

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: P246216

Luminaire Tested: **LSR8B10D010 EC8B10935 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246216
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 EC8B10935 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 975.0 lumens
Efficiency: N/A
Efficacy: 95.6 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

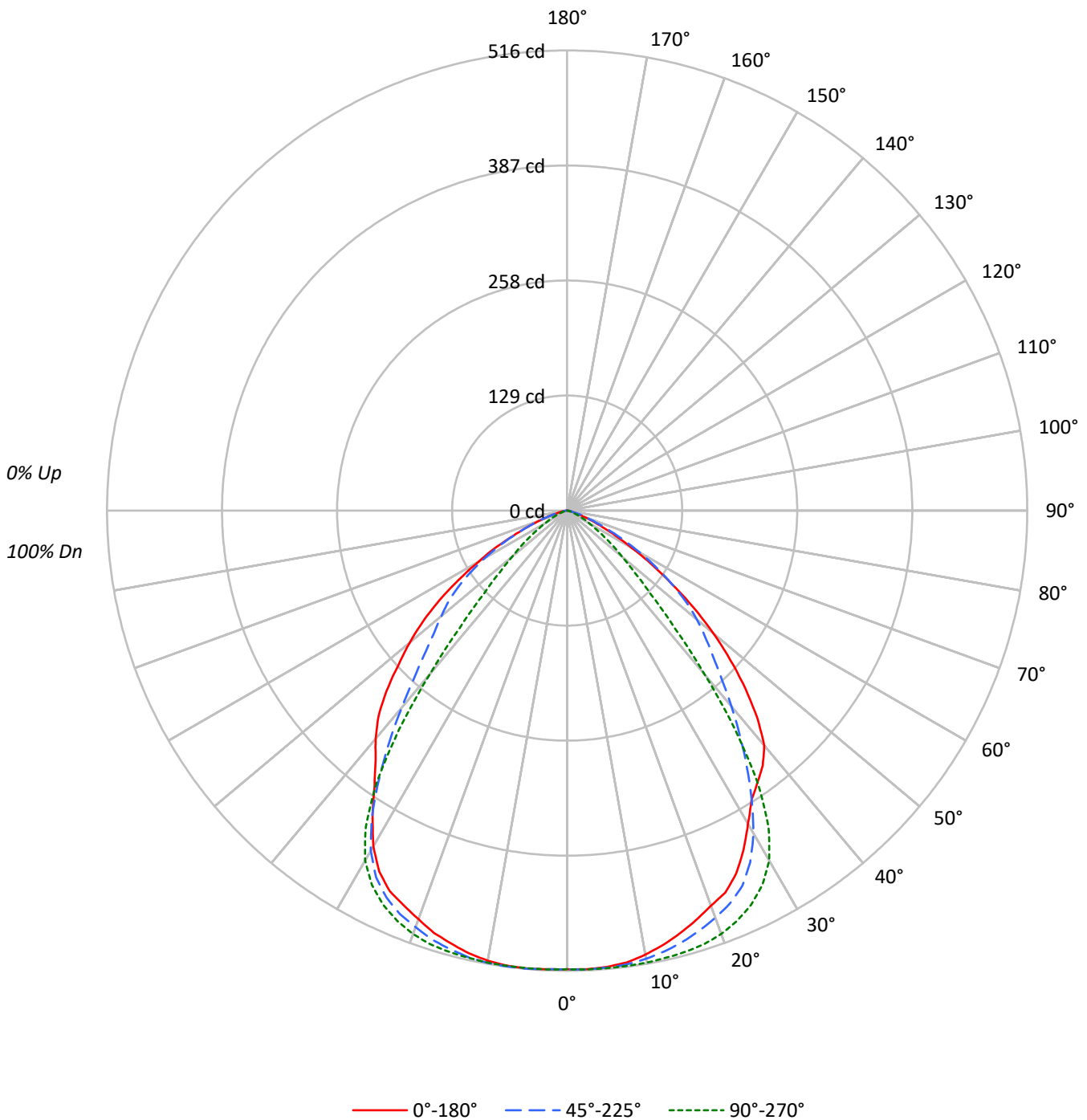
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P246216

