

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: P244596

Luminaire Tested: **LSR8B10D010 EC8B10830 8LBDW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244596  
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 EC8B10830 8LBDW0H  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1112.0 lumens  
Efficiency: N/A  
Efficacy: 109.0 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

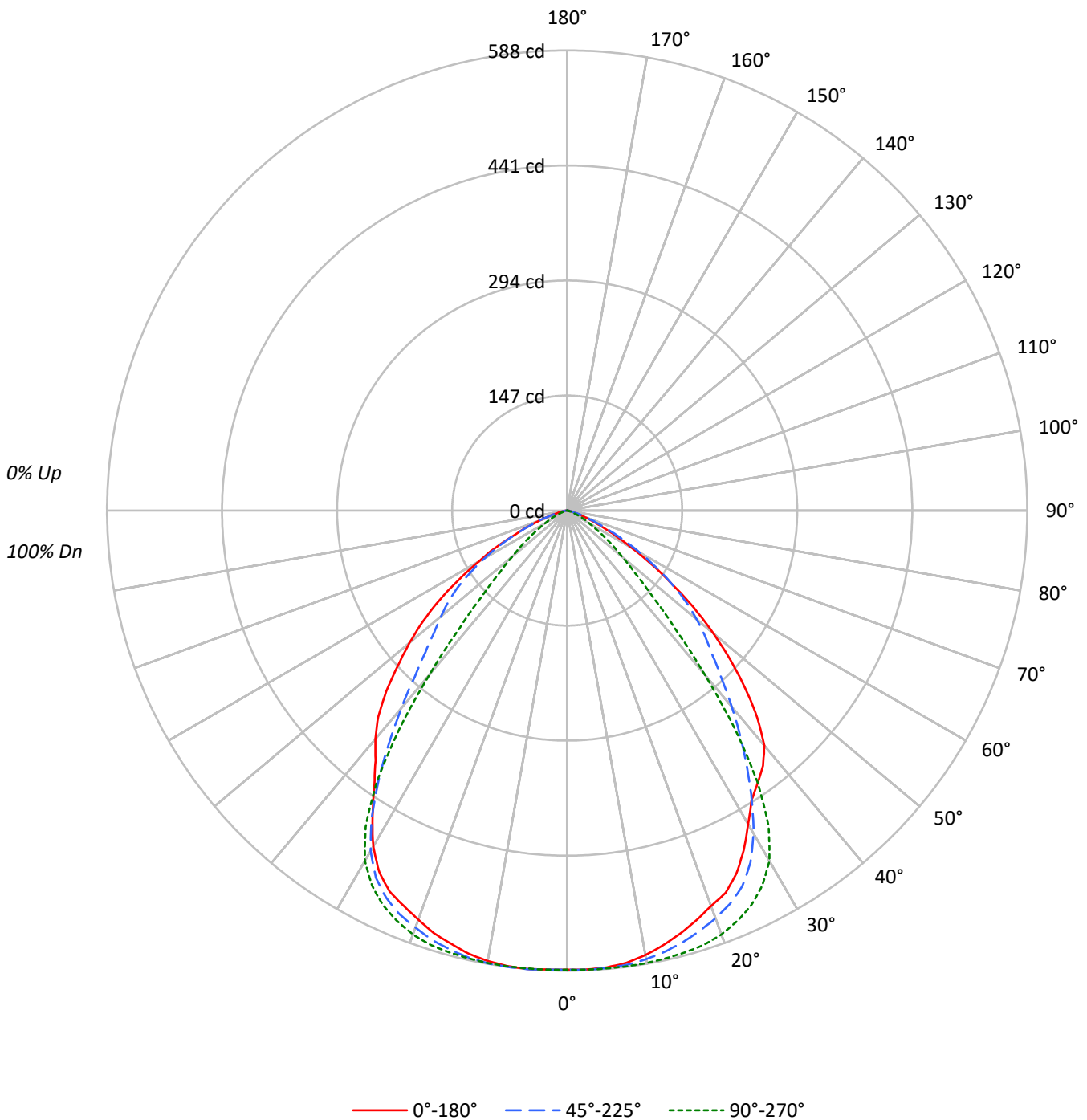
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P244596

