

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: P246115

Luminaire Tested: **LSR8B15D010 EC8B15835 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246115
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 EC8B15835 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1386.0 lumens
Efficiency: N/A
Efficacy: 96.3 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

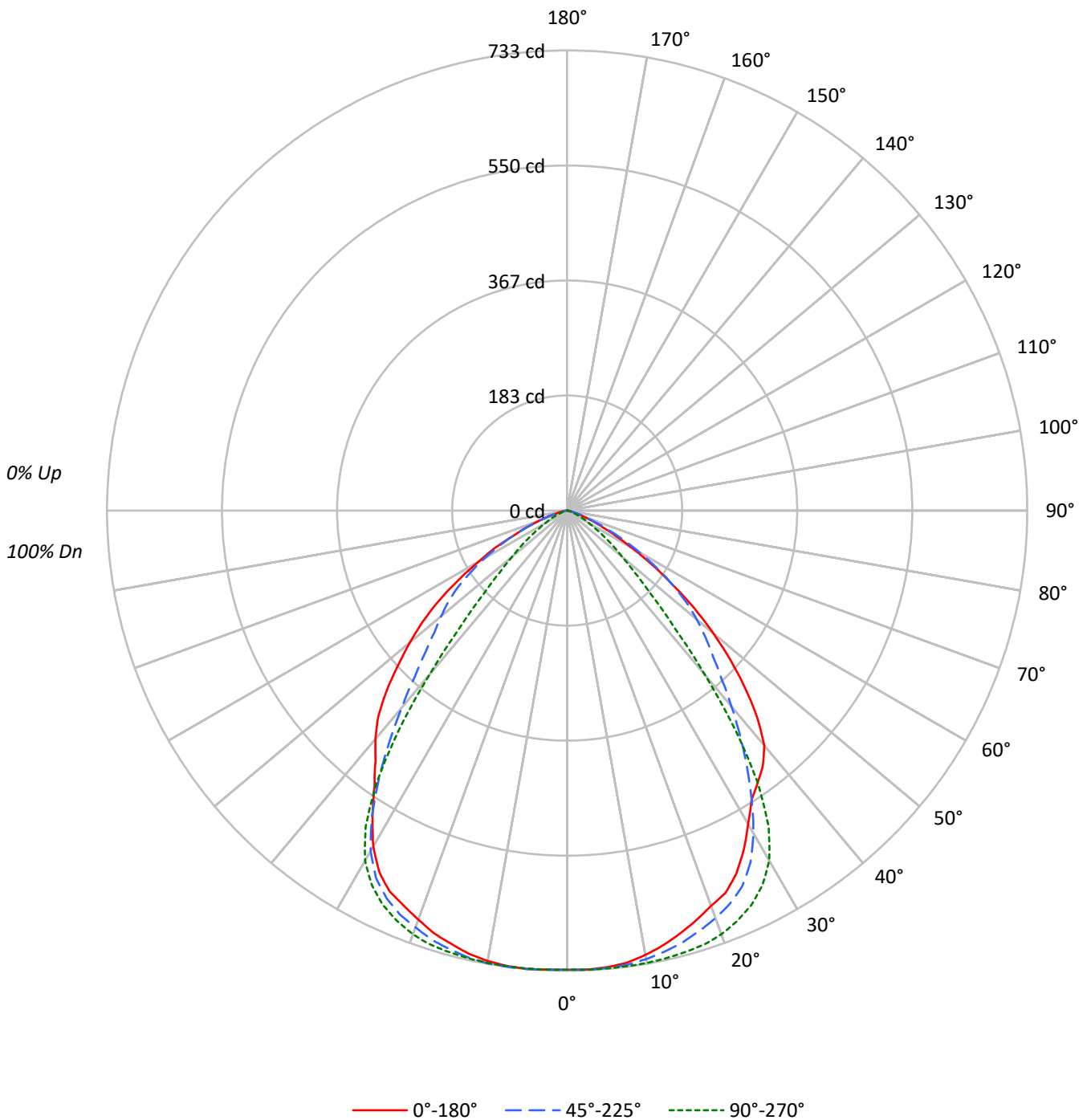
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P246115