CATALOG NUMBER: LSR8B10D010 EC8B10935 8LBDW0MW

Luminous Intensity Polar Plot





TEST NUMBER: P246216

CATALOG NUMBER: LSR8B10D010 EC8B10935 8LBDW0MW

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	51	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°	15862	15862	15862
5°	15898	15941	15957
10°	15831	16116	16047
15°	15656	16352	16045
20°	15469	16582	16001
25°	15267	16600	16019
30°	14442	16133	15475
35°	14011	14022	14169
40°	13839	9649	13449
45°	12333	5791	12498
50°	10252	3857	11048
55°	7688	2656	9365
60°	5211	1770	7068
65°	3145	1146	4852
70°	1740	622	2984
75°	786	262	1549
80°	693	302	1083
85°	778	389	1061



TEST NUMBER: P246216

CATALOG NUMBER: LSR8B10D010 EC8B10935 8LBDW0MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.1	5.0
10°-20°	142.6	14.6
20°-30°	216.4	22.2
30°-40°	227.3	23.3
40°-50°	170.4	17.5
50°-60°	109.3	11.2
60°-70°	46.8	4.8
70°-80°	11.1	1.1
80°-90°	2.1	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°	408.1	41.9
0°-40°	635.4	65.2
0°-60°	915.1	93.9
0°-90°	975.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	975.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	514	514	514	514	514	
5°	514	514	515	516	516	49
15°	490	501	512	509	503	138
25°	449	464	488	479	471	205
35°	372	352	372	368	376	234
45°	283	231	133	224	287	217
55°	143	143	49	149	174	130
65°	43	51	16	65	66	46
75°	7	8	2	13	13	10
85°	2	1	1	2	3	2
90°	0	0	0	0	0	



TEST NUMBER: P246216

CATALOG NUMBER: LSR8B10D010 EC8B10935 8LBDW0MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4
2.5°	514.7	515.3	515.0	515.0	514.7	515.0	515.0	515.5	515.5	515.0	514.7
5°	513.6	514.2	514.2	513.6	513.6	515.0	514.2	514.7	514.7	514.4	514.4
7.5°	511.1	511.1	512.2	511.4	511.4	512.2	511.9	512.5	513.1	513.3	513.3
10°	505.6	506.1	506.4	506.4	506.7	507.5	508.1	509.2	509.7	510.3	510.6
12.5°	498.7	499.5	499.8	499.5	500.3	501.5	502.8	504.2	505.0	506.1	507.0
15°	490.4	490.4	491.0	491.8	492.3	494.0	495.4	497.0	499.2	500.6	502.0
17.5°	481.3	481.8	482.7	482.7	483.8	486.5	487.4	489.9	492.3	493.7	496.5
20°	471.4	471.9	472.7	473.3	474.7	476.9	478.5	480.7	483.5	486.0	488.7
22.5°	463.6	462.5	463.1	463.6	465.0	466.9	468.9	471.6	474.4	476.9	479.6
25°	448.7	449.0	449.8	450.4	452.0	453.7	455.9	459.2	461.7	464.5	467.5
27.5°	428.6	428.8	430.2	430.2	431.6	434.4	435.7	438.5	441.8	444.6	448.2
30°	405.6	406.2	406.2	407.3	408.1	409.5	410.9	413.6	415.3	417.8	422.8
32.5°	384.7	385.2	384.9	384.7	383.8	383.5	383.3	383.8	384.4	385.2	387.1
35°	372.2	370.8	369.7	367.8	365.6	362.8	360.3	357.0	354.0	351.5	348.8
37.5°	360.3	360.1	358.4	355.7	351.2	346.3	340.5	333.3	326.1	318.4	310.9
40°	343.8	343.0	341.6	337.7	332.7	326.7	318.9	310.1	298.5	286.6	274.5
42.5°	315.6	315.9	314.2	311.2	306.5	300.7	292.7	283.0	270.6	256.5	240.8
45°	282.8	282.8	282.2	279.7	276.4	271.7	265.6	257.6	245.5	231.1	214.3
47.5°	248.5	248.8	248.0	247.4	246.0	243.0	238.6	232.5	223.9	210.1	193.3
50°	213.7	213.7	215.1	214.8	214.8	213.7	211.8	208.2	200.7	189.7	174.0
52.5°	178.9	179.5	180.3	181.4	182.8	185.0	182.8	181.1	176.4	167.9	154.4
55°	143.0	143.6	145.0	146.9	148.6	150.8	151.3	151.3	148.8	143.0	132.8
57.5°	112.4	111.6	112.7	114.3	116.5	118.7	120.4	122.3	122.0	118.2	109.9
60°	84.5	84.8	85.6	87.3	88.9	90.8	93.1	94.7	95.5	93.6	88.4
62.5°	61.6	61.6	62.7	64.3	65.2	67.9	69.3	70.1	71.0	70.7	67.4
65°	43.1	43.6	44.2	45.0	45.8	47.5	48.3	50.0	50.5	50.8	48.3
67.5°	30.4	29.5	30.1	30.6	31.5	32.6	34.2	34.2	35.1	35.1	33.4
70°	19.3	19.3	19.6	20.4	21.0	21.3	21.8	22.4	23.2	22.9	22.9
72.5°	13.0	12.7	13.0	13.3	13.5	14.4	14.4	14.6	15.2	15.5	14.4
75°	6.6	6.9	7.5	7.2	8.0	7.5	7.7	8.6	8.3	7.7	7.7
77.5°	5.5	5.5	5.5	5.2	5.8	5.8	5.5	6.1	5.8	5.8	5.5
80°	3.9	4.1	3.9	3.6	3.9	3.6	3.6	3.6	3.6	3.6	3.3
82.5°	3.0	2.5	2.8	2.5	2.8	2.8	2.5	2.2	2.2	2.5	2.2
85°	2.2	1.7	1.9	1.9	1.7	1.7	1.7	1.7	1.7	1.4	1.4
87.5°	1.4	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: P246216