CATALOG NUMBER: LSR8B10D010 EC8B10830 8LBDW0H

### Luminous Intensity Polar Plot





TEST NUMBER: P244596

CATALOG NUMBER: LSR8B10D010 EC8B10830 8LBDW0H

**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°	18092	18092	18092
5°	18133	18179	18201
10°	18055	18380	18302
15°	17855	18650	18299
20°	17642	18911	18252
25°	17414	18934	18271
30°	16472	18402	17650
35°	15980	15991	16161
40°	15784	11005	15341
45°	14064	6607	14256
50°	11696	4394	12602
55°	8768	3032	10682
60°	5945	2017	8061
65°	3583	1313	5538
70°	1984	712	3408
75°	905	298	1763
80°	781	337	1225
85°	885	460	1238



TEST NUMBER: P244596

CATALOG NUMBER: LSR8B10D010 EC8B10830 8LBDW0H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.0	5.0
10°-20°	162.6	14.6
20°-30°	246.8	22.2
30°-40°	259.2	23.3
40°-50°	194.4	17.5
50°-60°	124.7	11.2
60°-70°	53.3	4.8
70°-80°	12.6	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°	465.4	41.9
0°-40°	724.7	65.2
0°-60°	1043.7	93.9
0°-90°	1112.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1112.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	587	587	587	587	587	
5°	586	587	587	588	588	56
15°	559	571	584	580	573	158
25°	512	530	556	546	537	234
35°	424	401	425	420	429	266
45°	322	264	152	256	327	247
55°	163	163	56	170	199	148
65°	49	58	18	75	76	52
75°	8	9	2	15	15	11
85°	2	2	1	2	4	3
90°	0	0	0	0	0	



TEST NUMBER: P244596

CATALOG NUMBER: LSR8B10D010 EC8B10830 8LBDW0H

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	586.7	586.7	586.7	586.7	586.7	586.7	586.7	586.7	586.7	586.7	586.7
2.5°	587.0	587.7	587.3	587.3	587.0	587.3	587.3	588.0	588.0	587.3	587.0
5°	585.8	586.4	586.4	585.8	585.8	587.3	586.4	587.0	587.0	586.7	586.7
7.5°	582.9	582.9	584.2	583.3	583.3	584.2	583.9	584.5	585.1	585.5	585.5
10°	576.6	577.3	577.6	577.6	577.9	578.8	579.5	580.7	581.4	582.0	582.3
12.5°	568.8	569.7	570.0	569.7	570.7	571.9	573.5	575.1	576.0	577.3	578.2
15°	559.3	559.3	559.9	560.9	561.5	563.4	565.0	566.9	569.4	571.0	572.5
17.5°	548.9	549.6	550.5	550.5	551.8	554.9	555.9	558.7	561.5	563.1	566.2
20°	537.6	538.2	539.2	539.8	541.4	543.9	545.8	548.3	551.4	554.3	557.4
22.5°	528.8	527.5	528.1	528.8	530.3	532.5	534.8	537.9	541.0	543.9	547.0
25°	511.8	512.1	513.0	513.6	515.5	517.4	519.9	523.7	526.6	529.7	533.2
27.5°	488.8	489.1	490.7	490.7	492.2	495.4	497.0	500.1	503.9	507.0	511.1
30°	462.6	463.3	463.3	464.5	465.5	467.0	468.6	471.8	473.7	476.5	482.2
32.5°	438.7	439.3	439.0	438.7	437.8	437.4	437.1	437.8	438.4	439.3	441.5
35°	424.5	422.9	421.7	419.5	417.0	413.8	411.0	407.2	403.7	400.9	397.8
37.5°	411.0	410.7	408.8	405.6	400.6	394.9	388.3	380.1	371.9	363.1	354.6
40°	392.1	391.1	389.6	385.2	379.5	372.6	363.7	353.7	340.4	326.9	313.0
42.5°	360.0	360.3	358.4	354.9	349.6	343.0	333.8	322.8	308.6	292.6	274.6
45°	322.5	322.5	321.9	319.0	315.2	309.9	303.0	293.8	280.0	263.6	244.4
47.5°	283.4	283.8	282.8	282.2	280.6	277.1	272.1	265.2	255.4	239.7	220.4
50°	243.8	243.8	245.3	245.0	245.0	243.8	241.6	237.5	229.0	216.4	198.4
52.5°	204.1	204.7	205.7	206.9	208.5	211.0	208.5	206.6	201.2	191.5	176.0
55°	163.1	163.8	165.3	167.5	169.4	172.0	172.6	172.6	169.7	163.1	151.5
57.5°	128.2	127.2	128.5	130.4	132.9	135.4	137.3	139.5	139.2	134.8	125.3
60°	96.4	96.7	97.6	99.5	101.4	103.6	106.1	108.0	109.0	106.8	100.8
62.5°	70.2	70.2	71.5	73.4	74.3	77.5	79.0	80.0	80.9	80.6	76.8
65°	49.1	49.8	50.4	51.3	52.3	54.2	55.1	57.0	57.6	57.9	55.1
67.5°	34.6	33.7	34.3	35.0	35.9	37.2	39.1	39.1	40.0	40.0	38.1
70°	22.0	22.0	22.4	23.3	23.9	24.3	24.9	25.5	26.5	26.1	26.1
72.5°	14.8	14.5	14.8	15.1	15.4	16.4	16.4	16.7	17.3	17.6	16.4
75°	7.6	7.9	8.5	8.2	9.1	8.5	8.8	9.8	9.4	8.8	8.8
77.5°	6.3	6.3	6.3	6.0	6.6	6.6	6.3	6.9	6.6	6.6	6.3
80°	4.4	4.7	4.4	4.1	4.4	4.1	4.1	4.1	4.1	4.1	3.8
82.5°	3.5	2.8	3.2	2.8	3.2	3.2	2.8	2.5	2.5	2.8	2.5
85°	2.5	1.9	2.2	2.2	1.9	1.9	1.9	1.9	1.9	1.6	1.6
87.5°	1.6	0.9	0.9	0.9	1.3	1.3	1.3	0.9	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: P244596

