

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: P245460

Luminaire Tested: **LSR8B10D010 EC8B10830 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245460
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: LSR8B10D010 EC8B10830 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1120.0 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

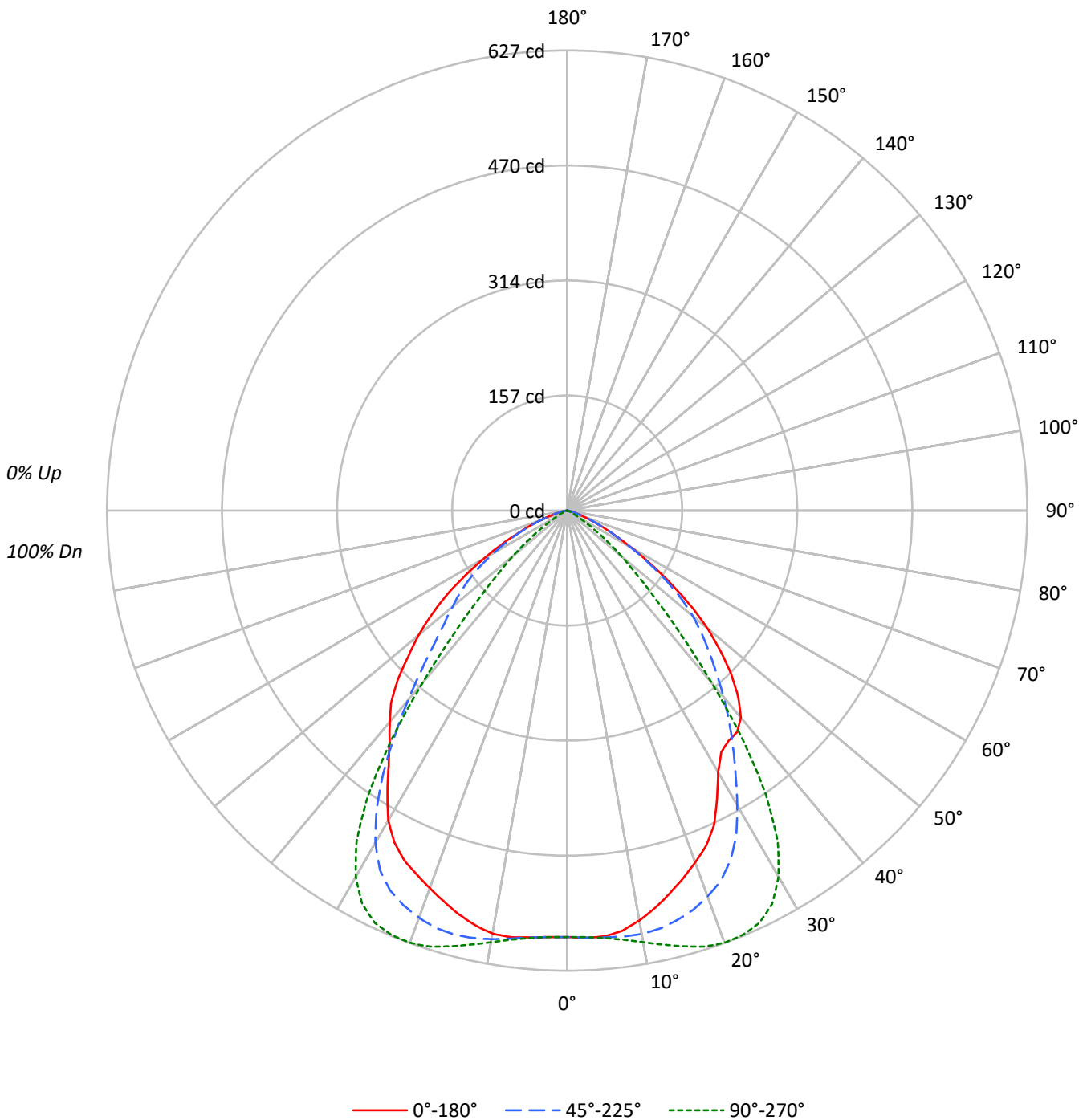
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P245460

