

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: P246114

Luminaire Tested: **LSR8B10D010 EC8B10835 8LBDW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246114  
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 EC8B10835 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: 1023.0 lumens  
Efficiency: N/A  
Efficacy: 100.3 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

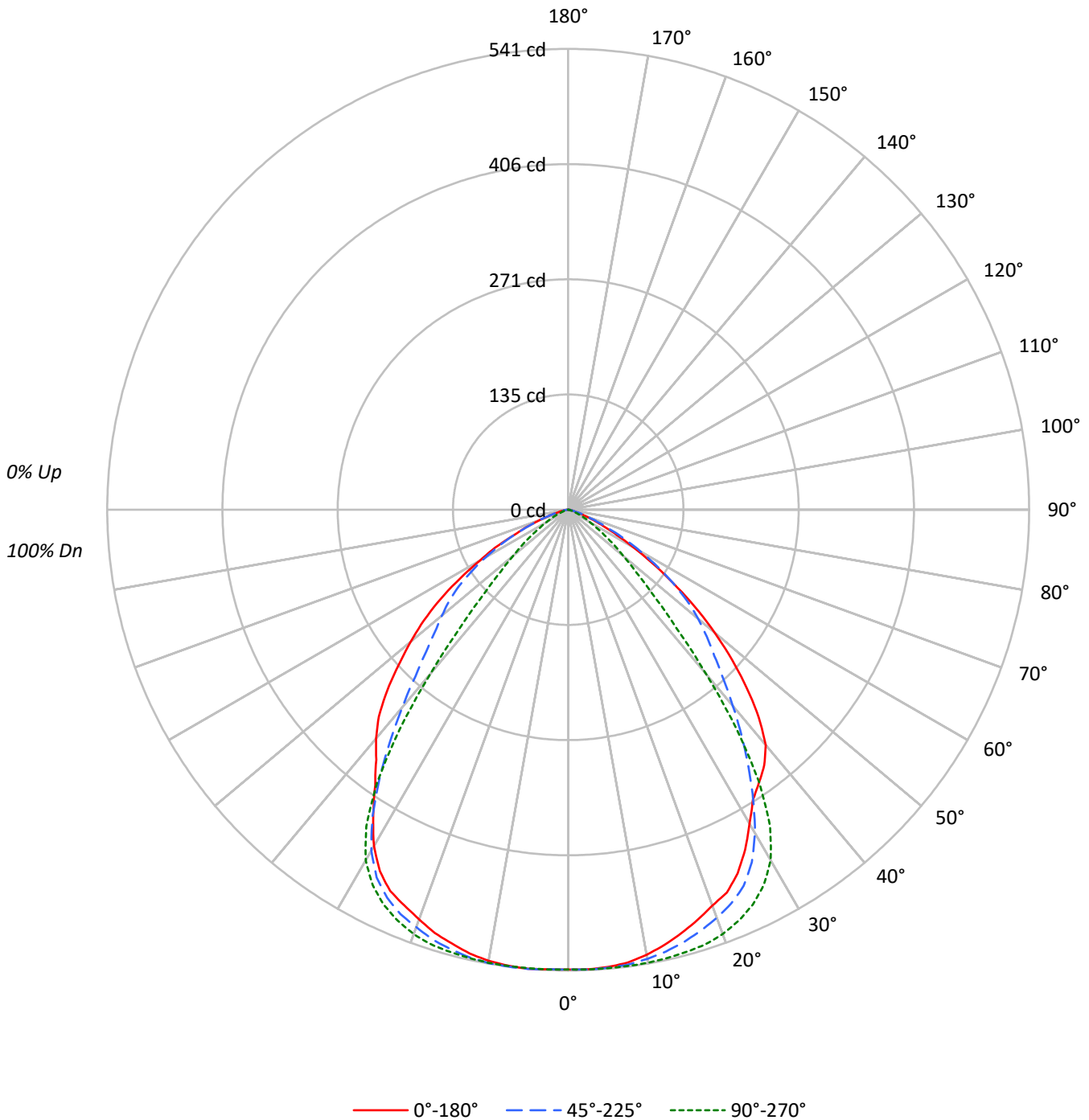
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P246114

