

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: P244206

Luminaire Tested: **LSR8B10D010 EC8B10940 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244206
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 EC8B10940 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1067.0 lumens
Efficiency: N/A
Efficacy: 104.6 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

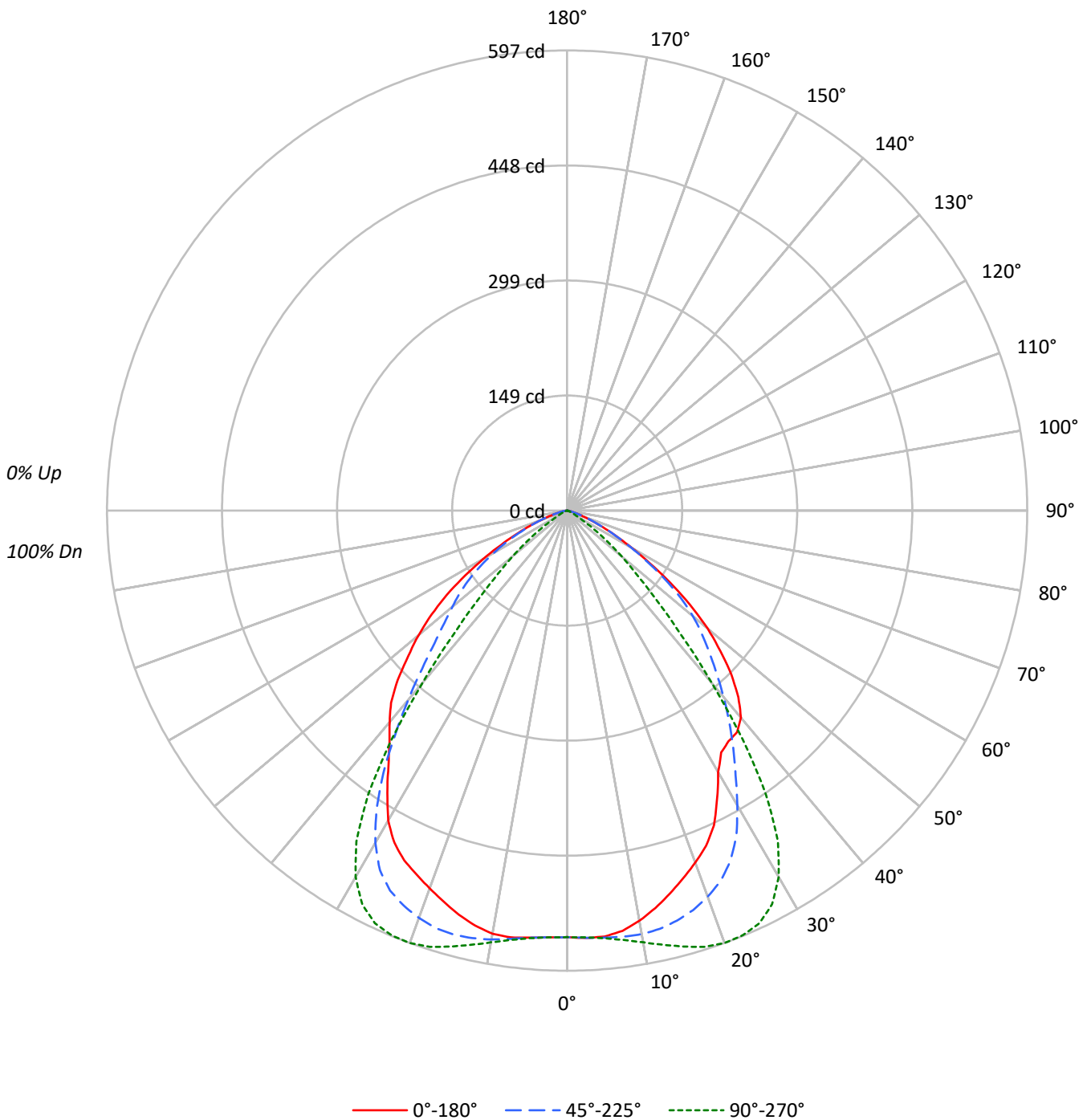
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P244206