CATALOG NUMBER: LSR8B15D010 EC8B15835 8LBDW0B

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	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°	22551	22551	22551
5°	22600	22661	22686
10°	22504	22911	22811
15°	22254	23244	22807
20°	21990	23571	22748
25°	21704	23599	22772
30°	20531	22934	21998
35°	19918	19933	20140
40°	19672	13715	19121
45°	17531	8233	17766
50°	14574	5478	15706
55°	10930	3779	13317
60°	7407	2516	10046
65°	4465	1634	6902
70°	2479	884	4247
75°	1120	369	2204
80°	977	426	1527
85°	1097	566	1521



TEST NUMBER: P246115

CATALOG NUMBER: LSR8B15D010 EC8B15835 8LBDW0B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.8	5.0
10°-20°	202.7	14.6
20°-30°	307.6	22.2
30°-40°	323.1	23.3
40°-50°	242.2	17.5
50°-60°	155.4	11.2
60°-70°	66.5	4.8
70°-80°	15.7	1.1
80°-90°	2.9	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°	580.1	41.9
0°-40°	903.2	65.2
0°-60°	1300.9	93.9
0°-90°	1386.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1386.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	731	731	731	731	731	
5°	730	731	732	733	733	69
15°	697	712	728	723	714	197
25°	638	660	694	681	669	291
35°	529	500	530	523	535	332
45°	402	328	189	319	407	308
55°	203	203	70	212	248	184
65°	61	72	22	93	95	65
75°	9	11	3	19	18	14
85°	3	2	2	3	4	3
90°	0	0	0	0	0	



TEST NUMBER: P246115

CATALOG NUMBER: LSR8B15D010 EC8B15835 8LBDW0B

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	731.3	731.3	731.3	731.3	731.3	731.3	731.3	731.3	731.3	731.3	731.3
2.5°	731.7	732.5	732.1	732.1	731.7	732.1	732.1	732.9	732.9	732.1	731.7
5°	730.1	730.9	730.9	730.1	730.1	732.1	730.9	731.7	731.7	731.3	731.3
7.5°	726.6	726.6	728.1	727.0	727.0	728.1	727.7	728.5	729.3	729.7	729.7
10°	718.7	719.5	719.9	719.9	720.3	721.5	722.3	723.8	724.6	725.4	725.8
12.5°	708.9	710.1	710.5	710.1	711.3	712.8	714.8	716.8	717.9	719.5	720.7
15°	697.1	697.1	697.9	699.1	699.9	702.2	704.2	706.5	709.7	711.7	713.6
17.5°	684.2	685.0	686.1	686.1	687.7	691.6	692.8	696.3	699.9	701.8	705.8
20°	670.1	670.8	672.0	672.8	674.8	677.9	680.3	683.4	687.3	690.9	694.8
22.5°	659.1	657.5	658.3	659.1	661.0	663.8	666.5	670.4	674.4	677.9	681.8
25°	637.9	638.3	639.4	640.2	642.6	644.9	648.1	652.8	656.3	660.2	664.5
27.5°	609.2	609.6	611.6	611.6	613.5	617.4	619.4	623.3	628.1	632.0	637.1
30°	576.6	577.4	577.4	579.0	580.2	582.1	584.1	588.0	590.4	593.9	601.0
32.5°	546.8	547.6	547.2	546.8	545.6	545.2	544.8	545.6	546.4	547.6	550.3
35°	529.1	527.2	525.6	522.9	519.7	515.8	512.2	507.5	503.2	499.7	495.8
37.5°	512.2	511.9	509.5	505.6	499.3	492.2	484.0	473.8	463.6	452.6	442.0
40°	488.7	487.5	485.6	480.1	473.0	464.4	453.4	440.8	424.3	407.4	390.2
42.5°	448.7	449.1	446.7	442.4	435.7	427.5	416.1	402.3	384.7	364.7	342.3
45°	402.0	402.0	401.2	397.6	392.9	386.2	377.6	366.2	349.0	328.5	304.6
47.5°	353.3	353.7	352.5	351.7	349.7	345.4	339.1	330.5	318.3	298.7	274.8
50°	303.8	303.8	305.8	305.4	305.4	303.8	301.1	296.0	285.4	269.7	247.3
52.5°	254.4	255.1	256.3	257.9	259.9	263.0	259.9	257.5	250.8	238.7	219.4
55°	203.3	204.1	206.1	208.8	211.2	214.3	215.1	215.1	211.6	203.3	188.8
57.5°	159.8	158.6	160.2	162.5	165.6	168.8	171.1	173.9	173.5	168.0	156.2
60°	120.1	120.5	121.7	124.0	126.4	129.1	132.3	134.6	135.8	133.1	125.6
62.5°	87.5	87.5	89.1	91.5	92.6	96.6	98.5	99.7	100.9	100.5	95.8
65°	61.2	62.0	62.8	64.0	65.2	67.5	68.7	71.0	71.8	72.2	68.7
67.5°	43.2	42.0	42.8	43.6	44.7	46.3	48.7	48.7	49.8	49.8	47.5
70°	27.5	27.5	27.9	29.0	29.8	30.2	31.0	31.8	33.0	32.6	32.6
72.5°	18.5	18.1	18.5	18.8	19.2	20.4	20.4	20.8	21.6	22.0	20.4
75°	9.4	9.8	10.6	10.2	11.4	10.6	11.0	12.2	11.8	11.0	11.0
77.5°	7.8	7.8	7.8	7.5	8.2	8.2	7.8	8.6	8.2	8.2	7.8
80°	5.5	5.9	5.5	5.1	5.5	5.1	5.1	5.1	5.1	5.1	4.7
82.5°	4.3	3.5	3.9	3.5	3.9	3.9	3.5	3.1	3.1	3.5	3.1
85°	3.1	2.4	2.7	2.7	2.4	2.4	2.4	2.4	2.4	2.0	2.0
87.5°	2.0	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: P246115

