

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: P246042

Luminaire Tested: **LSR8B10D010 EC8B10835 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246042
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 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1130.0 lumens
Efficiency: N/A
Efficacy: 110.8 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

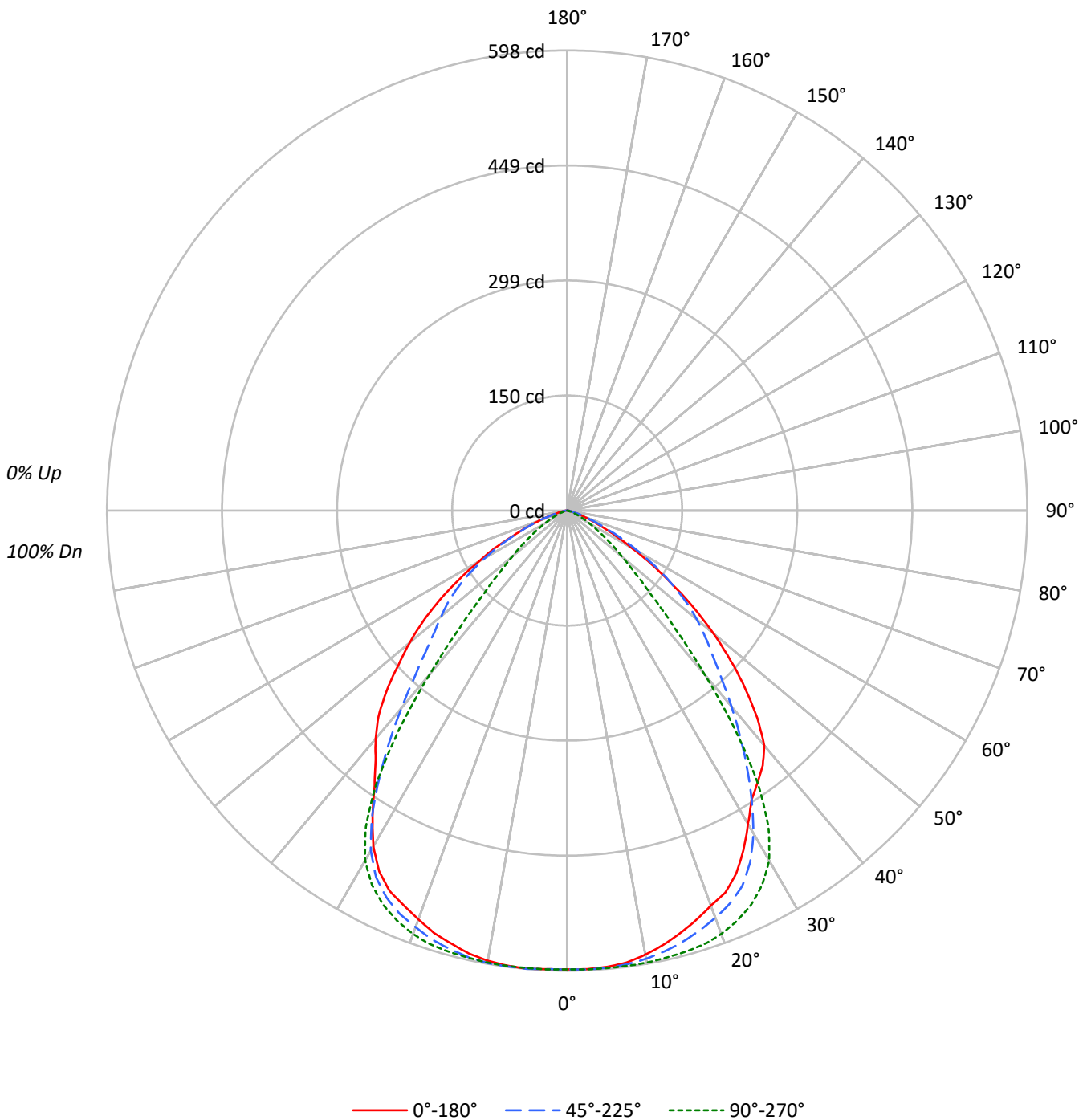
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P246042

