

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: P246168

Luminaire Tested: **LSR8B10D010 EC8B109730 8LBDW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246168  
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 EC8B109730 8LBDW0B  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 754.0 lumens  
Efficiency: N/A  
Efficacy: 73.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

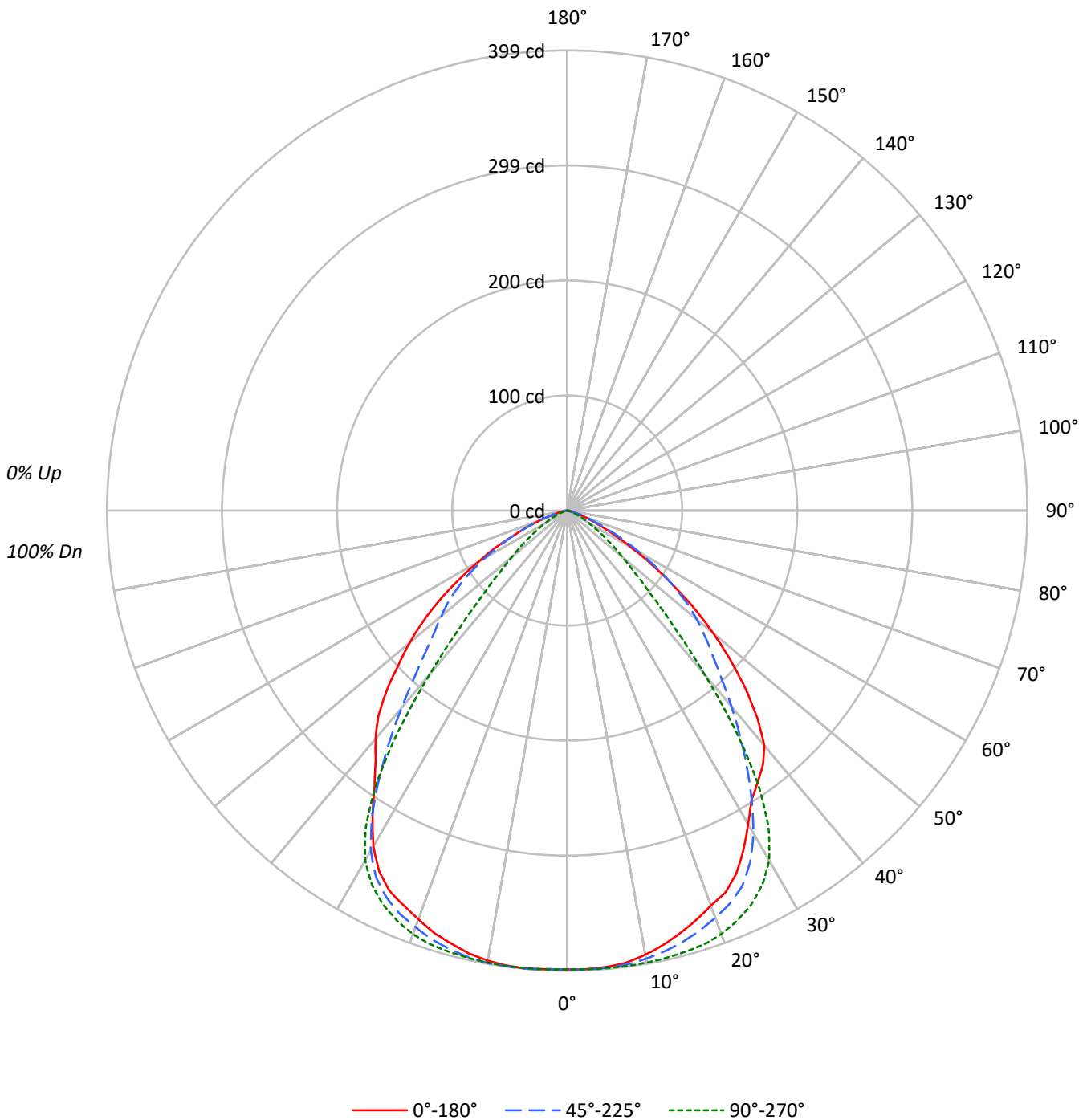
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### 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	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°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.0	5.0
10°-20°	110.3	14.6
20°-30°	167.4	22.2
30°-40°	175.8	23.3
40°-50°	131.8	17.5
50°-60°	84.6	11.2
60°-70°	36.2	4.8
70°-80°	8.6	1.1
80°-90°	1.6	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°	315.6	41.9
0°-40°	491.4	65.2
0°-60°	707.7	93.9
0°-90°	754.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	754.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	398	398	398	398	398	
5°	397	398	398	399	399	38
15°	379	387	396	394	389	107
25°	347	359	377	370	364	159
35°	288	272	288	285	291	181
45°	219	179	103	174	222	167
55°	111	111	38	115	135	100
65°	33	39	12	51	52	36
75°	5	6	2	10	10	7
85°	2	1	1	2	2	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	397.8	397.8	397.8	397.8	397.8	397.8	397.8	397.8	397.8	397.8	397.8
2.5°	398.0	398.5	398.3	398.3	398.0	398.3	398.3	398.7	398.7	398.3	398.0
5°	397.2	397.6	397.6	397.2	397.2	398.3	397.6	398.0	398.0	397.8	397.8
7.5°	395.3	395.3	396.1	395.5	395.5	396.1	395.9	396.3	396.8	397.0	397.0
10°	391.0	391.4	391.6	391.6	391.8	392.5	392.9	393.8	394.2	394.6	394.8
12.5°	385.7	386.3	386.5	386.3	386.9	387.8	388.9	389.9	390.6	391.4	392.1
15°	379.2	379.2	379.7	380.3	380.7	382.0	383.1	384.4	386.1	387.2	388.2
17.5°	372.2	372.6	373.3	373.3	374.1	376.3	376.9	378.8	380.7	381.8	383.9