CATALOG NUMBER: LSR8B15D010 EC8B15835 8LBDW0B

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	731.3	731.3	731.3	731.3	731.3	731.3	731.3	731.3	731.3	731.3	731.3
2.5°	732.5	732.1	732.9	732.5	732.5	732.1	732.5	732.1	732.9	731.3	731.7
5°	732.5	731.7	732.1	732.5	732.9	732.1	732.1	732.1	732.9	732.1	732.5
7.5°	730.9	730.5	731.7	732.5	732.1	731.7	732.5	732.1	732.9	732.5	733.2
10°	727.7	728.1	728.9	730.1	730.5	730.9	731.7	731.7	732.9	731.3	732.1
12.5°	723.0	724.6	726.6	727.4	728.9	728.9	729.7	730.1	730.9	730.5	731.7
15°	717.2	719.1	721.5	723.4	725.4	726.6	727.7	728.1	729.3	728.1	728.5
17.5°	710.1	712.4	716.0	718.3	721.5	722.6	724.2	725.0	726.2	725.4	725.8
20°	700.3	703.0	706.9	710.5	712.4	715.2	717.2	718.3	719.1	718.3	718.7
22.5°	686.5	690.5	695.6	698.3	702.2	704.6	705.0	707.7	709.7	707.7	708.5
25°	670.4	674.4	678.3	684.2	687.7	690.5	693.2	693.6	695.6	695.2	694.8
27.5°	643.7	648.9	655.5	660.2	664.9	669.3	672.4	673.2	675.2	674.4	674.8
30°	607.2	612.7	619.0	626.5	633.2	637.5	641.4	644.1	646.1	644.9	644.5
32.5°	555.4	560.9	567.6	575.1	582.9	589.2	593.9	597.4	599.8	599.0	597.0
35°	496.2	497.7	502.0	507.9	514.6	521.3	525.6	529.5	532.3	533.1	533.1
37.5°	435.3	430.2	427.1	427.1	431.0	433.7	437.7	440.0	444.3	445.9	447.1
40°	376.4	364.7	353.7	345.4	339.9	339.5	339.5	340.7	344.6	349.7	354.5
42.5°	323.8	305.0	288.1	272.8	261.8	255.5	252.8	253.2	256.3	261.0	268.9
45°	281.8	258.3	237.1	218.6	203.7	193.9	189.2	188.8	191.2	196.7	205.3
47.5°	249.3	224.1	200.2	179.0	162.9	152.3	146.8	145.2	146.8	151.9	162.1
50°	222.2	196.3	171.5	149.6	132.3	121.3	116.2	114.2	116.2	120.5	130.7
52.5°	197.0	170.4	147.2	126.0	107.6	98.1	92.6	91.5	92.6	97.7	106.0
55°	168.0	145.2	122.5	101.3	85.2	75.8	71.4	70.3	71.4	76.2	84.8
57.5°	139.4	119.7	99.7	80.5	66.7	58.5	54.6	53.0	55.7	58.9	69.1
60°	112.7	97.0	80.1	63.2	51.8	44.4	41.2	40.8	41.6	45.5	52.6
62.5°	88.3	75.4	62.0	48.3	38.9	35.7	31.8	31.4	32.2	34.5	40.0
65°	63.6	55.4	45.1	35.3	27.9	23.6	22.0	22.4	23.2	24.7	29.8
67.5°	44.4	38.5	31.4	24.7	19.2	17.3	15.7	15.3	15.7	18.5	21.2
70°	29.8	26.3	21.2	18.8	13.4	10.6	11.0	9.8	11.4	11.4	13.7
72.5°	19.6	17.3	14.1	11.0	9.4	7.5	7.5	7.1	7.8	8.2	10.2
75°	10.2	7.8	7.8	5.5	3.9	2.0	3.5	3.1	2.7	3.1	3.9
77.5°	7.1	5.9	5.5	4.3	3.9	3.1	3.1	3.1	3.1	3.5	3.9
80°	4.3	4.3	3.1	2.7	2.4	2.0	2.4	2.4	2.4	2.4	2.7
82.5°	2.7	2.4	2.4	2.0	2.0	1.6	1.6	1.6	1.6	1.6	2.4
85°	2.4	1.6	1.6	1.2	1.6	2.7	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	2.0	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: P246115