CATALOG NUMBER: LSR8B10D010 EC8B10835 8LBDW0GPH

Luminous Intensity Polar Plot





TEST NUMBER: P246042

CATALOG NUMBER: LSR8B10D010 EC8B10835 8LBDW0GPH

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°	18385	18385	18385
5°	18424	18477	18495
10°	18349	18678	18599
15°	18146	18950	18596
20°	17927	19217	18547
25°	17693	19241	18564
30°	16739	18701	17935
35°	16240	16251	16420
40°	16037	11183	15586
45°	14291	6711	14487
50°	11883	4466	12804
55°	8914	3081	10854
60°	6038	2054	8190
65°	3641	1328	5626
70°	2020	721	3462
75°	917	310	1787
80°	799	337	1243
85°	920	460	1238



TEST NUMBER: P246042

CATALOG NUMBER: LSR8B10D010 EC8B10835 8LBDW0GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.9	5.0
10°-20°	165.2	14.6
20°-30°	250.8	22.2
30°-40°	263.4	23.3
40°-50°	197.5	17.5
50°-60°	126.7	11.2
60°-70°	54.2	4.8
70°-80°	12.8	1.1
80°-90°	2.4	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°	473.0	41.9
0°-40°	736.4	65.2
0°-60°	1060.6	93.9
0°-90°	1130.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1130.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	596	596	596	596	596	
5°	595	596	597	598	598	57
15°	568	580	594	590	582	160
25°	520	538	566	555	546	238
35°	431	407	432	427	436	271
45°	328	268	154	260	332	251
55°	166	166	57	173	202	150
65°	50	59	18	76	77	53
75°	8	9	3	15	15	11
85°	3	2	1	3	4	3
90°	0	0	0	0	0	



TEST NUMBER: P246042

CATALOG NUMBER: LSR8B10D010 EC8B10835 8LBDW0GPH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	596.2	596.2	596.2	596.2	596.2	596.2	596.2	596.2	596.2	596.2	596.2
2.5°	596.5	597.2	596.9	596.9	596.5	596.9	596.9	597.5	597.5	596.9	596.5
5°	595.2	595.9	595.9	595.2	595.2	596.9	595.9	596.5	596.5	596.2	596.2
7.5°	592.4	592.4	593.6	592.7	592.7	593.6	593.3	594.0	594.6	594.9	594.9
10°	586.0	586.6	586.9	586.9	587.3	588.2	588.8	590.1	590.8	591.4	591.7
12.5°	578.0	578.9	579.2	578.9	579.9	581.2	582.8	584.4	585.3	586.6	587.6
15°	568.4	568.4	569.0	570.0	570.6	572.5	574.1	576.0	578.6	580.2	581.8
17.5°	557.8	558.5	559.4	559.4	560.7	563.9	564.8	567.7	570.6	572.2	575.4
20°	546.3	546.9	547.9	548.5	550.1	552.7	554.6	557.2	560.4	563.3	566.4
22.5°	537.3	536.0	536.7	537.3	538.9	541.2	543.4	546.6	549.8	552.7	555.9
25°	520.0	520.4	521.3	522.0	523.9	525.8	528.4	532.2	535.1	538.3	541.8
27.5°	496.7	497.0	498.6	498.6	500.2	503.4	505.0	508.2	512.0	515.2	519.4
30°	470.1	470.8	470.8	472.0	473.0	474.6	476.2	479.4	481.3	484.2	490.0
32.5°	445.8	446.4	446.1	445.8	444.8	444.5	444.2	444.8	445.5	446.4	448.7
35°	431.4	429.8	428.5	426.3	423.7	420.5	417.6	413.8	410.3	407.4	404.2
37.5°	417.6	417.3	415.4	412.2	407.1	401.3	394.6	386.3	377.9	369.0	360.4
40°	398.4	397.5	395.9	391.4	385.6	378.6	369.6	359.4	345.9	332.2	318.1
42.5°	365.8	366.1	364.2	360.7	355.2	348.5	339.2	328.0	313.6	297.3	279.1
45°	327.7	327.7	327.1	324.2	320.3	314.9	307.9	298.6	284.5	267.9	248.3
47.5°	288.0	288.3	287.4	286.7	285.1	281.6	276.5	269.5	259.5	243.5	224.0
50°	247.7	247.7	249.3	249.0	249.0	247.7	245.5	241.3	232.7	219.9	201.6
52.5°	207.4	208.0	209.0	210.3	211.9	214.4	211.9	209.9	204.5	194.6	178.9
55°	165.8	166.4	168.0	170.3	172.2	174.7	175.4	175.4	172.5	165.8	153.9
57.5°	130.3	129.3	130.6	132.5	135.1	137.6	139.5	141.8	141.5	137.0	127.4
60°	97.9	98.2	99.2	101.1	103.0	105.3	107.9	109.8	110.7	108.5	102.4
62.5°	71.4	71.4	72.6	74.6	75.5	78.7	80.3	81.3	82.2	81.9	78.1
65°	49.9	50.6	51.2	52.2	53.1	55.0	56.0	57.9	58.6	58.9	56.0
67.5°	35.2	34.2	34.9	35.5	36.5	37.8	39.7	39.7	40.6	40.6	38.7
70°	22.4	22.4	22.7	23.7	24.3	24.6	25.3	25.9	26.9	26.6	26.6
72.5°	15.0	14.7	15.0	15.4	15.7	16.6	16.6	17.0	17.6	17.9	16.6
75°	7.7	8.0	8.6	8.3	9.3	8.6	9.0	9.9	9.6	9.0	9.0
77.5°	6.4	6.4	6.4	6.1	6.7	6.7	6.4	7.0	6.7	6.7	6.4
80°	4.5	4.8	4.5	4.2	4.5	4.2	4.2	4.2	4.2	4.2	3.8
82.5°	3.5	2.9	3.2	2.9	3.2	3.2	2.9	2.6	2.6	2.9	2.6
85°	2.6	1.9	2.2	2.2	1.9	1.9	1.9	1.9	1.9	1.6	1.6
87.5°	1.6	1.0	1.0	1.0	1.3	1.3	1.3	1.0	1.3	1.3	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: P246042