CATALOG NUMBER: LSR8B10D010 EC8B10830 8LBDW0H

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	586.7	586.7	586.7	586.7	586.7	586.7	586.7	586.7	586.7	586.7	586.7
2.5°	587.7	587.3	588.0	587.7	587.7	587.3	587.7	587.3	588.0	586.7	587.0
5°	587.7	587.0	587.3	587.7	588.0	587.3	587.3	587.3	588.0	587.3	587.7
7.5°	586.4	586.1	587.0	587.7	587.3	587.0	587.7	587.3	588.0	587.7	588.3
10°	583.9	584.2	584.8	585.8	586.1	586.4	587.0	587.0	588.0	586.7	587.3
12.5°	580.1	581.4	582.9	583.6	584.8	584.8	585.5	585.8	586.4	586.1	587.0
15°	575.4	576.9	578.8	580.4	582.0	582.9	583.9	584.2	585.1	584.2	584.5
17.5°	569.7	571.6	574.4	576.3	578.8	579.8	581.0	581.7	582.6	582.0	582.3
20°	561.8	564.0	567.2	570.0	571.6	573.8	575.4	576.3	576.9	576.3	576.6
22.5°	550.8	554.0	558.1	560.3	563.4	565.3	565.6	567.8	569.4	567.8	568.5
25°	537.9	541.0	544.2	548.9	551.8	554.0	556.2	556.5	558.1	557.7	557.4
27.5°	516.5	520.6	525.9	529.7	533.5	537.0	539.5	540.1	541.7	541.0	541.4
30°	487.2	491.6	496.6	502.6	508.0	511.4	514.6	516.8	518.4	517.4	517.1
32.5°	445.6	450.0	455.4	461.4	467.7	472.7	476.5	479.3	481.2	480.6	479.0
35°	398.1	399.3	402.8	407.5	412.9	418.2	421.7	424.8	427.0	427.7	427.7
37.5°	349.3	345.2	342.6	342.6	345.8	348.0	351.1	353.0	356.5	357.8	358.7
40°	302.0	292.6	283.8	277.1	272.7	272.4	272.4	273.4	276.5	280.6	284.4
42.5°	259.8	244.7	231.2	218.9	210.1	205.0	202.8	203.1	205.7	209.4	215.7
45°	226.1	207.2	190.2	175.4	163.4	155.6	151.8	151.5	153.4	157.8	164.7
47.5°	200.0	179.8	160.6	143.6	130.7	122.2	117.8	116.5	117.8	121.9	130.1
50°	178.3	157.5	137.6	120.0	106.1	97.3	93.2	91.6	93.2	96.7	104.9
52.5°	158.1	136.7	118.1	101.1	86.3	78.7	74.3	73.4	74.3	78.4	85.0
55°	134.8	116.5	98.3	81.3	68.3	60.8	57.3	56.4	57.3	61.1	68.0
57.5°	111.8	96.1	80.0	64.6	53.5	46.9	43.8	42.5	44.7	47.2	55.4
60°	90.4	77.8	64.2	50.7	41.6	35.6	33.1	32.7	33.4	36.5	42.2
62.5°	70.9	60.5	49.8	38.7	31.2	28.7	25.5	25.2	25.8	27.7	32.1
65°	51.0	44.4	36.2	28.3	22.4	18.9	17.6	18.0	18.6	19.8	23.9
67.5°	35.6	30.9	25.2	19.8	15.4	13.9	12.6	12.3	12.6	14.8	17.0
70°	23.9	21.1	17.0	15.1	10.7	8.5	8.8	7.9	9.1	9.1	11.0
72.5°	15.7	13.9	11.3	8.8	7.6	6.0	6.0	5.7	6.3	6.6	8.2
75°	8.2	6.3	6.3	4.4	3.2	1.6	2.8	2.5	2.2	2.5	3.2
77.5°	5.7	4.7	4.4	3.5	3.2	2.5	2.5	2.5	2.5	2.8	3.2
80°	3.5	3.5	2.5	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	0.9	1.3	2.2	0.9	1.3	1.3	1.3	0.9
87.5°	0.6	0.9	0.9	0.9	0.6	0.3	0.6	0.9	0.9	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: P244596