CATALOG NUMBER: LSR8B15D010 EC8B15835 8LBDW0B

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	731.3	731.3	731.3	731.3	731.3	731.3	731.3	731.3	731.3	731.3	731.3
2.5°	732.5	732.9	732.9	732.5	732.5	731.7	733.2	732.1	732.5	734.0	732.9
5°	733.2	733.6	733.6	733.2	733.2	733.2	733.6	733.6	733.2	732.9	733.6
7.5°	734.8	734.4	734.4	733.6	733.6	732.9	733.6	732.5	733.2	732.5	733.6
10°	732.9	733.2	732.9	732.5	732.5	732.1	732.1	730.9	731.3	730.1	730.9
12.5°	731.7	731.3	731.3	730.5	729.7	728.9	728.5	727.4	727.4	724.6	725.8
15°	728.5	728.9	727.7	726.2	725.4	723.4	722.6	721.1	719.5	717.5	717.9
17.5°	725.8	724.6	723.0	721.5	718.3	716.8	715.2	712.8	712.0	709.7	708.9
20°	717.5	716.8	714.8	712.0	710.1	706.5	705.0	702.6	700.7	698.3	697.1
22.5°	706.9	706.2	703.8	701.1	697.9	696.3	694.8	690.5	688.5	686.1	685.7
25°	693.6	692.4	690.1	686.9	685.4	681.0	679.5	676.3	675.5	673.2	672.8
27.5°	673.2	671.6	668.9	664.9	662.2	659.4	657.9	655.5	654.7	652.4	652.0
30°	642.6	640.6	635.1	633.5	628.8	626.1	626.1	622.9	623.3	621.8	621.8
32.5°	594.3	591.2	586.8	583.7	580.5	579.0	579.0	577.8	578.6	578.6	579.4
35°	530.3	526.0	523.6	521.7	521.7	523.2	528.0	529.1	531.5	533.4	535.0
37.5°	448.3	447.9	450.6	453.0	458.9	465.5	473.8	480.9	487.5	492.2	496.9
40°	359.6	369.4	377.2	388.2	397.2	410.2	425.1	437.3	448.7	456.9	465.5
42.5°	280.7	293.2	309.7	325.8	341.9	359.6	379.2	396.1	411.0	422.4	431.4
45°	218.6	235.9	255.9	276.3	297.1	319.1	339.5	356.8	372.5	384.3	393.3
47.5°	176.2	195.1	217.9	240.2	263.8	286.9	309.7	324.6	337.6	347.0	355.2
50°	145.6	165.6	189.6	215.1	238.7	261.8	281.4	296.0	306.6	314.8	319.9
52.5°	121.7	142.9	168.4	193.9	217.5	238.7	256.3	267.3	275.9	281.8	286.5
55°	100.5	120.9	144.8	168.8	191.9	212.0	226.5	234.7	241.4	244.9	247.7
57.5°	82.0	100.9	122.9	144.8	164.9	181.4	192.7	201.0	204.1	206.9	206.5
60°	64.4	82.0	102.1	120.9	138.2	151.5	159.8	164.5	166.8	168.0	167.2