CATALOG NUMBER: LSR8B10D010 EC8B10835 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	596.2	596.2	596.2	596.2	596.2	596.2	596.2	596.2	596.2	596.2	596.2
2.5°	597.2	596.9	597.5	597.2	597.2	596.9	597.2	596.9	597.5	596.2	596.5
5°	597.2	596.5	596.9	597.2	597.5	596.9	596.9	596.9	597.5	596.9	597.2
7.5°	595.9	595.6	596.5	597.2	596.9	596.5	597.2	596.9	597.5	597.2	597.8
10°	593.3	593.6	594.3	595.2	595.6	595.9	596.5	596.5	597.5	596.2	596.9
12.5°	589.5	590.8	592.4	593.0	594.3	594.3	594.9	595.2	595.9	595.6	596.5
15°	584.7	586.3	588.2	589.8	591.4	592.4	593.3	593.6	594.6	593.6	594.0
17.5°	578.9	580.8	583.7	585.6	588.2	589.2	590.4	591.1	592.1	591.4	591.7
20°	570.9	573.2	576.4	579.2	580.8	583.1	584.7	585.6	586.3	585.6	586.0
22.5°	559.7	562.9	567.1	569.3	572.5	574.4	574.8	577.0	578.6	577.0	577.7
25°	546.6	549.8	553.0	557.8	560.7	562.9	565.2	565.5	567.1	566.8	566.4
27.5°	524.8	529.0	534.4	538.3	542.1	545.6	548.2	548.8	550.4	549.8	550.1
30°	495.1	499.6	504.7	510.8	516.2	519.7	522.9	525.2	526.8	525.8	525.5
32.5°	452.8	457.3	462.8	468.8	475.2	480.4	484.2	487.1	489.0	488.4	486.8
35°	404.5	405.8	409.3	414.1	419.6	425.0	428.5	431.7	434.0	434.6	434.6
37.5°	354.9	350.8	348.2	348.2	351.4	353.6	356.8	358.7	362.3	363.5	364.5
40°	306.9	297.3	288.3	281.6	277.1	276.8	276.8	277.8	281.0	285.1	289.0
42.5°	264.0	248.7	234.9	222.4	213.5	208.3	206.1	206.4	209.0	212.8	219.2
45°	229.8	210.6	193.3	178.3	166.1	158.1	154.3	153.9	155.9	160.3	167.4
47.5°	203.2	182.7	163.2	145.9	132.8	124.2	119.7	118.4	119.7	123.8	132.2
50°	181.1	160.0	139.9	121.9	107.9	98.9	94.7	93.1	94.7	98.2	106.6
52.5°	160.7	138.9	120.0	102.7	87.7	80.0	75.5	74.6	75.5	79.7	86.4
55°	137.0	118.4	99.8	82.6	69.4	61.8	58.2	57.3	58.2	62.1	69.1
57.5°	113.6	97.6	81.3	65.6	54.4	47.7	44.5	43.2	45.4	48.0	56.3
60°	91.8	79.0	65.3	51.5	42.2	36.2	33.6	33.3	33.9	37.1	42.9
62.5°	72.0	61.4	50.6	39.4	31.7	29.1	25.9	25.6	26.2	28.2	32.6
65°	51.8	45.1	36.8	28.8	22.7	19.2	17.9	18.2	18.9	20.2	24.3
67.5°	36.2	31.4	25.6	20.2	15.7	14.1	12.8	12.5	12.8	15.0	17.3
70°	24.3	21.4	17.3	15.4	10.9	8.6	9.0	8.0	9.3	9.3	11.2
72.5°	16.0	14.1	11.5	9.0	7.7	6.1	6.1	5.8	6.4	6.7	8.3
75°	8.3	6.4	6.4	4.5	3.2	1.6	2.9	2.6	2.2	2.6	3.2
77.5°	5.8	4.8	4.5	3.5	3.2	2.6	2.6	2.6	2.6	2.9	3.2
80°	3.5	3.5	2.6	2.2	1.9	1.6	1.9	1.9	1.9	1.9	2.2
82.5°	2.2	1.9	1.9	1.6	1.6	1.3	1.3	1.3	1.3	1.3	1.9
85°	1.9	1.3	1.3	1.0	1.3	2.2	1.0	1.3	1.3	1.3	1.0
87.5°	0.6	1.0	1.0	1.0	0.6	0.3	0.6	1.0	1.0	1.6	1.3
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: P246042

