

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: P244638

Luminaire Tested: **LSR8B10D010 EC8B10940 8LBDW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244638  
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 EC8B10940 8LBDW0H  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1030.0 lumens  
Efficiency: N/A  
Efficacy: 101.0 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

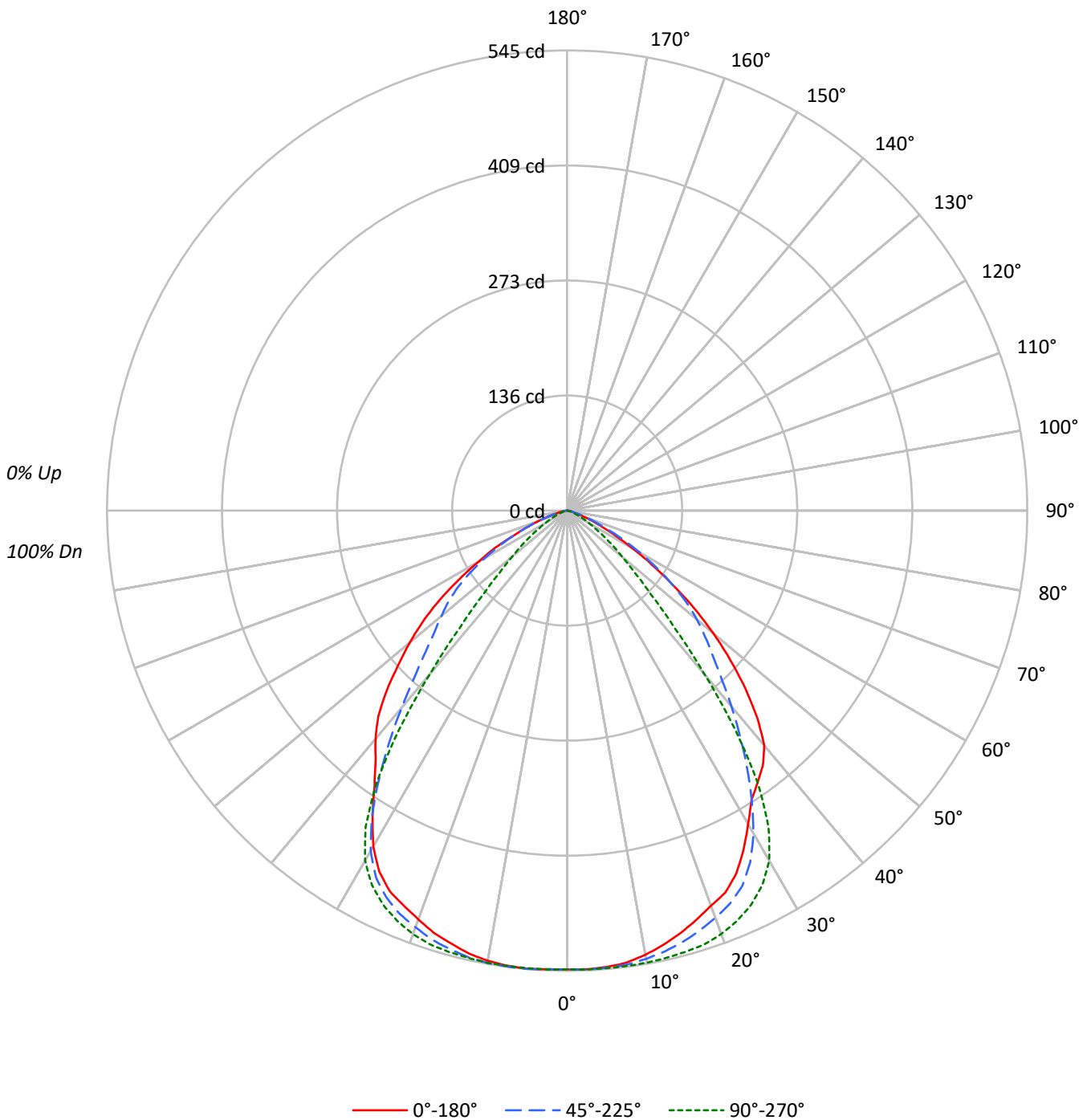
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P244638