CATALOG NUMBER: LSR8B10D010 EC8B10835 8LBDW0B

### Luminous Intensity Polar Plot





TEST NUMBER: P246114

CATALOG NUMBER: LSR8B10D010 EC8B10835 8LBDW0B

**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°	16645	16645	16645
5°	16681	16725	16743
10°	16611	16908	16836
15°	16425	17156	16834
20°	16230	17399	16792
25°	16019	17417	16808
30°	15154	16927	16237
35°	14704	14711	14866
40°	14520	10124	14113
45°	12939	6079	13113
50°	10755	4044	11590
55°	8070	2790	9828
60°	5470	1856	7413
65°	3298	1204	5093
70°	1830	649	3138
75°	834	274	1620
80°	728	302	1137
85°	814	425	1132



TEST NUMBER: P246114

CATALOG NUMBER: LSR8B10D010 EC8B10835 8LBDW0B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.5	5.0
10°-20°	149.6	14.6
20°-30°	227.1	22.2
30°-40°	238.5	23.3
40°-50°	178.8	17.5
50°-60°	114.7	11.2
60°-70°	49.1	4.8
70°-80°	11.6	1.1
80°-90°	2.2	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°	428.2	41.9
0°-40°	666.6	65.2
0°-60°	960.2	93.9
0°-90°	1023.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1023.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	540	540	540	540	540	
5°	539	540	540	541	541	51
15°	514	525	537	534	527	145
25°	471	487	512	503	494	215
35°	391	369	391	386	395	245
45°	297	242	139	236	301	227
55°	150	150	52	156	183	136
65°	45	53	16	69	70	48
75°	7	8	2	14	14	10
85°	2	1	1	2	3	2
90°	0	0	0	0	0	



TEST NUMBER: P246114

CATALOG NUMBER: LSR8B10D010 EC8B10835 8LBDW0B

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	539.8	539.8	539.8	539.8	539.8	539.8	539.8	539.8	539.8	539.8	539.8
2.5°	540.0	540.6	540.3	540.3	540.0	540.3	540.3	540.9	540.9	540.3	540.0
5°	538.9	539.5	539.5	538.9	538.9	540.3	539.5	540.0	540.0	539.8	539.8
7.5°	536.3	536.3	537.4	536.6	536.6	537.4	537.1	537.7	538.3	538.6	538.6
10°	530.5	531.1	531.4	531.4	531.6	532.5	533.1	534.3	534.8	535.4	535.7
12.5°	523.2	524.1	524.4	524.1	525.0	526.1	527.6	529.0	529.9	531.1	531.9
15°	514.5	514.5	515.1	516.0	516.6	518.3	519.8	521.5	523.8	525.3	526.7
17.5°	505.0	505.6	506.4	506.4	507.6	510.5	511.4	514.0	516.6	518.0	520.9
20°	494.6	495.1	496.0	496.6	498.0	500.4	502.1	504.4	507.3	509.9	512.8
22.5°	486.4	485.3	485.9	486.4	487.9	489.9	492.0	494.8	497.7	500.4	503.3
25°	470.8	471.1	472.0	472.5	474.3	476.0	478.3	481.8	484.4	487.3	490.5
27.5°	449.7	449.9	451.4	451.4	452.8	455.7	457.2	460.1	463.6	466.5	470.2
30°	425.6	426.2	426.2	427.3	428.2	429.7	431.1	434.0	435.7	438.4	443.6
32.5°	403.6	404.2	403.9	403.6	402.7	402.4	402.1	402.7	403.3	404.2	406.2
35°	390.6	389.1	387.9	385.9	383.6	380.7	378.1	374.6	371.4	368.8	365.9
37.5°	378.1	377.8	376.1	373.2	368.5	363.3	357.2	349.7	342.2	334.1	326.2
40°	360.7	359.8	358.4	354.3	349.1	342.7	334.6	325.4	313.2	300.7	288.0
42.5°	331.2	331.4	329.7	326.5	321.6	315.5	307.1	297.0	283.9	269.2	252.6
45°	296.7	296.7	296.1	293.5	290.0	285.1	278.7	270.3	257.6	242.5	224.8
47.5°	260.8	261.0	260.2	259.6	258.1	255.0	250.3	243.9	235.0	220.5	202.8
50°	224.2	224.2	225.7	225.4	225.4	224.2	222.2	218.4	210.6	199.0	182.5
52.5°	187.7	188.3	189.2	190.3	191.8	194.1	191.8	190.1	185.1	176.1	162.0
55°	150.1	150.7	152.1	154.1	155.9	158.2	158.8	158.8	156.2	150.1	139.4
57.5°	117.9	117.0	118.2	119.9	122.3	124.6	126.3	128.3	128.1	124.0	115.3
60°	88.7	88.9	89.8	91.6	93.3	95.3	97.6	99.4	100.2	98.2	92.7
62.5°	64.6	64.6	65.8	67.5	68.4	71.3	72.7	73.6	74.5	74.2	70.7
65°	45.2	45.8	46.4	47.2	48.1	49.8	50.7	52.4	53.0	53.3	50.7
67.5°	31.9	31.0	31.6	32.2	33.0	34.2	35.9	35.9	36.8	36.8	35.1
70°	20.3	20.3	20.6	21.4	22.0	22.3	22.9	23.5	24.3	24.0	24.0
72.5°	13.6	13.3	13.6	13.9	14.2	15.1	15.1	15.4	15.9	16.2	15.1
75°	7.0	7.2	7.8	7.5	8.4	7.8	8.1	9.0	8.7	8.1	8.1
77.5°	5.8	5.8	5.8	5.5	6.1	6.1	5.8	6.4	6.1	6.1	5.8
80°	4.1	4.3	4.1	3.8	4.1	3.8	3.8	3.8	3.8	3.8	3.5
82.5°	3.2	2.6	2.9	2.6	2.9	2.9	2.6	2.3	2.3	2.6	2.3
85°	2.3	1.7	2.0	2.0	1.7	1.7	1.7	1.7	1.7	1.4	1.4
87.5°	1.4	0.9	0.9	0.9	1.2	1.2	1.2	0.9	1.2	1.2	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: P246114