CATALOG NUMBER: LSR8B10D010 EC8B10830 8LBDW0H

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	586.7	586.7	586.7	586.7	586.7	586.7	586.7	586.7	586.7	586.7	586.7
2.5°	587.7	588.0	588.0	587.7	587.7	587.0	588.3	587.3	587.7	588.9	588.0
5°	588.3	588.6	588.6	588.3	588.3	588.3	588.6	588.6	588.3	588.0	588.6
7.5°	589.5	589.2	589.2	588.6	588.6	588.0	588.6	587.7	588.3	587.7	588.6
10°	588.0	588.3	588.0	587.7	587.7	587.3	587.3	586.4	586.7	585.8	586.4
12.5°	587.0	586.7	586.7	586.1	585.5	584.8	584.5	583.6	583.6	581.4	582.3
15°	584.5	584.8	583.9	582.6	582.0	580.4	579.8	578.5	577.3	575.7	576.0
17.5°	582.3	581.4	580.1	578.8	576.3	575.1	573.8	571.9	571.3	569.4	568.8
20°	575.7	575.1	573.5	571.3	569.7	566.9	565.6	563.7	562.1	560.3	559.3
22.5°	567.2	566.6	564.7	562.5	559.9	558.7	557.4	554.0	552.4	550.5	550.2
25°	556.5	555.5	553.6	551.1	549.9	546.4	545.1	542.6	542.0	540.1	539.8
27.5°	540.1	538.8	536.6	533.5	531.3	529.1	527.8	525.9	525.3	523.4	523.1
30°	515.5	514.0	509.6	508.3	504.5	502.3	502.3	499.8	500.1	498.9	498.9
32.5°	476.8	474.3	470.8	468.3	465.8	464.5	464.5	463.6	464.2	464.2	464.8
35°	425.5	422.0	420.1	418.5	418.5	419.8	423.6	424.5	426.4	428.0	429.3
37.5°	359.6	359.3	361.5	363.4	368.2	373.5	380.1	385.8	391.1	394.9	398.7
40°	288.5	296.4	302.6	311.5	318.7	329.1	341.1	350.8	360.0	366.6	373.5
42.5°	225.2	235.3	248.5	261.4	274.3	288.5	304.2	317.8	329.7	338.9	346.1
45°	175.4	189.3	205.3	221.7	238.4	256.0	272.4	286.3	298.9	308.3	315.6
47.5°	141.4	156.5	174.8	192.7	211.6	230.2	248.5	260.4	270.8	278.4	285.0
50°	116.8	132.9	152.1	172.6	191.5	210.1	225.8	237.5	246.0	252.6	256.7
52.5°	97.6	114.6	135.1	155.6	174.5	191.5	205.7	214.5	221.4	226.1	229.9
55°	80.6	97.0	116.2	135.4	154.0	170.1	181.7	188.3	193.7	196.5	198.7
57.5°	65.8	80.9	98.6	116.2	132.3	145.5	154.6	161.2	163.8	166.0	165.7