20°	364.5	364.9	365.6	366.0	367.1	368.8	370.1	371.8	373.9	375.8	378.0
22.5°	358.5	357.7	358.1	358.5	359.6	361.1	362.6	364.7	366.9	368.8	370.9
25°	347.0	347.2	347.9	348.3	349.6	350.8	352.6	355.1	357.0	359.2	361.5
27.5°	331.4	331.6	332.7	332.7	333.8	335.9	337.0	339.1	341.7	343.8	346.6
30°	313.7	314.1	314.1	315.0	315.6	316.7	317.7	319.9	321.2	323.1	326.9
32.5°	297.5	297.9	297.7	297.5	296.8	296.6	296.4	296.8	297.2	297.9	299.4
35°	287.9	286.8	285.9	284.4	282.7	280.6	278.7	276.1	273.8	271.8	269.7
37.5°	278.7	278.5	277.2	275.0	271.6	267.8	263.3	257.7	252.2	246.2	240.4
40°	265.9	265.2	264.1	261.2	257.3	252.6	246.6	239.8	230.8	221.7	212.3
42.5°	244.1	244.3	243.0	240.7	237.0	232.5	226.4	218.9	209.3	198.4	186.2
45°	218.7	218.7	218.2	216.3	213.8	210.1	205.4	199.2	189.8	178.7	165.7
47.5°	192.2	192.4	191.8	191.3	190.3	187.9	184.5	179.8	173.2	162.5	149.5
50°	165.3	165.3	166.3	166.1	166.1	165.3	163.8	161.0	155.2	146.7	134.5
52.5°	138.4	138.8	139.4	140.3	141.4	143.1	141.4	140.1	136.5	129.8	119.4
55°	110.6	111.0	112.1	113.6	114.9	116.6	117.0	117.0	115.1	110.6	102.7
57.5°	86.9	86.3	87.1	88.4	90.1	91.8	93.1	94.6	94.4	91.4	85.0
60°	65.3	65.6	66.2	67.5	68.8	70.3	72.0	73.2	73.9	72.4	68.3
62.5°	47.6	47.6	48.5	49.8	50.4	52.5	53.6	54.2	54.9	54.7	52.1
65°	33.3	33.7	34.2	34.8	35.4	36.7	37.4	38.6	39.1	39.3	37.4
67.5°	23.5	22.8	23.3	23.7	24.3	25.2	26.5	26.5	27.1	27.1	25.8
70°	14.9	14.9	15.2	15.8	16.2	16.4	16.9	17.3	17.9	17.7	17.7
72.5°	10.0	9.8	10.0	10.3	10.5	11.1	11.1	11.3	11.7	12.0	11.1
75°	5.1	5.3	5.8	5.6	6.2	5.8	6.0	6.6	6.4	6.0	6.0
77.5°	4.3	4.3	4.3	4.1	4.5	4.5	4.3	4.7	4.5	4.5	4.3
80°	3.0	3.2	3.0	2.8	3.0	2.8	2.8	2.8	2.8	2.8	2.6
82.5°	2.4	1.9	2.1	1.9	2.1	2.1	1.9	1.7	1.7	1.9	1.7
85°	1.7	1.3	1.5	1.5	1.3	1.3	1.3	1.3	1.3	1.1	1.1
87.5°	1.1	0.6	0.6	0.6	0.9	0.9	0.9	0.6	0.9	0.9	0.4
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: P246168