CATALOG NUMBER: LSR8B10D010 EC8B10940 8LBDW0H

### Luminous Intensity Polar Plot





TEST NUMBER: P244638

CATALOG NUMBER: LSR8B10D010 EC8B10940 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	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°	16756	16756	16756
5°	16796	16839	16858
10°	16724	17024	16952
15°	16540	17274	16949
20°	16339	17517	16906
25°	16127	17536	16924
30°	15257	17045	16347
35°	14802	14813	14967
40°	14620	10192	14210
45°	13026	6118	13205
50°	10832	4073	11672
55°	8123	2806	9897
60°	5507	1869	7469
65°	3320	1211	5129
70°	1839	658	3156
75°	834	274	1632
80°	728	302	1137
85°	814	425	1132



TEST NUMBER: P244638

CATALOG NUMBER: LSR8B10D010 EC8B10940 8LBDW0H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.9	5.0
10°-20°	150.6	14.6
20°-30°	228.6	22.2
30°-40°	240.1	23.3
40°-50°	180.0	17.5
50°-60°	115.5	11.2
60°-70°	49.4	4.8
70°-80°	11.7	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°	431.1	41.9
0°-40°	671.2	65.2
0°-60°	966.7	93.9
0°-90°	1030.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1030.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	543	543	543	543	543	
5°	543	543	544	545	545	52
15°	518	529	541	538	531	146
25°	474	491	515	506	497	217
35°	393	371	394	389	398	247
45°	299	244	140	237	303	229
55°	151	151	52	158	184	137
65°	46	54	17	69	70	49
75°	7	8	2	14	14	10
85°	2	2	1	2	3	2
90°	0	0	0	0	0	