CATALOG NUMBER: LSR8B10D010 EC8B10835 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	596.2	596.2	596.2	596.2	596.2	596.2	596.2	596.2	596.2	596.2	596.2
2.5°	597.2	597.5	597.5	597.2	597.2	596.5	597.8	596.9	597.2	598.4	597.5
5°	597.8	598.1	598.1	597.8	597.8	597.8	598.1	598.1	597.8	597.5	598.1
7.5°	599.1	598.8	598.8	598.1	598.1	597.5	598.1	597.2	597.8	597.2	598.1
10°	597.5	597.8	597.5	597.2	597.2	596.9	596.9	595.9	596.2	595.2	595.9
12.5°	596.5	596.2	596.2	595.6	594.9	594.3	594.0	593.0	593.0	590.8	591.7
15°	594.0	594.3	593.3	592.1	591.4	589.8	589.2	587.9	586.6	585.0	585.3
17.5°	591.7	590.8	589.5	588.2	585.6	584.4	583.1	581.2	580.5	578.6	578.0
20°	585.0	584.4	582.8	580.5	578.9	576.0	574.8	572.9	571.2	569.3	568.4
22.5°	576.4	575.7	573.8	571.6	569.0	567.7	566.4	562.9	561.3	559.4	559.1
25°	565.5	564.5	562.6	560.0	558.8	555.2	554.0	551.4	550.8	548.8	548.5
27.5°	548.8	547.6	545.3	542.1	539.9	537.6	536.4	534.4	533.8	531.9	531.6
30°	523.9	522.3	517.8	516.5	512.7	510.4	510.4	507.9	508.2	506.9	506.9
32.5°	484.5	482.0	478.4	475.9	473.3	472.0	472.0	471.1	471.7	471.7	472.4
35°	432.4	428.8	426.9	425.3	425.3	426.6	430.4	431.4	433.3	434.9	436.2
37.5°	365.5	365.2	367.4	369.3	374.1	379.6	386.3	392.0	397.5	401.3	405.2
40°	293.1	301.1	307.5	316.5	323.9	334.4	346.6	356.5	365.8	372.5	379.6
42.5°	228.8	239.1	252.5	265.6	278.7	293.1	309.1	322.9	335.1	344.3	351.7
45°	178.3	192.3	208.7	225.3	242.3	260.2	276.8	290.9	303.7	313.3	320.7
47.5°	143.7	159.1	177.6	195.9	215.1	233.9	252.5	264.7	275.2	282.9	289.6
50°	118.7	135.1	154.6	175.4	194.6	213.5	229.5	241.3	249.9	256.7	260.8
52.5°	99.2	116.5	137.3	158.1	177.3	194.6	209.0	217.9	225.0	229.8	233.6
55°	81.9	98.6	118.1	137.6	156.5	172.8	184.7	191.4	196.8	199.7	201.9
57.5°	66.9	82.2	100.2	118.1	134.4	147.9	157.1	163.9	166.4	168.7	168.3
60°	52.5	66.9	83.2	98.6	112.7	123.5	130.3	134.1	136.0	137.0	136.3
62.5°	41.3	54.4	66.9	80.3	90.6	99.8	106.3	106.3	107.2	107.5	108.5
65°	30.7	40.6	51.5	61.4	69.8	75.8	79.4	80.3	81.6	81.3	80.6
67.5°	22.7	30.1	38.1	45.4	51.2	55.0	57.6	59.8	59.5	58.9	58.6
70°	15.7	20.5	27.5	32.0	36.2	40.0	40.6	41.0	41.3	41.6	41.0
72.5°	10.9	14.4	18.2	22.1	24.6	26.2	27.8	28.2	28.2	28.2	27.8
75°	5.4	7.4	10.9	12.5	14.7	15.4	16.6	16.6	17.6	16.3	16.0
77.5°	4.8	5.8	7.7	9.0	9.9	10.9	11.2	12.2	11.8	11.2	11.5
80°	2.9	3.5	4.8	5.4	6.7	7.0	7.4	7.7	7.4	7.7	7.7
82.5°	2.2	2.6	3.2	3.2	4.2	4.2	4.5	4.5	4.8	4.8	4.8
85°	1.3	2.2	1.9	3.8	2.6	2.6	3.2	3.8	3.2	3.2	3.8
87.5°	1.3	1.3	1.0	1.3	1.3	1.3	1.6	1.9	1.9	2.2	1.9
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: P246042