CATALOG NUMBER: LSR8B10D010 EC8B10830 8LBDW0WH

Luminous Intensity Polar Plot





TEST NUMBER: P245460

CATALOG NUMBER: LSR8B10D010 EC8B10830 8LBDW0WH

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°	17916	17916	17916
5°	18025	18090	18071
10°	17757	18696	18327
15°	17239	19621	18184
20°	16739	20565	17963
25°	16097	21092	17880
30°	14649	20513	17351
35°	14429	17776	15961
40°	14822	12326	15131
45°	13798	7448	14230
50°	11969	4601	12679
55°	9182	2403	10758
60°	6260	968	8122
65°	3896	496	5604
70°	2110	307	3417
75°	1108	143	2025
80°	497	160	1101
85°	318	106	991



TEST NUMBER: P245460

CATALOG NUMBER: LSR8B10D010 EC8B10830 8LBDW0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.9	5.0
10°-20°	165.5	14.8
20°-30°	252.5	22.5
30°-40°	263.5	23.5
40°-50°	197.9	17.7
50°-60°	121.8	10.9
60°-70°	49.6	4.4
70°-80°	11.7	1.0
80°-90°	1.6	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°	473.9	42.3
0°-40°	737.4	65.8
0°-60°	1057.2	94.4
0°-90°	1120.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1120.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	581	581	581	581	581	
5°	582	584	584	584	584	55
15°	540	578	615	598	570	152
25°	473	526	620	571	526	215
35°	383	394	472	436	424	242
45°	316	274	171	255	326	241
55°	171	162	45	162	200	154
65°	53	54	7	72	77	56
75°	9	9	1	16	17	11
85°	1	1	0	2	3	1
90°	0	0	0	0	0	



TEST NUMBER: P245460

CATALOG NUMBER: LSR8B10D010 EC8B10830 8LBDW0WH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
2.5°	582.6	581.6	582.6	582.6	582.9	582.3	582.6	582.9	582.3	582.3	582.3
5°	582.3	581.6	582.3	581.9	582.6	582.6	583.2	583.2	583.8	583.8	584.7
7.5°	577.3	576.1	577.3	578.2	578.9	580.1	581.6	582.9	584.1	585.3	586.9
10°	567.1	567.1	568.1	569.9	571.8	573.9	576.7	579.8	582.9	585.6	588.4
12.5°	554.5	553.6	555.4	557.9	560.7	564.1	568.4	573.0	577.9	583.5	587.8
15°	540.0	539.1	541.2	543.7	547.1	552.0	557.3	563.4	570.5	577.9	585.0
17.5°	525.2	524.9	527.0	530.4	533.2	538.5	545.2	552.6	560.7	570.5	579.8
20°	510.1	509.8	511.9	514.7	518.4	523.4	530.1	538.8	548.3	559.4	570.2
22.5°	494.4	494.7	496.5	499.6	502.7	507.9	515.0	523.7	534.1	546.2	558.2
25°	473.1	471.5	474.0	477.1	482.3	486.6	493.4	502.7	513.5	526.1	540.3
27.5°	442.2	441.9	444.1	446.9	451.5	456.7	464.1	473.7	485.1	499.0	512.9
30°	411.4	412.0	412.9	415.7	418.8	424.0	431.4	439.5	450.3	463.5	478.3
32.5°	390.4	390.4	391.7	393.5	395.7	398.4	403.7	409.5	417.9	427.1	437.9
35°	383.3	382.1	383.3	383.6	384.0	384.6	385.5	387.3	390.1	394.1	398.1
37.5°	380.3	379.3	379.3	378.1	376.6	374.7	372.2	369.5	366.4	362.4	359.3
40°	368.2	367.6	367.0	365.8	362.4	358.7	354.7	348.2	341.1	331.2	321.4
42.5°	345.1	344.5	344.2	341.7	338.6	334.3	329.7	322.9	313.9	301.3	287.1
45°	316.4	315.2	314.3	312.1	309.9	306.2	301.9	295.7	286.8	273.9	256.9
47.5°	283.1	282.5	282.2	281.3	279.1	276.9	274.2	269.2	261.2	248.9	231.3
50°	249.5	248.3	248.9	248.6	247.6	246.1	244.2	240.9	234.7	223.6	207.6
52.5°	210.9	210.9	210.6	211.6	211.9	211.6	211.9	208.2	202.9	194.6	181.0
55°	170.8	170.8	171.8	173.0	174.2	174.6	174.2	172.7	169.0	162.2	150.2
57.5°	133.2	132.6	134.5	136.3	137.5	138.8	137.8	136.6	134.5	128.9	119.7
60°	101.5	101.5	102.7	103.9	105.2	106.4	106.1	105.8	103.9	100.2	92.8
62.5°	74.6	74.9	74.9	75.9	77.1	78.3	79.3	78.3	77.4	74.9	70.0
65°	53.4	53.0	53.4	54.3	55.2	56.4	57.1	56.7	55.8	54.0	50.3
67.5°	35.8	35.5	36.7	37.0	37.6	38.9	38.6	38.9	38.6	37.0	33.9
70°	23.4	22.8	23.4	23.1	24.1	24.4	25.0	25.3	25.0	24.1	23.1
72.5°	14.5	14.2	14.5	14.8	15.1	15.4	16.0	16.0	15.7	15.1	13.9
75°	9.3	8.3	8.6	8.0	8.6	8.6	9.3	9.6	9.3	9.3	8.6
77.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.9	6.2	5.6	5.2
80°	2.8	2.8	3.1	3.1	3.1	3.4	3.1	3.1	3.1	3.4	2.5
82.5°	2.2	1.8	1.8	1.8	2.2	1.8	1.8	1.8	1.8	1.8	1.8
85°	0.9	1.2	0.9	0.6	0.9	0.9	1.2	0.9	0.9	0.9	1.2
87.5°	0.3	0.3	0.0	0.0	0.0	0.3	0.0	0.3	0.3	0.6	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: P245460