CATALOG NUMBER: LSR8B10D010 EC8B10835 8LBDW0B

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	539.8	539.8	539.8	539.8	539.8	539.8	539.8	539.8	539.8	539.8	539.8
2.5°	540.6	540.3	540.9	540.6	540.6	540.3	540.6	540.3	540.9	539.8	540.0
5°	540.6	540.0	540.3	540.6	540.9	540.3	540.3	540.3	540.9	540.3	540.6
7.5°	539.5	539.2	540.0	540.6	540.3	540.0	540.6	540.3	540.9	540.6	541.2
10°	537.1	537.4	538.0	538.9	539.2	539.5	540.0	540.0	540.9	539.8	540.3
12.5°	533.7	534.8	536.3	536.9	538.0	538.0	538.6	538.9	539.5	539.2	540.0
15°	529.3	530.8	532.5	534.0	535.4	536.3	537.1	537.4	538.3	537.4	537.7
17.5°	524.1	525.8	528.5	530.2	532.5	533.4	534.5	535.1	536.0	535.4	535.7
20°	516.9	518.9	521.8	524.4	525.8	527.9	529.3	530.2	530.8	530.2	530.5
22.5°	506.7	509.6	513.4	515.4	518.3	520.1	520.3	522.4	523.8	522.4	523.0
25°	494.8	497.7	500.6	505.0	507.6	509.6	511.7	511.9	513.4	513.1	512.8
27.5°	475.1	478.9	483.8	487.3	490.8	494.0	496.3	496.9	498.3	497.7	498.0
30°	448.2	452.3	456.9	462.4	467.3	470.5	473.4	475.4	476.9	476.0	475.7
32.5°	410.0	414.0	418.9	424.4	430.2	434.9	438.4	441.0	442.7	442.1	440.7
35°	366.2	367.4	370.6	374.9	379.8	384.8	387.9	390.8	392.9	393.4	393.4
37.5°	321.3	317.5	315.2	315.2	318.1	320.1	323.0	324.8	328.0	329.1	330.0
40°	277.8	269.2	261.0	255.0	250.9	250.6	250.6	251.5	254.4	258.1	261.6
42.5°	239.0	225.1	212.7	201.4	193.2	188.6	186.6	186.9	189.2	192.7	198.5
45°	208.0	190.6	175.0	161.4	150.4	143.1	139.6	139.4	141.1	145.1	151.5
47.5°	184.0	165.4	147.8	132.1	120.2	112.4	108.4	107.2	108.4	112.1	119.7
50°	164.0	144.9	126.6	110.4	97.6	89.5	85.8	84.3	85.8	88.9	96.5
52.5°	145.4	125.7	108.6	93.0	79.4	72.4	68.4	67.5	68.4	72.1	78.2
55°	124.0	107.2	90.4	74.7	62.9	55.9	52.7	51.9	52.7	56.2	62.6
57.5°	102.9	88.4	73.6	59.4	49.3	43.2	40.3	39.1	41.1	43.5	51.0
60°	83.1	71.6	59.1	46.6	38.2	32.7	30.4	30.1	30.7	33.6	38.8
62.5°	65.2	55.6	45.8	35.6	28.7	26.4	23.5	23.2	23.8	25.5	29.6
65°	46.9	40.9	33.3	26.1	20.6	17.4	16.2	16.5	17.1	18.3	22.0
67.5°	32.7	28.4	23.2	18.3	14.2	12.7	11.6	11.3	11.6	13.6	15.6
70°	22.0	19.4	15.6	13.9	9.9	7.8	8.1	7.2	8.4	8.4	10.1
72.5°	14.5	12.7	10.4	8.1	7.0	5.5	5.5	5.2	5.8	6.1	7.5
75°	7.5	5.8	5.8	4.1	2.9	1.4	2.6	2.3	2.0	2.3	2.9
77.5°	5.2	4.3	4.1	3.2	2.9	2.3	2.3	2.3	2.3	2.6	2.9
80°	3.2	3.2	2.3	2.0	1.7	1.4	1.7	1.7	1.7	1.7	2.0
82.5°	2.0	1.7	1.7	1.4	1.4	1.2	1.2	1.2	1.2	1.2	1.7
85°	1.7	1.2	1.2	0.9	1.2	2.0	0.9	1.2	1.2	1.2	0.9
87.5°	0.6	0.9	0.9	0.9	0.6	0.3	0.6	0.9	0.9	1.4	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: P246114