CATALOG NUMBER: LSR8B10D010 EC8B10835 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	596.2	596.2	596.2	596.2
2.5°	597.2	597.8	596.9	596.5
5°	598.1	598.1	597.5	597.5
7.5°	598.1	598.1	597.2	596.5
10°	595.6	595.6	594.6	594.0
12.5°	590.8	590.8	590.4	589.5
15°	584.7	584.7	583.4	582.5
17.5°	576.4	577.0	575.4	575.4
20°	567.4	567.1	565.8	565.2
22.5°	558.1	557.5	557.2	555.2
25°	548.2	547.6	546.6	545.6
27.5°	531.2	530.9	530.0	528.7
30°	505.3	505.0	503.7	503.7
32.5°	471.7	471.4	470.1	470.4
35°	436.8	438.1	437.5	436.2
37.5°	407.7	408.7	409.3	408.7
40°	383.4	386.3	386.6	387.2
42.5°	357.5	361.3	362.6	363.2
45°	326.4	329.9	332.8	332.2
47.5°	294.7	297.3	299.9	297.9
50°	264.3	265.9	266.9	266.9
52.5°	235.5	235.5	235.2	235.5
55°	202.6	202.6	201.3	201.9
57.5°	168.0	168.7	167.7	166.1
60°	136.0	134.4	133.8	132.8
62.5°	105.9	105.9	103.7	106.6
65°	79.4	78.4	77.4	77.1
67.5°	57.6	57.3	56.3	56.0
70°	40.6	39.4	39.0	38.4
72.5°	27.2	27.2	26.6	26.6
75°	16.6	15.0	14.7	15.0
77.5°	11.5	11.2	11.2	10.9
80°	7.7	7.4	8.0	7.0
82.5°	4.8	5.1	4.8	5.1
85°	3.2	3.8	3.5	3.5
87.5°	1.9	1.9	1.9	1.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)