CATALOG NUMBER: LSR8B10D010 EC8B10940 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	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	92	90					90			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62					62			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56					56			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45					45			
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41					41			
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38					38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	17068	17068	17068
5°	17170	17235	17217
10°	16918	17810	17460
15°	16425	18692	17325
20°	15948	19591	17113
25°	15335	20091	17032
30°	13954	19541	16529
35°	13748	16932	15208
40°	14121	11742	14415
45°	13144	7100	13554
50°	11403	4385	12080
55°	8752	2290	10252
60°	5964	925	7740
65°	3707	474	5341
70°	2011	289	3255
75°	1048	143	1930
80°	462	160	1048
85°	318	106	920



TEST NUMBER: P244206

CATALOG NUMBER: LSR8B10D010 EC8B10940 8LBDW0LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	5.0
10°-20°	157.7	14.8
20°-30°	240.6	22.5
30°-40°	251.0	23.5
40°-50°	188.6	17.7
50°-60°	116.0	10.9
60°-70°	47.2	4.4
70°-80°	11.1	1.0
80°-90°	1.5	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°	451.5	42.3
0°-40°	702.5	65.8
0°-60°	1007.1	94.4
0°-90°	1067.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1067.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	554	554	554	554	554	
5°	555	556	557	556	556	52
15°	514	551	586	569	543	145
25°	451	501	590	544	501	205
35°	365	376	450	416	404	231
45°	301	261	163	243	311	230
55°	163	154	43	154	191	146
65°	51	51	6	69	73	53
75°	9	9	1	16	16	11
85°	1	1	0	2	3	1
90°	0	0	0	0	0	



TEST NUMBER: P244206

CATALOG NUMBER: LSR8B10D010 EC8B10940 8LBDW0LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	553.5	553.5	553.5	553.5	553.5	553.5	553.5	553.5	553.5	553.5	553.5
2.5°	555.0	554.1	555.0	555.0	555.3	554.7	555.0	555.3	554.7	554.7	554.7
5°	554.7	554.1	554.7	554.4	555.0	555.0	555.6	555.6	556.2	556.2	557.1
7.5°	550.0	548.8	550.0	550.9	551.5	552.6	554.1	555.3	556.5	557.6	559.1
10°	540.3	540.3	541.2	542.9	544.7	546.8	549.4	552.4	555.3	557.9	560.6
12.5°	528.3	527.4	529.1	531.5	534.1	537.4	541.5	545.9	550.6	555.9	560.0
15°	514.5	513.6	515.6	518.0	521.2	525.9	530.9	536.8	543.5	550.6	557.3
17.5°	500.3	500.1	502.1	505.3	508.0	513.0	519.4	526.5	534.1	543.5	552.4
20°	486.0	485.7	487.7	490.4	493.9	498.6	505.0	513.3	522.4	533.0	543.2
22.5°	471.0	471.3	473.0	476.0	478.9	483.9	490.6	498.9	508.9	520.3	531.8
25°	450.7	449.2	451.6	454.5	459.5	463.6	470.1	478.9	489.2	501.2	514.7
27.5°	421.3	421.0	423.1	425.7	430.1	435.1	442.2	451.3	462.2	475.4	488.6
30°	391.9	392.5	393.4	396.0	399.0	404.0	411.0	418.7	429.0	441.6	455.7
32.5°	372.0	372.0	373.1	374.9	376.9	379.6	384.6	390.2	398.1	406.9	417.2
35°	365.2	364.0	365.2	365.5	365.8	366.4	367.3	369.0	371.7	375.5	379.3
37.5°	362.3	361.4	361.4	360.2	358.7	357.0	354.6	352.0	349.0	345.2	342.3
40°	350.8	350.2	349.6	348.5	345.2	341.7	337.9	331.7	324.9	315.5	306.1
42.5°	328.8	328.2	327.9	325.5	322.6	318.5	314.1	307.6	299.1	287.0	273.5
45°	301.4	300.3	299.4	297.3	295.3	291.7	287.6	281.8	273.2	260.9	244.7
47.5°	269.7	269.1	268.8	268.0	265.9	263.8	261.2	256.5	248.9	237.1	220.4
50°	237.7	236.5	237.1	236.8	235.9	234.5	232.7	229.5	223.6	213.0	197.7
52.5°	201.0	201.0	200.7	201.5	201.8	201.5	201.8	198.3	193.3	185.4	172.5
55°	162.8	162.8	163.6	164.8	166.0	166.3	166.0	164.5	161.0	154.5	143.1
57.5°	126.9	126.3	128.1	129.9	131.0	132.2	131.3	130.2	128.1	122.8	114.0
60°	96.7	96.7	97.8	99.0	100.2	101.4	101.1	100.8	99.0	95.5	88.4
62.5°	71.1	71.4	71.4	72.3	73.4	74.6	75.5	74.6	73.7	71.4	66.7
65°	50.8	50.5	50.8	51.7	52.6	53.8	54.4	54.1	53.2	51.4	47.9
67.5°	34.1	33.8	35.0	35.3	35.8	37.0	36.7	37.0	36.7	35.3	32.3
70°	22.3	21.7	22.3	22.0	22.9	23.2	23.8	24.1	23.8	22.9	22.0
72.5°	13.8	13.5	13.8	14.1	14.4	14.7	15.3	15.3	15.0	14.4	13.2
75°	8.8	7.9	8.2	7.6	8.2	8.2	8.8	9.1	8.8	8.8	8.2
77.5°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.6	5.9	5.3	5.0
80°	2.6	2.6	2.9	2.9	2.9	3.2	2.9	2.9	2.9	3.2	2.4
82.5°	2.1	1.8	1.8	1.8	2.1	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: P244206