CATALOG NUMBER: LSR8B10D010 EC8B10835 8LBDW0B

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	539.8	539.8	539.8	539.8	539.8	539.8	539.8	539.8	539.8	539.8	539.8
2.5°	540.6	540.9	540.9	540.6	540.6	540.0	541.2	540.3	540.6	541.8	540.9
5°	541.2	541.5	541.5	541.2	541.2	541.2	541.5	541.5	541.2	540.9	541.5
7.5°	542.4	542.1	542.1	541.5	541.5	540.9	541.5	540.6	541.2	540.6	541.5
10°	540.9	541.2	540.9	540.6	540.6	540.3	540.3	539.5	539.8	538.9	539.5
12.5°	540.0	539.8	539.8	539.2	538.6	538.0	537.7	536.9	536.9	534.8	535.7
15°	537.7	538.0	537.1	536.0	535.4	534.0	533.4	532.2	531.1	529.6	529.9
17.5°	535.7	534.8	533.7	532.5	530.2	529.0	527.9	526.1	525.6	523.8	523.2
20°	529.6	529.0	527.6	525.6	524.1	521.5	520.3	518.6	517.2	515.4	514.5
22.5°	521.8	521.2	519.5	517.4	515.1	514.0	512.8	509.6	508.2	506.4	506.1
25°	511.9	511.1	509.3	507.0	505.9	502.7	501.5	499.2	498.6	496.9	496.6
27.5°	496.9	495.7	493.7	490.8	488.8	486.7	485.6	483.8	483.3	481.5	481.2
30°	474.3	472.8	468.8	467.6	464.1	462.1	462.1	459.8	460.1	458.9	458.9
32.5°	438.6	436.3	433.1	430.8	428.5	427.3	427.3	426.5	427.1	427.1	427.6
35°	391.4	388.2	386.5	385.0	385.0	386.2	389.7	390.6	392.3	393.7	394.9
37.5°	330.9	330.6	332.6	334.3	338.7	343.6	349.7	354.9	359.8	363.3	366.8
40°	265.4	272.6	278.4	286.5	293.2	302.8	313.8	322.8	331.2	337.2	343.6
42.5°	207.1	216.4	228.6	240.5	252.3	265.4	279.9	292.3	303.3	311.7	318.4
45°	161.4	174.1	188.9	204.0	219.3	235.5	250.6	263.4	274.9	283.6	290.3
47.5°	130.1	144.0	160.8	177.3	194.7	211.8	228.6	239.6	249.2	256.1	262.2
50°	107.5	122.3	139.9	158.8	176.1	193.2	207.7	218.4	226.3	232.4	236.1
52.5°	89.8	105.5	124.3	143.1	160.5	176.1	189.2	197.3	203.7	208.0	211.5
55°	74.2	89.2	106.9	124.6	141.7	156.4	167.2	173.3	178.2	180.8	182.8
57.5°	60.6	74.5	90.7	106.9	121.7	133.9	142.3	148.3	150.7	152.7	152.4
60°	47.5	60.6	75.3	89.2	102.0	111.8	117.9	121.4	123.1	124.0	123.4