CATALOG NUMBER: LSR8B10D010 EC8B109730 8LBDW0B

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	397.8	397.8	397.8	397.8	397.8	397.8	397.8	397.8	397.8	397.8	397.8
2.5°	398.5	398.3	398.7	398.5	398.5	398.3	398.5	398.3	398.7	397.8	398.0
5°	398.5	398.0	398.3	398.5	398.7	398.3	398.3	398.3	398.7	398.3	398.5
7.5°	397.6	397.4	398.0	398.5	398.3	398.0	398.5	398.3	398.7	398.5	398.9
10°	395.9	396.1	396.5	397.2	397.4	397.6	398.0	398.0	398.7	397.8	398.3
12.5°	393.3	394.2	395.3	395.7	396.5	396.5	397.0	397.2	397.6	397.4	398.0
15°	390.1	391.2	392.5	393.6	394.6	395.3	395.9	396.1	396.8	396.1	396.3
17.5°	386.3	387.6	389.5	390.8	392.5	393.1	394.0	394.4	395.1	394.6	394.8
20°	381.0	382.5	384.6	386.5	387.6	389.1	390.1	390.8	391.2	390.8	391.0
22.5°	373.5	375.6	378.4	379.9	382.0	383.3	383.5	385.0	386.1	385.0	385.4
25°	364.7	366.9	369.0	372.2	374.1	375.6	377.1	377.3	378.4	378.2	378.0
27.5°	350.2	353.0	356.6	359.2	361.7	364.1	365.8	366.2	367.3	366.9	367.1
30°	330.3	333.3	336.8	340.8	344.4	346.8	348.9	350.4	351.5	350.8	350.6
32.5°	302.2	305.1	308.8	312.8	317.1	320.5	323.1	325.0	326.3	325.9	324.8
35°	269.9	270.8	273.1	276.3	279.9	283.6	285.9	288.1	289.6	290.0	290.0
37.5°	236.8	234.0	232.3	232.3	234.5	236.0	238.1	239.4	241.7	242.6	243.2
40°	204.8	198.4	192.4	187.9	184.9	184.7	184.7	185.4	187.5	190.3	192.8
42.5°	176.2	165.9	156.7	148.4	142.4	139.0	137.5	137.7	139.4	142.0	146.3
45°	153.3	140.5	129.0	118.9	110.8	105.5	102.9	102.7	104.0	107.0	111.7
47.5°	135.6	121.9	108.9	97.4	88.6	82.9	79.9	79.0	79.9	82.6	88.2
50°	120.9	106.8	93.3	81.4	72.0	66.0	63.2	62.1	63.2	65.6	71.1
52.5°	107.2	92.7	80.1	68.5	58.5	53.4	50.4	49.8	50.4	53.2	57.7
55°	91.4	79.0	66.6	55.1	46.3	41.2	38.9	38.2	38.9	41.4	46.1
57.5°	75.8	65.1	54.2	43.8	36.3	31.8	29.7	28.8	30.3	32.0	37.6
60°	61.3	52.7	43.6	34.4	28.2	24.1	22.4	22.2	22.6	24.8	28.6
62.5°	48.0	41.0	33.7	26.3	21.1	19.4	17.3	17.1	17.5	18.8	21.8
65°	34.6	30.1	24.6	19.2	15.2	12.8	12.0	12.2	12.6	13.5	16.2
67.5°	24.1	20.9	17.1	13.5	10.5	9.4	8.5	8.3	8.5	10.0	11.5
70°	16.2	14.3	11.5	10.3	7.3	5.8	6.0	5.3	6.2	6.2	7.5
72.5°	10.7	9.4	7.7	6.0	5.1	4.1	4.1	3.8	4.3	4.5	5.6
75°	5.6	4.3	4.3	3.0	2.1	1.1	1.9	1.7	1.5	1.7	2.1
77.5°	3.8	3.2	3.0	2.4	2.1	1.7	1.7	1.7	1.7	1.9	2.1
80°	2.4	2.4	1.7	1.5	1.3	1.1	1.3	1.3	1.3	1.3	1.5
82.5°	1.5	1.3	1.3	1.1	1.1	0.9	0.9	0.9	0.9	0.9	1.3
85°	1.3	0.9	0.9	0.6	0.9	1.5	0.6	0.9	0.9	0.9	0.6
87.5°	0.4	0.6	0.6	0.6	0.4	0.2	0.4	0.6	0.6	1.1	0.9
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: P246168