CATALOG NUMBER: LSR8B10D010 EC8B10830 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
2.5°	582.6	581.9	581.9	581.6	582.3	581.6	581.9	581.6	581.6	582.3	581.6
5°	584.7	585.0	584.4	584.1	585.0	585.0	585.0	584.4	584.4	584.7	584.4
7.5°	587.8	588.4	588.7	589.0	589.7	590.0	590.0	589.7	589.3	590.3	589.0
10°	591.2	592.1	594.0	594.9	596.4	596.4	597.1	597.1	596.4	597.1	596.7
12.5°	590.0	595.5	598.6	600.8	602.9	604.8	605.4	605.7	605.4	606.6	605.4
15°	592.1	596.7	601.7	605.4	609.4	611.5	612.2	614.6	615.3	615.6	613.7
17.5°	588.7	597.1	602.3	607.8	613.7	617.7	621.4	623.0	623.3	623.9	621.4
20°	581.0	590.3	598.3	606.3	613.1	619.3	622.3	626.7	625.4	627.9	624.5
22.5°	570.5	581.0	591.2	601.7	608.8	616.2	622.7	625.7	627.3	627.3	623.6
25°	553.9	566.2	577.3	588.1	598.9	607.8	615.3	619.9	620.8	620.5	616.2
27.5°	528.0	541.2	554.2	566.5	579.8	590.3	598.9	604.5	606.0	606.0	601.4
30°	492.2	506.4	519.0	533.8	547.4	559.1	571.2	576.1	578.9	578.9	573.6
32.5°	449.6	461.7	473.4	487.9	502.7	515.9	527.4	534.1	537.5	537.2	532.6
35°	403.4	409.2	418.2	429.0	442.2	454.6	465.7	472.2	478.0	477.7	473.4
37.5°	357.1	355.6	356.5	360.5	368.8	377.5	386.1	392.3	397.2	399.4	398.4
40°	311.8	303.8	296.1	293.3	293.9	297.0	301.6	306.2	311.8	314.6	315.8
42.5°	271.1	257.5	243.9	233.8	227.9	226.1	228.2	229.8	233.1	237.2	241.2
45°	238.4	220.2	202.3	186.6	176.7	170.8	169.6	170.8	172.7	176.7	182.0
47.5°	211.6	190.3	170.2	152.7	138.2	130.5	128.3	127.7	129.5	133.2	140.3
50°	187.8	166.5	144.3	124.0	108.9	100.2	97.1	95.9	98.1	100.8	107.3
52.5°	161.9	140.9	118.1	98.4	82.7	73.7	70.3	68.5	69.7	73.4	79.9
55°	133.8	114.4	93.8	73.4	58.3	50.0	45.9	44.7	45.9	50.0	56.4
57.5°	105.8	89.4	72.2	53.0	39.5	31.1	27.1	25.9	29.3	30.8	37.6
60°	82.7	69.4	54.6	38.9	27.1	20.7	16.7	15.7	17.3	20.0	25.6
62.5°	62.0	53.7	41.9	27.8	20.0	13.3	11.1	10.2	11.1	13.3	17.6
65°	45.0	38.6	29.3	20.4	13.6	9.9	7.4	6.8	7.7	9.3	13.0
67.5°	30.8	25.9	20.4	14.2	9.3	6.2	5.2	5.2	5.6	6.8	9.6
70°	20.0	17.0	13.0	9.3	6.2	4.6	4.0	3.4	4.0	4.9	6.5
72.5°	12.6	10.8	8.3	6.5	4.6	3.4	2.8	2.5	3.1	3.7	4.9
75°	7.7	5.9	4.3	3.4	2.5	2.5	2.5	1.2	1.5	2.5	3.1
77.5°	4.6	4.0	3.4	2.8	2.2	1.2	1.2	1.2	1.5	1.8	2.8
80°	2.5	2.2	1.5	1.5	1.2	0.9	1.2	0.9	0.6	1.5	1.8
82.5°	1.5	1.2	1.2	1.2	1.5	0.6	0.9	0.6	0.9	1.2	0.9
85°	0.9	0.9	0.9	0.6	1.5	0.6	0.6	0.3	0.3	0.6	0.6
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: P245460