TEST NUMBER: P244638

CATALOG NUMBER: LSR8B10D010 EC8B10940 8LBDW0H

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	543.4	543.4	543.4	543.4	543.4	543.4	543.4	543.4	543.4	543.4	543.4
2.5°	543.7	544.3	544.0	544.0	543.7	544.0	544.0	544.6	544.6	544.0	543.7
5°	542.6	543.2	543.2	542.6	542.6	544.0	543.2	543.7	543.7	543.4	543.4
7.5°	540.0	540.0	541.1	540.2	540.2	541.1	540.8	541.4	542.0	542.3	542.3
10°	534.1	534.7	535.0	535.0	535.3	536.2	536.7	537.9	538.5	539.1	539.4
12.5°	526.8	527.7	528.0	527.7	528.6	529.7	531.2	532.7	533.5	534.7	535.6
15°	518.1	518.1	518.7	519.5	520.1	521.9	523.3	525.1	527.4	528.9	530.3
17.5°	508.4	509.0	509.9	509.9	511.1	514.0	514.9	517.5	520.1	521.6	524.5
20°	497.9	498.5	499.4	500.0	501.4	503.8	505.5	507.9	510.8	513.4	516.3
22.5°	489.8	488.6	489.2	489.8	491.2	493.3	495.3	498.2	501.2	503.8	506.7
25°	474.0	474.3	475.2	475.8	477.5	479.3	481.6	485.1	487.7	490.7	493.9
27.5°	452.7	453.0	454.5	454.5	455.9	458.9	460.3	463.2	466.7	469.6	473.4
30°	428.5	429.1	429.1	430.3	431.1	432.6	434.1	437.0	438.7	441.4	446.6
32.5°	406.3	406.9	406.6	406.3	405.5	405.2	404.9	405.5	406.1	406.9	409.0
35°	393.2	391.8	390.6	388.6	386.2	383.3	380.7	377.2	374.0	371.3	368.4
37.5°	380.7	380.4	378.6	375.7	371.0	365.8	359.7	352.1	344.5	336.3	328.5
40°	363.2	362.3	360.8	356.8	351.5	345.1	336.9	327.6	315.3	302.8	290.0
42.5°	333.4	333.7	332.0	328.7	323.8	317.7	309.2	299.0	285.9	271.0	254.4
45°	298.7	298.7	298.1	295.5	292.0	287.0	280.6	272.2	259.3	244.2	226.4
47.5°	262.5	262.8	261.9	261.4	259.9	256.7	252.0	245.6	236.6	222.0	204.2
50°	225.8	225.8	227.2	226.9	226.9	225.8	223.7	219.9	212.1	200.4	183.8
52.5°	189.0	189.6	190.5	191.7	193.1	195.4	193.1	191.4	186.4	177.4	163.1
55°	151.1	151.7	153.1	155.2	156.9	159.3	159.9	159.9	157.2	151.1	140.3
57.5°	118.7	117.8	119.0	120.8	123.1	125.4	127.2	129.2	128.9	124.9	116.1
60°	89.3	89.6	90.4	92.2	93.9	96.0	98.3	100.1	100.9	98.9	93.3
62.5°	65.1	65.1	66.2	68.0	68.8	71.8	73.2	74.1	75.0	74.7	71.2
65°	45.5	46.1	46.7	47.6	48.4	50.2	51.0	52.8	53.4	53.7	51.0
67.5°	32.1	31.2	31.8	32.4	33.3	34.4	36.2	36.2	37.0	37.0	35.3
70°	20.4	20.4	20.7	21.6	22.2	22.5	23.0	23.6	24.5	24.2	24.2
72.5°	13.7	13.4	13.7	14.0	14.3	15.2	15.2	15.5	16.0	16.3	15.2
75°	7.0	7.3	7.9	7.6	8.5	7.9	8.2	9.0	8.8	8.2	8.2
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	4.4	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	1.5	1.5
87.5°	1.5	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: P244638