62.5°	50.6	66.7	82.0	98.5	111.1	122.5	130.3	130.3	131.5	131.9	133.1
65°	37.7	49.8	63.2	75.4	85.6	93.0	97.4	98.5	100.1	99.7	98.9
67.5°	27.9	36.9	46.7	55.7	62.8	67.5	70.7	73.4	73.0	72.2	71.8
70°	19.2	25.1	33.8	39.3	44.4	49.1	49.8	50.2	50.6	51.0	50.2
72.5°	13.4	17.7	22.4	27.1	30.2	32.2	34.2	34.5	34.5	34.5	34.2
75°	6.7	9.0	13.4	15.3	18.1	18.8	20.4	20.4	21.6	20.0	19.6
77.5°	5.9	7.1	9.4	11.0	12.2	13.4	13.7	14.9	14.5	13.7	14.1
80°	3.5	4.3	5.9	6.7	8.2	8.6	9.0	9.4	9.0	9.4	9.4
82.5°	2.7	3.1	3.9	3.9	5.1	5.1	5.5	5.5	5.9	5.9	5.9
85°	1.6	2.7	2.4	4.7	3.1	3.1	3.9	4.7	3.9	3.9	4.7
87.5°	1.6	1.6	1.2	1.6	1.6	1.6	2.0	2.4	2.4	2.7	2.4
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: P246115

CATALOG NUMBER: LSR8B15D010 EC8B15835 8LBDW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	731.3	731.3	731.3	731.3
2.5°	732.5	733.2	732.1	731.7
5°	733.6	733.6	732.9	732.9
7.5°	733.6	733.6	732.5	731.7
10°	730.5	730.5	729.3	728.5
12.5°	724.6	724.6	724.2	723.0
15°	717.2	717.2	715.6	714.4
17.5°	706.9	707.7	705.8	705.8
20°	696.0	695.6	694.0	693.2
22.5°	684.6	683.8	683.4	681.0
25°	672.4	671.6	670.4	669.3
27.5°	651.6	651.2	650.0	648.5
30°	619.8	619.4	617.8	617.8
32.5°	578.6	578.2	576.6	577.0
35°	535.8	537.4	536.6	535.0
37.5°	500.1	501.3	502.0	501.3
40°	470.2	473.8	474.2	475.0
42.5°	438.5	443.2	444.7	445.5
45°	400.4	404.7	408.2	407.4
47.5°	361.5	364.7	367.8	365.4
50°	324.2	326.2	327.4	327.4
52.5°	288.9	288.9	288.5	288.9
55°	248.5	248.5	246.9	247.7
57.5°	206.1	206.9	205.7	203.7
60°	166.8	164.9	164.1	162.9
62.5°	129.9	129.9	127.2	130.7
65°	97.4	96.2	95.0	94.6
67.5°	70.7	70.3	69.1	68.7
70°	49.8	48.3	47.9	47.1
72.5°	33.4	33.4	32.6	32.6
75°	20.4	18.5	18.1	18.5
77.5°	14.1	13.7	13.7	13.4
80°	9.4	9.0	9.8	8.6
82.5°	5.9	6.3	5.9	6.3
85°	3.9	4.7	4.3	4.3
87.5°	2.4	2.4	2.4	2.4
90°	0.0	0.0	0.0	0.0

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