CATALOG NUMBER: LSR8B10D010 EC8B10830 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
2.5°	581.9	581.6	581.9	581.6	581.6	581.6	581.9	581.9	581.6	581.6	582.3
5°	584.4	584.4	584.4	584.1	583.8	583.8	584.4	584.4	583.5	584.4	584.4
7.5°	589.7	588.7	589.7	588.4	587.8	588.1	588.4	587.8	587.2	587.5	587.5
10°	596.4	595.5	595.5	594.6	593.7	593.0	592.4	590.9	589.3	589.0	587.8
12.5°	604.5	602.9	602.0	600.1	598.6	596.4	594.6	592.1	589.0	586.9	584.7
15°	612.5	610.0	607.8	604.8	601.4	597.7	593.7	589.7	584.7	580.4	576.7
17.5°	619.0	615.6	611.5	606.6	601.7	596.1	590.3	584.4	577.3	571.8	567.4
20°	621.1	616.2	610.9	604.5	598.0	590.3	582.9	575.2	567.1	561.3	556.3
22.5°	618.3	612.5	606.0	599.2	590.6	582.3	573.6	564.7	557.6	549.6	544.9
25°	610.6	603.5	596.4	588.4	580.1	570.8	561.6	552.3	543.7	539.4	533.5
27.5°	594.9	587.2	579.5	571.2	561.6	552.3	542.8	533.8	526.4	520.6	517.2
30°	567.1	558.2	549.3	540.3	532.0	522.4	513.5	506.1	498.7	494.0	490.7
32.5°	524.6	516.6	507.6	499.0	491.3	483.3	475.9	469.4	464.1	461.1	458.6
35°	467.2	459.2	452.4	446.3	439.8	436.4	431.8	428.1	425.9	424.7	424.4
37.5°	395.1	390.4	388.3	387.0	385.8	384.9	385.5	387.0	388.3	390.4	392.9
40°	318.0	322.0	323.2	327.5	331.5	336.8	342.6	349.4	355.0	362.1	367.0
42.5°	247.6	255.0	263.7	272.9	282.8	292.4	304.1	314.9	324.7	333.7	341.4
45°	190.3	201.7	214.6	227.9	241.2	255.0	269.2	282.5	294.2	303.8	311.8
47.5°	148.3	161.0	177.6	194.0	210.0	226.4	242.1	256.0	265.8	275.1	282.2
50°	117.5	132.0	150.2	169.0	186.6	203.8	220.5	233.5	243.3	250.7	256.0
52.5°	91.0	108.2	126.7	146.5	165.3	184.1	199.5	211.6	219.6	226.1	230.1
55°	67.8	84.8	104.5	124.9	144.0	162.2	176.7	187.2	194.3	198.0	200.1
57.5°	49.0	64.5	84.2	104.5	121.8	139.1	150.8	160.4	164.4	166.5	167.5
60°	35.8	50.0	67.5	85.1	101.5	115.3	125.5	132.0	135.1	136.3	136.0
62.5°	26.2	38.6	53.7	68.5	81.7	93.1	101.2	105.5	107.0	107.6	106.7
65°	20.0	29.6	42.6	54.0	64.1	72.5	78.3	81.1	82.0	81.7	81.1
67.5°	14.8	22.2	31.8	40.4	47.8	54.3	57.4	59.8	60.4	59.5	58.6
70°	10.5	16.3	23.1	29.0	34.5	38.2	41.6	41.9	41.9	41.6	41.0
72.5°	7.4	11.4	15.7	19.7	23.1	25.9	27.1	28.1	27.8	27.4	26.8
75°	4.9	7.1	11.4	12.3	15.4	16.3	17.6	17.6	17.9	17.0	17.0
77.5°	3.1	4.9	6.8	8.0	9.3	10.5	11.1	11.1	11.4	11.1	11.1
80°	1.8	3.1	3.7	5.6	5.6	6.5	6.8	7.1	6.5	7.4	6.5
82.5°	1.2	1.8	2.8	2.8	3.4	4.0	4.0	4.3	4.3	4.0	4.0
85°	0.9	1.2	1.5	1.8	1.8	2.2	1.8	1.8	2.2	2.5	2.2
87.5°	0.3	0.6	0.3	0.6	0.6	1.2	0.9	0.9	0.9	1.2	1.2
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: P245460