CATALOG NUMBER: LSR8B10D010 EC8B10940 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	553.5	553.5	553.5	553.5	553.5	553.5	553.5	553.5	553.5	553.5	553.5
2.5°	555.0	554.4	554.4	554.1	554.7	554.1	554.4	554.1	554.1	554.7	554.1
5°	557.1	557.3	556.8	556.5	557.3	557.3	557.3	556.8	556.8	557.1	556.8
7.5°	560.0	560.6	560.9	561.2	561.8	562.0	562.0	561.8	561.5	562.3	561.2
10°	563.2	564.1	565.9	566.7	568.2	568.2	568.8	568.8	568.2	568.8	568.5
12.5°	562.0	567.3	570.3	572.3	574.4	576.1	576.7	577.0	576.7	577.9	576.7
15°	564.1	568.5	573.2	576.7	580.6	582.6	583.2	585.5	586.1	586.4	584.7
17.5°	560.9	568.8	573.8	579.1	584.7	588.5	592.0	593.5	593.8	594.4	592.0
20°	553.5	562.3	570.0	577.6	584.1	590.0	592.9	597.0	595.8	598.2	595.0
22.5°	543.5	553.5	563.2	573.2	580.0	587.0	593.2	596.1	597.6	597.6	594.1
25°	527.7	539.4	550.0	560.3	570.6	579.1	586.1	590.5	591.4	591.1	587.0
27.5°	503.0	515.6	528.0	539.7	552.4	562.3	570.6	575.9	577.3	577.3	572.9
30°	468.9	482.4	494.5	508.6	521.5	532.7	544.1	548.8	551.5	551.5	546.5
32.5°	428.4	439.8	451.0	464.8	478.9	491.5	502.4	508.9	512.1	511.8	507.4
35°	384.3	389.9	398.4	408.7	421.3	433.1	443.6	449.8	455.4	455.1	451.0
37.5°	340.2	338.8	339.6	343.5	351.4	359.6	367.8	373.7	378.4	380.5	379.6
40°	297.0	289.4	282.0	279.4	280.0	282.9	287.3	291.7	297.0	299.7	300.9
42.5°	258.3	245.3	232.4	222.7	217.1	215.4	217.4	218.9	222.1	225.9	229.8
45°	227.1	209.8	192.7	177.8	168.3	162.8	161.6	162.8	164.5	168.3	173.3
47.5°	201.5	181.3	162.2	145.4	131.6	124.3	122.2	121.6	123.4	126.9	133.7
50°	178.9	158.7	137.5	118.1	103.7	95.5	92.5	91.4	93.4	96.1	102.2
52.5°	154.2	134.3	112.5	93.7	78.7	70.2	67.0	65.2	66.4	69.9	76.1
55°	127.5	109.0	89.3	69.9	55.5	47.6	43.8	42.6	43.8	47.6	53.8
57.5°	100.8	85.2	68.7	50.5	37.6	29.7	25.9	24.7	27.9	29.4	35.8
60°	78.7	66.1	52.0	37.0	25.9	19.7	15.9	15.0	16.5	19.1	24.4
62.5°	59.1	51.1	40.0	26.4	19.1	12.6	10.6	9.7	10.6	12.6	16.7
65°	42.9	36.7	27.9	19.4	12.9	9.4	7.1	6.5	7.3	8.8	12.3
67.5°	29.4	24.7	19.4	13.5	8.8	5.9	5.0	5.0	5.3	6.5	9.1
70°	19.1	16.2	12.3	8.8	5.9	4.4	3.8	3.2	3.8	4.7	6.2
72.5°	12.0	10.3	7.9	6.2	4.4	3.2	2.6	2.4	2.9	3.5	4.7
75°	7.3	5.6	4.1	3.2	2.4	2.4	2.4	1.2	1.5	2.4	2.9
77.5°	4.4	3.8	3.2	2.6	2.1	1.2	1.2	1.2	1.5	1.8	2.6
80°	2.4	2.1	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: P244206