62.5°	37.4	49.3	60.6	72.7	82.0	90.4	96.2	96.2	97.1	97.3	98.2
65°	27.8	36.8	46.6	55.6	63.2	68.7	71.9	72.7	73.9	73.6	73.0
67.5°	20.6	27.2	34.5	41.1	46.4	49.8	52.1	54.2	53.9	53.3	53.0
70°	14.2	18.5	24.9	29.0	32.7	36.2	36.8	37.1	37.4	37.7	37.1
72.5°	9.9	13.0	16.5	20.0	22.3	23.8	25.2	25.5	25.5	25.5	25.2
75°	4.9	6.7	9.9	11.3	13.3	13.9	15.1	15.1	15.9	14.8	14.5
77.5°	4.3	5.2	7.0	8.1	9.0	9.9	10.1	11.0	10.7	10.1	10.4
80°	2.6	3.2	4.3	4.9	6.1	6.4	6.7	7.0	6.7	7.0	7.0
82.5°	2.0	2.3	2.9	2.9	3.8	3.8	4.1	4.1	4.3	4.3	4.3
85°	1.2	2.0	1.7	3.5	2.3	2.3	2.9	3.5	2.9	2.9	3.5
87.5°	1.2	1.2	0.9	1.2	1.2	1.2	1.4	1.7	1.7	2.0	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: P246114

CATALOG NUMBER: LSR8B10D010 EC8B10835 8LBDW0B

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	539.8	539.8	539.8	539.8
2.5°	540.6	541.2	540.3	540.0
5°	541.5	541.5	540.9	540.9
7.5°	541.5	541.5	540.6	540.0
10°	539.2	539.2	538.3	537.7
12.5°	534.8	534.8	534.5	533.7
15°	529.3	529.3	528.2	527.3
17.5°	521.8	522.4	520.9	520.9
20°	513.7	513.4	512.2	511.7
22.5°	505.3	504.7	504.4	502.7
25°	496.3	495.7	494.8	494.0
27.5°	480.9	480.7	479.8	478.6
30°	457.5	457.2	456.0	456.0
32.5°	427.1	426.8	425.6	425.9
35°	395.5	396.6	396.1	394.9
37.5°	369.1	370.0	370.6	370.0
40°	347.1	349.7	350.0	350.6
42.5°	323.6	327.1	328.3	328.8
45°	295.5	298.7	301.3	300.7
47.5°	266.8	269.2	271.5	269.7
50°	239.3	240.8	241.6	241.6
52.5°	213.2	213.2	212.9	213.2
55°	183.4	183.4	182.2	182.8
57.5°	152.1	152.7	151.8	150.4
60°	123.1	121.7	121.1	120.2
62.5°	95.9	95.9	93.9	96.5
65°	71.9	71.0	70.1	69.8
67.5°	52.1	51.9	51.0	50.7
70°	36.8	35.6	35.3	34.8
72.5°	24.6	24.6	24.0	24.0
75°	15.1	13.6	13.3	13.6
77.5°	10.4	10.1	10.1	9.9
80°	7.0	6.7	7.2	6.4
82.5°	4.3	4.6	4.3	4.6
85°	2.9	3.5	3.2	3.2
87.5°	1.7	1.7	1.7	1.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)