	38.5
70°	26.6	25.9	26.6	26.2	27.3	27.7	28.4	28.7	28.4	27.3	26.2
72.5°	16.4	16.1	16.4	16.8	17.1	17.6	18.2	18.2	17.9	17.1	15.8
75°	10.5	9.5	9.8	9.1	9.8	9.8	10.5	10.8	10.5	10.5	9.8
77.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.6	7.0	6.3	6.0
80°	3.2	3.2	3.5	3.5	3.5	3.8	3.5	3.5	3.5	3.8	2.8
82.5°	2.5	2.1	2.1	2.1	2.5	2.1	2.1	2.1	2.1	2.1	2.1
85°	1.0	1.3	1.0	0.7	1.0	1.0	1.3	1.0	1.0	1.0	1.3
87.5°	0.3	0.3	0.0	0.0	0.0	0.3	0.0	0.3	0.3	0.7	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: P244219

CATALOG NUMBER: LSR8B15D010 EC8B15927 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5
2.5°	661.3	660.5	660.5	660.2	660.9	660.2	660.5	660.2	660.2	660.9	660.2
5°	663.6	664.1	663.3	663.0	664.1	664.1	664.1	663.3	663.3	663.6	663.3
7.5°	667.2	667.9	668.2	668.6	669.3	669.6	669.6	669.3	668.9	669.9	668.6
10°	671.1	672.1	674.2	675.2	677.0	677.0	677.7	677.7	677.0	677.7	677.4
12.5°	669.6	675.9	679.4	681.9	684.3	686.5	687.2	687.5	687.2	688.5	687.2
15°	672.1	677.4	683.0	687.2	691.6	694.1	694.8	697.6	698.3	698.7	696.6
17.5°	668.2	677.7	683.7	690.0	696.6	701.1	705.4	707.1	707.4	708.2	705.4
20°	659.5	669.9	679.1	688.2	695.9	702.9	706.4	711.3	709.9	712.7	708.9
22.5°	647.6	659.5	671.1	683.0	691.0	699.4	706.7	710.2	712.0	712.0	707.7
25°	628.6	642.7	655.3	667.6	679.8	690.0	698.3	703.6	704.6	704.2	699.4
27.5°	599.3	614.4	629.0	643.1	658.1	669.9	679.8	686.1	687.8	687.8	682.5
30°	558.7	574.8	589.2	605.9	621.3	634.6	648.3	653.8	657.0	657.0	651.0
32.5°	510.4	524.0	537.3	553.7	570.6	585.7	598.6	606.3	610.1	609.8	604.6
35°	457.9	464.5	474.6	486.9	502.0	515.9	528.5	535.9	542.6	542.2	537.3
37.5°	405.3	403.7	404.7	409.2	418.6	428.4	438.3	445.3	450.9	453.3	452.2
40°	353.9	344.8	336.0	332.9	333.6	337.0	342.3	347.6	353.9	357.1	358.4
42.5°	307.7	292.3	276.9	265.4	258.6	256.6	259.1	260.8	264.6	269.2	273.7
45°	270.6	250.0	229.6	211.7	200.6	194.0	192.5	194.0	196.0	200.6	206.6
47.5°	240.1	216.0	193.3	173.2	156.8	148.0	145.6	144.9	147.0	151.2	159.3
50°	213.2	189.0	163.8	140.7	123.5	113.7	110.2	108.9	111.3	114.4	121.8
52.5°	183.8	160.0	134.1	111.7	93.8	83.7	79.8	77.7	79.1	83.4	90.7
55°	151.9	129.8	106.4	83.4	66.1	56.7	52.2	50.7	52.2	56.7	64.0
57.5°	120.0	101.5	81.9	60.2	44.8	35.3	30.8	29.4	33.3	35.0	42.8
60°	93.8	78.8	62.0	44.1	30.8	23.4	18.9	17.9	19.6	22.7	29.0
62.5°	70.3	60.9	47.6	31.5	22.7	15.1	12.6	11.6	12.6	15.1	19.9
65°	51.1	43.8	33.3	23.1	15.4	11.2	8.4	7.6	8.8	10.5	14.7
67.5°	35.0	29.4	23.1	16.1	10.5	7.0	6.0	6.0	6.3	7.6	10.8
70°	22.7	19.2	14.7	10.5	7.0	5.3	4.5	3.8	4.5	5.6	7.3
72.5°	14.4	12.3	9.5	7.3	5.3	3.8	3.2	2.8	3.5	4.2	5.6
75°	8.8	6.6	5.0	3.8	2.8	2.8	2.8	1.3	1.8	2.8	3.5
77.5°	5.3	4.5	3.8	3.2	2.5	1.3	1.3	1.3	1.8	2.1	3.2
80°	2.8	2.5	1.8	1.8	1.3	1.0	1.3	1.0	0.7	1.8	2.1
82.5°	1.8	1.3	1.3	1.3	1.8	0.7	1.0	0.7	1.0	1.3	1.0
85°	1.0	1.0	1.0	0.7	1.8	0.7	0.7	0.3	0.3	0.7	0.7
87.5°	0.0	0.3	0.3	0.0	0.3	0.0	0.3	0.3	0.3	0.3	0.3
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: P244219