CATALOG NUMBER: LSR8B10D010 EC8B10940 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	553.5	553.5	553.5	553.5	553.5	553.5	553.5	553.5	553.5	553.5	553.5
2.5°	554.4	554.1	554.4	554.1	554.1	554.1	554.4	554.4	554.1	554.1	554.7
5°	556.8	556.8	556.8	556.5	556.2	556.2	556.8	556.8	555.9	556.8	556.8
7.5°	561.8	560.9	561.8	560.6	560.0	560.3	560.6	560.0	559.4	559.7	559.7
10°	568.2	567.3	567.3	566.5	565.6	565.0	564.4	562.9	561.5	561.2	560.0
12.5°	575.9	574.4	573.5	571.7	570.3	568.2	566.5	564.1	561.2	559.1	557.1
15°	583.5	581.1	579.1	576.1	572.9	569.4	565.6	561.8	557.1	552.9	549.4
17.5°	589.7	586.4	582.6	577.9	573.2	567.9	562.3	556.8	550.0	544.7	540.6
20°	591.7	587.0	582.0	575.9	569.7	562.3	555.3	547.9	540.3	534.7	530.0
22.5°	589.1	583.5	577.3	570.9	562.6	554.7	546.5	538.0	531.2	523.6	519.2
25°	581.7	575.0	568.2	560.6	552.6	543.8	535.0	526.2	518.0	513.9	508.3
27.5°	566.7	559.4	552.1	544.1	535.0	526.2	517.1	508.6	501.5	495.9	492.7
30°	540.3	531.8	523.3	514.7	506.8	497.7	489.2	482.1	475.1	470.7	467.4
32.5°	499.8	492.1	483.6	475.4	468.0	460.4	453.3	447.2	442.2	439.2	436.9
35°	445.1	437.5	431.0	425.1	419.0	415.7	411.3	407.8	405.7	404.6	404.3
37.5°	376.4	372.0	369.9	368.7	367.5	366.7	367.3	368.7	369.9	372.0	374.3
40°	302.9	306.7	307.9	312.0	315.8	320.8	326.4	332.9	338.2	344.9	349.6
42.5°	235.9	243.0	251.2	260.0	269.4	278.5	289.7	300.0	309.4	317.9	325.2
45°	181.3	192.1	204.5	217.1	229.8	243.0	256.5	269.1	280.3	289.4	297.0
47.5°	141.3	153.4	169.2	184.8	200.1	215.7	230.6	243.9	253.3	262.1	268.8
50°	111.9	125.7	143.1	161.0	177.8	194.2	210.1	222.4	231.8	238.9	243.9
52.5°	86.7	103.1	120.8	139.6	157.5	175.4	190.1	201.5	209.2	215.4	219.2
55°	64.6	80.8	99.6	119.0	137.2	154.5	168.3	178.3	185.1	188.6	190.7
57.5°	46.7	61.4	80.2	99.6	116.1	132.5	143.7	152.8	156.6	158.7	159.5
60°	34.1	47.6	64.3	81.1	96.7	109.9	119.6	125.7	128.7	129.9	129.6
62.5°	25.0	36.7	51.1	65.2	77.9	88.7	96.4	100.5	102.0	102.5	101.7
65°	19.1	28.2	40.5	51.4	61.1	69.0	74.6	77.3	78.2	77.9	77.3
67.5°	14.1	21.2	30.3	38.5	45.5	51.7	54.6	57.0	57.6	56.7	55.8
70°	10.0	15.6	22.0	27.6	32.9	36.4	39.7	40.0	40.0	39.7	39.1
72.5°	7.1	10.9	15.0	18.8	22.0	24.7	25.9	26.7	26.4	26.1	25.6
75°	4.7	6.8	10.9	11.8	14.7	15.6	16.7	16.7	17.0	16.2	16.2
77.5°	2.9	4.7	6.5	7.6	8.8	10.0	10.6	10.6	10.9	10.6	10.6
80°	1.8	2.9	3.5	5.3	5.3	6.2	6.5	6.8	6.2	7.1	6.2
82.5°	1.2	1.8	2.6	2.6	3.2	3.8	3.8	4.1	4.1	3.8	3.8
85°	0.9	1.2	1.5	1.8	1.8	2.1	1.8	1.8	2.1	2.4	2.1
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: P244206