CATALOG NUMBER: LSR8B10D010 EC8B10935 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4
2.5°	515.3	515.0	515.5	515.3	515.3	515.0	515.3	515.0	515.5	514.4	514.7
5°	515.3	514.7	515.0	515.3	515.5	515.0	515.0	515.0	515.5	515.0	515.3
7.5°	514.2	513.9	514.7	515.3	515.0	514.7	515.3	515.0	515.5	515.3	515.8
10°	511.9	512.2	512.8	513.6	513.9	514.2	514.7	514.7	515.5	514.4	515.0
12.5°	508.6	509.7	511.1	511.7	512.8	512.8	513.3	513.6	514.2	513.9	514.7
15°	504.5	505.9	507.5	508.9	510.3	511.1	511.9	512.2	513.1	512.2	512.5
17.5°	499.5	501.2	503.7	505.3	507.5	508.4	509.5	510.0	510.8	510.3	510.6
20°	492.6	494.6	497.3	499.8	501.2	503.1	504.5	505.3	505.9	505.3	505.6
22.5°	483.0	485.7	489.3	491.2	494.0	495.7	495.9	497.9	499.2	497.9	498.4
25°	471.6	474.4	477.2	481.3	483.8	485.7	487.6	487.9	489.3	489.0	488.7
27.5°	452.9	456.4	461.1	464.5	467.8	470.8	473.0	473.6	474.9	474.4	474.7
30°	427.2	431.0	435.5	440.7	445.4	448.4	451.2	453.1	454.5	453.7	453.4
32.5°	390.7	394.6	399.3	404.5	410.1	414.5	417.8	420.3	421.9	421.4	420.0
35°	349.0	350.1	353.2	357.3	362.0	366.7	369.7	372.5	374.4	375.0	375.0
37.5°	306.2	302.6	300.4	300.4	303.2	305.1	307.9	309.5	312.6	313.7	314.5
40°	264.8	256.5	248.8	243.0	239.1	238.9	238.9	239.7	242.4	246.0	249.3
42.5°	227.8	214.6	202.7	191.9	184.2	179.8	177.8	178.1	180.3	183.6	189.1
45°	198.3	181.7	166.8	153.8	143.3	136.4	133.1	132.8	134.5	138.3	144.4
47.5°	175.3	157.7	140.8	125.9	114.6	107.1	103.3	102.2	103.3	106.9	114.0
50°	156.3	138.1	120.7	105.2	93.1	85.3	81.7	80.4	81.7	84.8	91.9
52.5°	138.6	119.8	103.5	88.6	75.7	69.0	65.2	64.3	65.2	68.8	74.6
55°	118.2	102.2	86.2	71.2	59.9	53.3	50.3	49.4	50.3	53.6	59.6
57.5°	98.0	84.2	70.1	56.6	46.9	41.1	38.4	37.3	39.2	41.4	48.6
60°	79.2	68.2	56.3	44.5	36.5	31.2	29.0	28.7	29.3	32.0	37.0
62.5°	62.1	53.0	43.6	34.0	27.3	25.1	22.4	22.1	22.6	24.3	28.2
65°	44.7	38.9	31.8	24.9	19.6	16.6	15.5	15.7	16.3	17.4	21.0
67.5°	31.2	27.1	22.1	17.4	13.5	12.1	11.0	10.8	11.0	13.0	14.9
70°	21.0	18.5	14.9	13.3	9.4	7.5	7.7	6.9	8.0	8.0	9.7
72.5°	13.8	12.1	9.9	7.7	6.6	5.2	5.2	5.0	5.5	5.8	7.2
75°	7.2	5.5	5.5	3.9	2.8	1.4	2.5	2.2	1.9	2.2	2.8
77.5°	5.0	4.1	3.9	3.0	2.8	2.2	2.2	2.2	2.2	2.5	2.8
80°	3.0	3.0	2.2	1.9	1.7	1.4	1.7	1.7	1.7	1.7	1.9
82.5°	1.9	1.7	1.7	1.4	1.4	1.1	1.1	1.1	1.1	1.1	1.7
85°	1.7	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	0.3	0.6	0.8	0.8	1.4	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: P246216