CATALOG NUMBER: LSR8B10D010 EC8B109730 8LBDW0B

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	397.8	397.8	397.8	397.8	397.8	397.8	397.8	397.8	397.8	397.8	397.8
2.5°	398.5	398.7	398.7	398.5	398.5	398.0	398.9	398.3	398.5	399.3	398.7
5°	398.9	399.1	399.1	398.9	398.9	398.9	399.1	399.1	398.9	398.7	399.1
7.5°	399.7	399.5	399.5	399.1	399.1	398.7	399.1	398.5	398.9	398.5	399.1
10°	398.7	398.9	398.7	398.5	398.5	398.3	398.3	397.6	397.8	397.2	397.6
12.5°	398.0	397.8	397.8	397.4	397.0	396.5	396.3	395.7	395.7	394.2	394.8
15°	396.3	396.5	395.9	395.1	394.6	393.6	393.1	392.3	391.4	390.4	390.6
17.5°	394.8	394.2	393.3	392.5	390.8	389.9	389.1	387.8	387.4	386.1	385.7
20°	390.4	389.9	388.9	387.4	386.3	384.4	383.5	382.2	381.2	379.9	379.2
22.5°	384.6	384.2	382.9	381.4	379.7	378.8	378.0	375.6	374.5	373.3	373.1
25°	377.3	376.7	375.4	373.7	372.8	370.5	369.6	367.9	367.5	366.2	366.0
27.5°	366.2	365.4	363.9	361.7	360.2	358.7	357.9	356.6	356.2	354.9	354.7
30°	349.6	348.5	345.5	344.7	342.1	340.6	340.6	338.9	339.1	338.2	338.2
32.5°	323.3	321.6	319.2	317.5	315.8	315.0	315.0	314.3	314.8	314.8	315.2
35°	288.5	286.1	284.9	283.8	283.8	284.6	287.2	287.9	289.1	290.2	291.1
37.5°	243.9	243.7	245.1	246.4	249.6	253.3	257.7	261.6	265.2	267.8	270.3
40°	195.6	200.9	205.2	211.2	216.1	223.1	231.3	237.9	244.1	248.6	253.3
42.5°	152.7	159.5	168.5	177.2	186.0	195.6	206.3	215.5	223.6	229.8	234.7
45°	118.9	128.3	139.2	150.3	161.7	173.6	184.7	194.1	202.7	209.1	214.0
47.5°	95.9	106.1	118.5	130.7	143.5	156.1	168.5	176.6	183.6	188.8	193.3
50°	79.2	90.1	103.1	117.0	129.8	142.4	153.1	161.0	166.8	171.3	174.0
52.5°	66.2	77.7	91.6	105.5	118.3	129.8	139.4	145.4	150.1	153.3	155.9
55°	54.7	65.8	78.8	91.8	104.4	115.3	123.2	127.7	131.3	133.2	134.7
57.5°	44.6	54.9	66.8	78.8	89.7	98.7	104.8	109.3	111.0	112.5	112.3
60°	35.0	44.6	55.5	65.8	75.2	82.4	86.9	89.5	90.8	91.4	91.0
62.5°	27.5	36.3	44.6	53.6	60.4	66.6	70.9	70.9	71.5	71.7	72.4
65°	20.5	27.1	34.4	41.0	46.5	50.6	53.0	53.6	54.5	54.2	53.8
67.5°	15.2	20.1	25.4	30.3	34.2	36.7	38.4	39.9	39.7	39.3	39.1
70°	10.5	13.7	18.4	21.4	24.1	26.7	27.1	27.3	27.5	27.8	27.3
72.5°	7.3	9.6	12.2	14.7	16.4	17.5	18.6	18.8	18.8	18.8	18.6
75°	3.6	4.9	7.3	8.3	9.8	10.3	11.1	11.1	11.7	10.9	10.7
77.5°	3.2	3.8	5.1	6.0	6.6	7.3	7.5	8.1	7.9	7.5	7.7
80°	1.9	2.4	3.2	3.6	4.5	4.7	4.9	5.1	4.9	5.1	5.1
82.5°	1.5	1.7	2.1	2.1	2.8	2.8	3.0	3.0	3.2	3.2	3.2
85°	0.9	1.5	1.3	2.6	1.7	1.7	2.1	2.6	2.1	2.1	2.6
87.5°	0.9	0.9	0.6	0.9	0.9	0.9	1.1	1.3	1.3	1.5	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: P246168