CATALOG NUMBER: LSR8B10D010 EC8B10940 8LBDW0H

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	543.4	543.4	543.4	543.4	543.4	543.4	543.4	543.4	543.4	543.4	543.4
2.5°	544.3	544.0	544.6	544.3	544.3	544.0	544.3	544.0	544.6	543.4	543.7
5°	544.3	543.7	544.0	544.3	544.6	544.0	544.0	544.0	544.6	544.0	544.3
7.5°	543.2	542.9	543.7	544.3	544.0	543.7	544.3	544.0	544.6	544.3	544.9
10°	540.8	541.1	541.7	542.6	542.9	543.2	543.7	543.7	544.6	543.4	544.0
12.5°	537.3	538.5	540.0	540.5	541.7	541.7	542.3	542.6	543.2	542.9	543.7
15°	532.9	534.4	536.2	537.6	539.1	540.0	540.8	541.1	542.0	541.1	541.4
17.5°	527.7	529.4	532.1	533.8	536.2	537.0	538.2	538.8	539.7	539.1	539.4
20°	520.4	522.4	525.4	528.0	529.4	531.5	532.9	533.8	534.4	533.8	534.1
22.5°	510.2	513.1	516.9	518.9	521.9	523.6	523.9	525.9	527.4	525.9	526.5
25°	498.2	501.2	504.1	508.4	511.1	513.1	515.2	515.4	516.9	516.6	516.3
27.5°	478.4	482.2	487.1	490.7	494.1	497.4	499.7	500.3	501.7	501.2	501.4
30°	451.3	455.4	460.0	465.6	470.5	473.7	476.6	478.7	480.1	479.3	479.0
32.5°	412.8	416.8	421.8	427.3	433.2	437.8	441.4	444.0	445.7	445.1	443.7
35°	368.7	369.9	373.1	377.5	382.4	387.4	390.6	393.5	395.6	396.1	396.1
37.5°	323.5	319.7	317.4	317.4	320.3	322.3	325.3	327.0	330.2	331.4	332.3
40°	279.7	271.0	262.8	256.7	252.6	252.3	252.3	253.2	256.1	259.9	263.4
42.5°	240.7	226.7	214.1	202.7	194.6	189.9	187.9	188.2	190.5	194.0	199.8
45°	209.4	191.9	176.2	162.5	151.4	144.1	140.6	140.3	142.1	146.1	152.6
47.5°	185.2	166.6	148.8	133.0	121.1	113.2	109.1	107.9	109.1	112.9	120.5
50°	165.1	145.9	127.5	111.1	98.3	90.1	86.3	84.9	86.3	89.6	97.1
52.5°	146.4	126.6	109.4	93.6	79.9	72.9	68.8	68.0	68.8	72.6	78.8
55°	124.9	107.9	91.0	75.3	63.3	56.3	53.1	52.2	53.1	56.6	63.0
57.5°	103.6	89.0	74.1	59.8	49.6	43.5	40.5	39.4	41.4	43.8	51.3
60°	83.7	72.1	59.5	47.0	38.5	33.0	30.6	30.3	30.9	33.8	39.1
62.5°	65.6	56.0	46.1	35.9	28.9	26.5	23.6	23.3	23.9	25.7	29.8
65°	47.3	41.1	33.5	26.3	20.7	17.5	16.3	16.6	17.2	18.4	22.2
67.5°	33.0	28.6	23.3	18.4	14.3	12.8	11.7	11.4	11.7	13.7	15.8
70°	22.2	19.5	15.8	14.0	9.9	7.9	8.2	7.3	8.5	8.5	10.2
72.5°	14.6	12.8	10.5	8.2	7.0	5.5	5.5	5.3	5.8	6.1	7.6
75°	7.6	5.8	5.8	4.1	2.9	1.5	2.6	2.3	2.0	2.3	2.9
77.5°	5.3	4.4	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	1.5	1.7	1.7	1.7	1.7	2.0
82.5°	2.0	1.7	1.7	1.5	1.5	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	1.5	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: P244638