CATALOG NUMBER: LSR8B10D010 EC8B10830 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	581.0	581.0	581.0	581.0
2.5°	581.6	581.9	581.6	581.6
5°	584.4	584.1	584.4	583.8
7.5°	586.6	586.6	586.3	586.3
10°	586.6	585.3	585.3	585.3
12.5°	581.9	580.4	579.5	578.9
15°	573.9	571.2	569.9	569.6
17.5°	563.4	561.0	559.4	558.5
20°	551.4	548.9	547.1	547.4
22.5°	540.9	538.2	536.9	536.3
25°	530.4	527.0	526.1	525.5
27.5°	513.5	511.6	510.7	509.8
30°	487.6	486.6	485.1	487.3
32.5°	457.7	456.1	454.9	455.8
35°	424.7	423.7	424.7	424.0
37.5°	394.4	395.4	396.6	397.2
40°	370.7	374.1	375.3	375.9
42.5°	346.9	351.0	353.4	355.0
45°	317.6	321.7	324.4	326.3
47.5°	287.4	290.8	293.6	293.3
50°	260.0	261.8	263.1	264.3
52.5°	232.2	232.2	232.5	232.5
55°	200.8	200.1	199.8	200.1
57.5°	166.2	165.6	165.3	164.4
60°	134.8	132.9	131.7	131.7
62.5°	105.5	103.3	102.4	102.1
65°	79.3	78.9	77.1	76.8
67.5°	57.4	56.1	54.9	55.2
70°	40.4	38.6	38.6	37.9
72.5°	26.2	25.3	25.0	25.0
75°	16.3	16.3	15.7	17.0
77.5°	10.8	10.8	10.5	10.8
80°	6.5	6.5	6.5	6.2
82.5°	4.0	4.3	4.0	4.0
85°	2.2	2.5	1.8	2.8
87.5°	1.2	1.5	1.2	1.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)