CATALOG NUMBER: LSR8B10D010 EC8B109730 8LBDW0B

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	397.8	397.8	397.8	397.8
2.5°	398.5	398.9	398.3	398.0
5°	399.1	399.1	398.7	398.7
7.5°	399.1	399.1	398.5	398.0
10°	397.4	397.4	396.8	396.3
12.5°	394.2	394.2	394.0	393.3
15°	390.1	390.1	389.3	388.6
17.5°	384.6	385.0	383.9	383.9
20°	378.6	378.4	377.5	377.1
22.5°	372.4	372.0	371.8	370.5
25°	365.8	365.4	364.7	364.1
27.5°	354.5	354.3	353.6	352.8
30°	337.2	337.0	336.1	336.1
32.5°	314.8	314.5	313.7	313.9
35°	291.5	292.3	291.9	291.1
37.5°	272.0	272.7	273.1	272.7
40°	255.8	257.7	258.0	258.4
42.5°	238.5	241.1	241.9	242.4
45°	217.8	220.2	222.1	221.7
47.5°	196.7	198.4	200.1	198.8
50°	176.4	177.5	178.1	178.1
52.5°	157.2	157.2	157.0	157.2
55°	135.2	135.2	134.3	134.7
57.5°	112.1	112.5	111.9	110.8
60°	90.8	89.7	89.3	88.6
62.5°	70.7	70.7	69.2	71.1
65°	53.0	52.3	51.7	51.5
67.5°	38.4	38.2	37.6	37.4
70°	27.1	26.3	26.1	25.6
72.5°	18.2	18.2	17.7	17.7
75°	11.1	10.0	9.8	10.0
77.5°	7.7	7.5	7.5	7.3
80°	5.1	4.9	5.3	4.7
82.5°	3.2	3.4	3.2	3.4
85°	2.1	2.6	2.4	2.4
87.5°	1.3	1.3	1.3	1.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)