CATALOG NUMBER: LSR8B10D010 EC8B10940 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	553.5	553.5	553.5	553.5
2.5°	554.1	554.4	554.1	554.1
5°	556.8	556.5	556.8	556.2
7.5°	558.8	558.8	558.5	558.5
10°	558.8	557.6	557.6	557.6
12.5°	554.4	552.9	552.1	551.5
15°	546.8	544.1	542.9	542.7
17.5°	536.8	534.4	533.0	532.1
20°	525.3	523.0	521.2	521.5
22.5°	515.3	512.7	511.5	510.9
25°	505.3	502.1	501.2	500.6
27.5°	489.2	487.4	486.5	485.7
30°	464.5	463.6	462.2	464.2
32.5°	436.0	434.5	433.4	434.2
35°	404.6	403.7	404.6	404.0
37.5°	375.8	376.7	377.8	378.4
40°	353.2	356.4	357.6	358.1
42.5°	330.5	334.3	336.7	338.2
45°	302.6	306.4	309.1	310.8
47.5°	273.8	277.1	279.7	279.4
50°	247.7	249.4	250.6	251.8
52.5°	221.2	221.2	221.5	221.5
55°	191.3	190.7	190.4	190.7
57.5°	158.4	157.8	157.5	156.6
60°	128.4	126.6	125.5	125.5
62.5°	100.5	98.4	97.5	97.3
65°	75.5	75.2	73.4	73.2
67.5°	54.6	53.5	52.3	52.6
70°	38.5	36.7	36.7	36.1
72.5°	25.0	24.1	23.8	23.8
75°	15.6	15.6	15.0	16.2
77.5°	10.3	10.3	10.0	10.3
80°	6.2	6.2	6.2	5.9
82.5°	3.8	4.1	3.8	3.8
85°	2.1	2.4	1.8	2.6
87.5°	1.2	1.5	1.2	1.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)