CATALOG NUMBER: LSR8B15D010 EC8B15927 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5
2.5°	660.5	660.2	660.5	660.2	660.2	660.2	660.5	660.5	660.2	660.2	660.9
5°	663.3	663.3	663.3	663.0	662.6	662.6	663.3	663.3	662.3	663.3	663.3
7.5°	669.3	668.2	669.3	667.9	667.2	667.6	667.9	667.2	666.4	666.8	666.8
10°	677.0	675.9	675.9	674.9	673.9	673.1	672.4	670.7	668.9	668.6	667.2
12.5°	686.1	684.3	683.3	681.2	679.4	677.0	674.9	672.1	668.6	666.1	663.6
15°	695.1	692.4	690.0	686.5	682.5	678.4	673.9	669.3	663.6	658.8	654.5
17.5°	702.6	698.7	694.1	688.5	683.0	676.7	669.9	663.3	655.3	649.0	644.1
20°	705.0	699.4	693.4	686.1	678.7	669.9	661.6	652.8	643.7	637.1	631.5
22.5°	701.9	695.1	687.8	680.2	670.4	660.9	651.0	640.9	632.9	623.8	618.5
25°	693.1	685.0	677.0	667.9	658.5	647.9	637.4	627.0	617.2	612.2	605.6
27.5°	675.2	666.4	657.8	648.3	637.4	627.0	616.1	605.9	597.5	590.8	587.0
30°	643.7	633.6	623.5	613.2	603.8	593.0	582.9	574.4	566.0	560.8	556.9
32.5°	595.5	586.4	576.2	566.3	557.7	548.6	540.1	532.8	526.8	523.4	520.5
35°	530.3	521.2	513.6	506.5	499.2	495.3	490.0	485.9	483.4	482.1	481.6
37.5°	448.4	443.1	440.7	439.3	437.8	436.8	437.5	439.3	440.7	443.1	446.0
40°	360.9	365.4	366.9	371.7	376.3	382.3	388.9	396.6	402.9	411.0	416.6
42.5°	281.1	289.5	299.2	309.8	321.0	331.9	345.2	357.4	368.6	378.8	387.4
45°	216.0	228.9	243.7	258.6	273.7	289.5	305.6	320.6	333.9	344.8	353.9
47.5°	168.4	182.7	201.6	220.2	238.4	257.0	274.8	290.6	301.7	312.2	320.3
50°	133.3	149.8	170.4	191.8	211.7	231.4	250.3	264.9	276.2	284.6	290.6
52.5°	103.3	122.8	143.9	166.3	187.6	209.0	226.5	240.1	249.2	256.6	261.1
55°	77.1	96.3	118.7	141.8	163.5	184.2	200.6	212.5	220.5	224.8	227.1
57.5°	55.7	73.1	95.5	118.7	138.3	157.8	171.2	182.0	186.5	189.0	190.1
60°	40.6	56.7	76.6	96.6	115.2	131.0	142.4	149.8	153.3	154.7	154.4
62.5°	29.7	43.8	60.9	77.7	92.8	105.8	114.9	119.7	121.5	122.2	121.2
65°	22.7	33.6	48.3	61.3	72.8	82.2	88.9	92.0	93.1	92.8	92.0
67.5°	16.8	25.2	36.1	45.9	54.2	61.6	65.1	68.0	68.6	67.6	66.5
70°	11.9	18.6	26.2	33.0	39.2	43.4	47.2	47.6	47.6	47.2	46.6
72.5°	8.4	12.9	17.9	22.4	26.2	29.4	30.8	31.8	31.5	31.2	30.5
75°	5.6	8.1	12.9	14.0	17.6	18.6	19.9	19.9	20.2	19.2	19.2
77.5°	3.5	5.6	7.6	9.1	10.5	11.9	12.6	12.6	12.9	12.6	12.6
80°	2.1	3.5	4.2	6.3	6.3	7.3	7.6	8.1	7.3	8.4	7.3
82.5°	1.3	2.1	3.2	3.2	3.8	4.5	4.5	5.0	5.0	4.5	4.5
85°	1.0	1.3	1.8	2.1	2.1	2.5	2.1	2.1	2.5	2.8	2.5
87.5°	0.3	0.7	0.3	0.7	0.7	1.3	1.0	1.0	1.0	1.3	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: P244219

CATALOG NUMBER: LSR8B15D010 EC8B15927 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	659.5	659.5	659.5	659.5
2.5°	660.2	660.5	660.2	660.2
5°	663.3	663.0	663.3	662.6
7.5°	665.8	665.8	665.4	665.4
10°	665.8	664.4	664.4	664.4
12.5°	660.5	658.8	657.8	657.0
15°	651.4	648.3	646.9	646.5
17.5°	639.6	636.8	634.9	633.9
20°	625.8	623.0	621.0	621.3
22.5°	614.0	610.9	609.4	608.7
25°	602.1	598.3	597.2	596.5
27.5°	582.9	580.7	579.7	578.6
30°	553.4	552.4	550.6	553.1
32.5°	519.4	517.7	516.3	517.4
35°	482.1	480.9	482.1	481.3
37.5°	447.8	448.8	450.1	450.9
40°	420.8	424.6	426.0	426.7
42.5°	393.8	398.4	401.2	402.9
45°	360.6	365.1	368.2	370.3
47.5°	326.2	330.1	333.2	332.9
50°	295.1	297.2	298.6	300.0
52.5°	263.6	263.6	263.9	263.9
55°	227.9	227.1	226.8	227.1
57.5°	188.7	188.0	187.6	186.5
60°	153.0	150.9	149.5	149.5
62.5°	119.7	117.2	116.2	115.9
65°	90.0	89.7	87.5	87.2
67.5°	65.1	63.7	62.3	62.7
70°	45.9	43.8	43.8	43.1
72.5°	29.7	28.7	28.4	28.4
75°	18.6	18.6	17.9	19.2
77.5°	12.3	12.3	11.9	12.3
80°	7.3	7.3	7.3	7.0
82.5°	4.5	5.0	4.5	4.5
85°	2.5	2.8	2.1	3.2
87.5°	1.3	1.8	1.3	1.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)