CATALOG NUMBER: LSR8B10D010 EC8B10935 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4
2.5°	515.3	515.5	515.5	515.3	515.3	514.7	515.8	515.0	515.3	516.4	515.5
5°	515.8	516.1	516.1	515.8	515.8	515.8	516.1	516.1	515.8	515.5	516.1
7.5°	516.9	516.6	516.6	516.1	516.1	515.5	516.1	515.3	515.8	515.3	516.1
10°	515.5	515.8	515.5	515.3	515.3	515.0	515.0	514.2	514.4	513.6	514.2
12.5°	514.7	514.4	514.4	513.9	513.3	512.8	512.5	511.7	511.7	509.7	510.6
15°	512.5	512.8	511.9	510.8	510.3	508.9	508.4	507.2	506.1	504.8	505.0
17.5°	510.6	509.7	508.6	507.5	505.3	504.2	503.1	501.5	500.9	499.2	498.7
20°	504.8	504.2	502.8	500.9	499.5	497.0	495.9	494.3	492.9	491.2	490.4
22.5°	497.3	496.8	495.1	493.2	491.0	489.9	488.7	485.7	484.3	482.7	482.4
25°	487.9	487.1	485.4	483.2	482.1	479.1	478.0	475.8	475.2	473.6	473.3
27.5°	473.6	472.5	470.5	467.8	465.8	463.9	462.8	461.1	460.6	458.9	458.7
30°	452.0	450.6	446.8	445.7	442.4	440.4	440.4	438.2	438.5	437.4	437.4
32.5°	418.1	415.9	412.8	410.6	408.4	407.3	407.3	406.5	407.0	407.0	407.6
35°	373.1	370.0	368.4	367.0	367.0	368.1	371.4	372.2	373.9	375.3	376.4
37.5°	315.3	315.1	317.0	318.7	322.8	327.5	333.3	338.3	343.0	346.3	349.6
40°	252.9	259.8	265.4	273.1	279.4	288.6	299.0	307.6	315.6	321.4	327.5
42.5°	197.4	206.3	217.9	229.2	240.5	252.9	266.7	278.6	289.1	297.1	303.5
45°	153.8	166.0	180.0	194.4	209.0	224.5	238.9	251.0	262.0	270.3	276.7
47.5°	124.0	137.2	153.2	169.0	185.6	201.8	217.9	228.4	237.5	244.1	249.9
50°	102.4	116.5	133.4	151.3	167.9	184.2	198.0	208.2	215.7	221.5	225.0
52.5°	85.6	100.5	118.5	136.4	153.0	167.9	180.3	188.0	194.1	198.3	201.6
55°	70.7	85.1	101.9	118.7	135.0	149.1	159.3	165.1	169.8	172.3	174.2
57.5°	57.7	71.0	86.4	101.9	116.0	127.6	135.6	141.4	143.6	145.5	145.2
60°	45.3	57.7	71.8	85.1	97.2	106.6	112.4	115.7	117.4	118.2	117.6
62.5°	35.6	46.9	57.7	69.3	78.1	86.2	91.7	91.7	92.5	92.8	93.6
65°	26.5	35.1	44.5	53.0	60.2	65.4	68.5	69.3	70.4	70.1	69.6
67.5°	19.6	26.0	32.9	39.2	44.2	47.5	49.7	51.6	51.4	50.8	50.5
70°	13.5	17.7	23.7	27.6	31.2	34.5	35.1	35.3	35.6	35.9	35.3
72.5°	9.4	12.4	15.7	19.1	21.3	22.6	24.0	24.3	24.3	24.3	24.0
75°	4.7	6.4	9.4	10.8	12.7	13.3	14.4	14.4	15.2	14.1	13.8
77.5°	4.1	5.0	6.6	7.7	8.6	9.4	9.7	10.5	10.2	9.7	9.9
80°	2.5	3.0	4.1	4.7	5.8	6.1	6.4	6.6	6.4	6.6	6.6
82.5°	1.9	2.2	2.8	2.8	3.6	3.6	3.9	3.9	4.1	4.1	4.1
85°	1.1	1.9	1.7	3.3	2.2	2.2	2.8	3.3	2.8	2.8	3.3
87.5°	1.1	1.1	0.8	1.1	1.1	1.1	1.4	1.7	1.7	1.9	1.7
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: P246216