CATALOG NUMBER: LSR8B10D010 EC8B10940 8LBDW0H

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	543.4	543.4	543.4	543.4	543.4	543.4	543.4	543.4	543.4	543.4	543.4
2.5°	544.3	544.6	544.6	544.3	544.3	543.7	544.9	544.0	544.3	545.5	544.6
5°	544.9	545.2	545.2	544.9	544.9	544.9	545.2	545.2	544.9	544.6	545.2
7.5°	546.1	545.8	545.8	545.2	545.2	544.6	545.2	544.3	544.9	544.3	545.2
10°	544.6	544.9	544.6	544.3	544.3	544.0	544.0	543.2	543.4	542.6	543.2
12.5°	543.7	543.4	543.4	542.9	542.3	541.7	541.4	540.5	540.5	538.5	539.4
15°	541.4	541.7	540.8	539.7	539.1	537.6	537.0	535.9	534.7	533.2	533.5
17.5°	539.4	538.5	537.3	536.2	533.8	532.7	531.5	529.7	529.2	527.4	526.8
20°	533.2	532.7	531.2	529.2	527.7	525.1	523.9	522.2	520.7	518.9	518.1
22.5°	525.4	524.8	523.0	521.0	518.7	517.5	516.3	513.1	511.7	509.9	509.6
25°	515.4	514.6	512.8	510.5	509.3	506.1	504.9	502.6	502.0	500.3	500.0
27.5°	500.3	499.1	497.1	494.1	492.1	490.1	488.9	487.1	486.6	484.8	484.5
30°	477.5	476.1	472.0	470.8	467.3	465.3	465.3	462.9	463.2	462.1	462.1
32.5°	441.6	439.3	436.1	433.8	431.4	430.3	430.3	429.4	430.0	430.0	430.6
35°	394.1	390.9	389.1	387.7	387.7	388.8	392.3	393.2	395.0	396.4	397.6
37.5°	333.1	332.8	334.9	336.6	341.0	346.0	352.1	357.3	362.3	365.8	369.3
40°	267.2	274.5	280.3	288.5	295.2	304.8	315.9	325.0	333.4	339.5	346.0
42.5°	208.6	217.9	230.2	242.1	254.1	267.2	281.8	294.3	305.4	313.9	320.6
45°	162.5	175.3	190.2	205.4	220.8	237.2	252.3	265.2	276.8	285.6	292.3
47.5°	131.0	145.0	161.9	178.5	196.0	213.2	230.2	241.2	250.9	257.9	264.0
50°	108.2	123.1	140.9	159.9	177.4	194.6	209.2	219.9	227.8	233.9	237.7
52.5°	90.4	106.2	125.1	144.1	161.6	177.4	190.5	198.7	205.1	209.4	212.9
55°	74.7	89.8	107.6	125.4	142.6	157.5	168.3	174.4	179.4	182.0	184.1
57.5°	61.0	75.0	91.3	107.6	122.5	134.8	143.2	149.4	151.7	153.7	153.4
60°	47.8	61.0	75.8	89.8	102.7	112.6	118.7	122.2	124.0	124.9	124.3
62.5°	37.6	49.6	61.0	73.2	82.6	91.0	96.8	96.8	97.7	98.0	98.9
65°	28.0	37.0	47.0	56.0	63.6	69.1	72.3	73.2	74.4	74.1	73.5
67.5°	20.7	27.4	34.7	41.4	46.7	50.2	52.5	54.6	54.3	53.7	53.4
70°	14.3	18.7	25.1	29.2	33.0	36.5	37.0	37.3	37.6	37.9	37.3
72.5°	9.9	13.1	16.6	20.1	22.5	23.9	25.4	25.7	25.7	25.7	25.4
75°	5.0	6.7	9.9	11.4	13.4	14.0	15.2	15.2	16.0	14.9	14.6
77.5°	4.4	5.3	7.0	8.2	9.0	9.9	10.2	11.1	10.8	10.2	10.5
80°	2.6	3.2	4.4	5.0	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	4.4	4.4	4.4
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	1.5	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: P244638

CATALOG NUMBER: LSR8B10D010 EC8B10940 8LBDW0H

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	543.4	543.4	543.4	543.4
2.5°	544.3	544.9	544.0	543.7
5°	545.2	545.2	544.6	544.6
7.5°	545.2	545.2	544.3	543.7
10°	542.9	542.9	542.0	541.4
12.5°	538.5	538.5	538.2	537.3
15°	532.9	532.9	531.8	530.9
17.5°	525.4	525.9	524.5	524.5
20°	517.2	516.9	515.7	515.2
22.5°	508.7	508.2	507.9	506.1
25°	499.7	499.1	498.2	497.4
27.5°	484.2	483.9	483.1	481.9
30°	460.6	460.3	459.1	459.1
32.5°	430.0	429.7	428.5	428.8
35°	398.2	399.3	398.8	397.6
37.5°	371.6	372.5	373.1	372.5
40°	349.5	352.1	352.4	353.0
42.5°	325.8	329.3	330.5	331.1
45°	297.5	300.7	303.4	302.8
47.5°	268.7	271.0	273.3	271.6
50°	241.0	242.4	243.3	243.3
52.5°	214.7	214.7	214.4	214.7
55°	184.6	184.6	183.5	184.1
57.5°	153.1	153.7	152.9	151.4
60°	124.0	122.5	121.9	121.1
62.5°	96.6	96.6	94.5	97.1
65°	72.3	71.5	70.6	70.3
67.5°	52.5	52.2	51.3	51.0
70°	37.0	35.9	35.6	35.0
72.5°	24.8	24.8	24.2	24.2
75°	15.2	13.7	13.4	13.7
77.5°	10.5	10.2	10.2	9.9
80°	7.0	6.7	7.3	6.4
82.5°	4.4	4.7	4.4	4.7
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)