60°	51.7	65.8	81.9	97.0	110.9	121.6	128.2	132.0	133.8	134.8	134.2
62.5°	40.6	53.5	65.8	79.0	89.1	98.3	104.6	104.6	105.5	105.8	106.8
65°	30.2	40.0	50.7	60.5	68.7	74.6	78.1	79.0	80.3	80.0	79.4
67.5°	22.4	29.6	37.5	44.7	50.4	54.2	56.7	58.9	58.6	57.9	57.6
70°	15.4	20.2	27.1	31.5	35.6	39.4	40.0	40.3	40.6	40.9	40.3
72.5°	10.7	14.2	18.0	21.7	24.3	25.8	27.4	27.7	27.7	27.7	27.4
75°	5.4	7.2	10.7	12.3	14.5	15.1	16.4	16.4	17.3	16.1	15.7
77.5°	4.7	5.7	7.6	8.8	9.8	10.7	11.0	12.0	11.7	11.0	11.3
80°	2.8	3.5	4.7	5.4	6.6	6.9	7.2	7.6	7.2	7.6	7.6
82.5°	2.2	2.5	3.2	3.2	4.1	4.1	4.4	4.4	4.7	4.7	4.7
85°	1.3	2.2	1.9	3.8	2.5	2.5	3.2	3.8	3.2	3.2	3.8
87.5°	1.3	1.3	0.9	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: P244596

CATALOG NUMBER: LSR8B10D010 EC8B10830 8LBDW0H

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	586.7	586.7	586.7	586.7
2.5°	587.7	588.3	587.3	587.0
5°	588.6	588.6	588.0	588.0
7.5°	588.6	588.6	587.7	587.0
10°	586.1	586.1	585.1	584.5
12.5°	581.4	581.4	581.0	580.1
15°	575.4	575.4	574.1	573.2
17.5°	567.2	567.8	566.2	566.2
20°	558.4	558.1	556.8	556.2
22.5°	549.2	548.6	548.3	546.4
25°	539.5	538.8	537.9	537.0
27.5°	522.8	522.5	521.5	520.3
30°	497.3	497.0	495.7	495.7
32.5°	464.2	463.9	462.6	462.9
35°	429.9	431.1	430.5	429.3
37.5°	401.2	402.2	402.8	402.2
40°	377.3	380.1	380.4	381.1
42.5°	351.8	355.6	356.8	357.4
45°	321.2	324.7	327.5	326.9
47.5°	290.0	292.6	295.1	293.2
50°	260.1	261.7	262.7	262.7
52.5°	231.8	231.8	231.5	231.8
55°	199.3	199.3	198.1	198.7
57.5°	165.3	166.0	165.0	163.4
60°	133.8	132.3	131.6	130.7
62.5°	104.2	104.2	102.0	104.9
65°	78.1	77.2	76.2	75.9
67.5°	56.7	56.4	55.4	55.1
70°	40.0	38.7	38.4	37.8
72.5°	26.8	26.8	26.1	26.1
75°	16.4	14.8	14.5	14.8
77.5°	11.3	11.0	11.0	10.7
80°	7.6	7.2	7.9	6.9
82.5°	4.7	5.0	4.7	5.0
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)