CATALOG NUMBER: LSR8B10D010 EC8B10935 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	514.4	514.4	514.4	514.4
2.5°	515.3	515.8	515.0	514.7
5°	516.1	516.1	515.5	515.5
7.5°	516.1	516.1	515.3	514.7
10°	513.9	513.9	513.1	512.5
12.5°	509.7	509.7	509.5	508.6
15°	504.5	504.5	503.4	502.6
17.5°	497.3	497.9	496.5	496.5
20°	489.6	489.3	488.2	487.6
22.5°	481.6	481.0	480.7	479.1
25°	473.0	472.5	471.6	470.8
27.5°	458.4	458.1	457.3	456.2
30°	436.0	435.7	434.6	434.6
32.5°	407.0	406.7	405.6	405.9
35°	376.9	378.0	377.5	376.4
37.5°	351.8	352.6	353.2	352.6
40°	330.8	333.3	333.6	334.1
42.5°	308.4	311.7	312.9	313.4
45°	281.6	284.7	287.2	286.6
47.5°	254.3	256.5	258.7	257.1
50°	228.1	229.5	230.3	230.3
52.5°	203.2	203.2	203.0	203.2
55°	174.8	174.8	173.7	174.2
57.5°	145.0	145.5	144.7	143.3
60°	117.4	116.0	115.4	114.6
62.5°	91.4	91.4	89.5	91.9
65°	68.5	67.7	66.8	66.5
67.5°	49.7	49.4	48.6	48.3
70°	35.1	34.0	33.7	33.1
72.5°	23.5	23.5	22.9	22.9
75°	14.4	13.0	12.7	13.0
77.5°	9.9	9.7	9.7	9.4
80°	6.6	6.4	6.9	6.1
82.5°	4.1	4.4	4.1	4.4
85°	2.8	3.3	3.0	3.0
87.5°	1.7	1.7	1.7	1.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)