

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: P245514

Luminaire Tested: **LSR8B10D010 EC8B10927 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245514
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 EC8B10927 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 912.4 lumens
Efficiency: N/A
Efficacy: 89.4 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

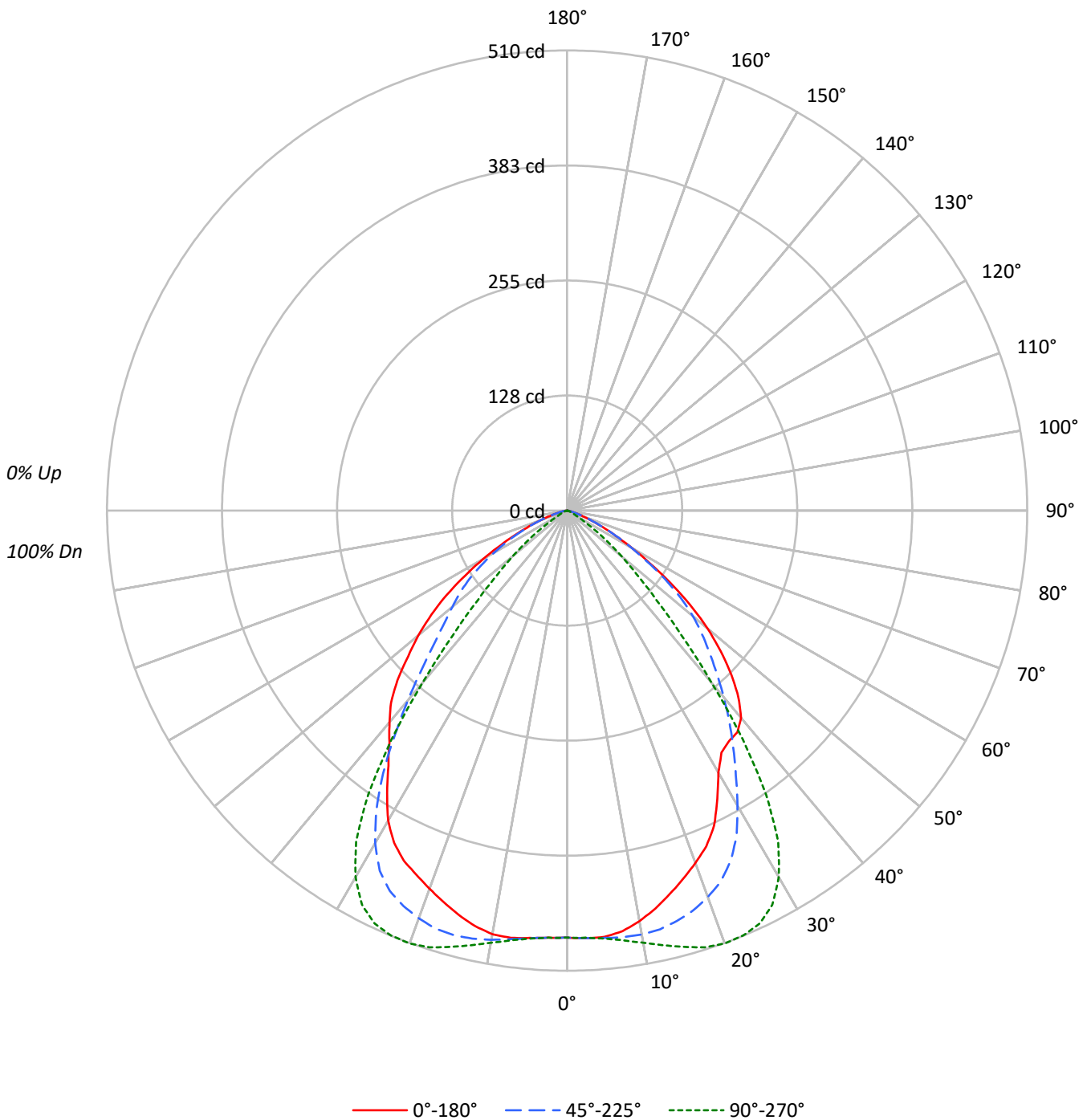
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P245514

CATALOG NUMBER: LSR8B10D010 EC8B10927 8LBDW0WH

Luminous Intensity Polar Plot





TEST NUMBER: P245514

CATALOG NUMBER: LSR8B10D010 EC8B10927 8LBDW0WH

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	75	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°	14595	14595	14595
5°	14682	14737	14719
10°	14466	15227	14930
15°	14043	15984	14816
20°	13638	16752	14636
25°	13113	17182	14566
30°	11932	16707	14132
35°	11756	14478	13006
40°	12072	10039	12326
45°	11238	6070	11591
50°	9753	3747	10329
55°	7484	1957	8763
60°	5100	789	6617
65°	3167	401	4568
70°	1722	252	2786
75°	894	119	1644
80°	391	142	906
85°	283	71	778



TEST NUMBER: P245514

CATALOG NUMBER: LSR8B10D010 EC8B10927 8LBDW0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.5	5.0
10°-20°	134.8	14.8
20°-30°	205.7	22.5
30°-40°	214.7	23.5
40°-50°	161.2	17.7
50°-60°	99.2	10.9
60°-70°	40.4	4.4
70°-80°	9.5	1.0
80°-90°	1.3	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°	386.1	42.3
0°-40°	600.7	65.8
0°-60°	861.2	94.4
0°-90°	912.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	912.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	473	473	473	473	473	
5°	474	476	476	476	476	45
15°	440	471	501	487	464	124
25°	385	429	505	465	428	175
35°	312	321	385	356	346	197
45°	258	223	139	208	266	197
55°	139	132	36	132	163	125
65°	43	44	6	59	63	45
75°	8	8	1	13	14	9
85°	1	1	0	2	2	1
90°	0	0	0	0	0	



TEST NUMBER: P245514

CATALOG NUMBER: LSR8B10D010 EC8B10927 8LBDW0WH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	473.3	473.3	473.3	473.3	473.3	473.3	473.3	473.3	473.3	473.3	473.3
2.5°	474.5	473.8	474.5	474.5	474.9	474.3	474.5	474.9	474.3	474.3	474.3
5°	474.3	473.8	474.3	474.1	474.5	474.5	475.1	475.1	475.5	475.5	476.3
7.5°	470.2	469.2	470.2	471.0	471.6	472.6	473.8	474.9	475.9	476.8	478.1
10°	462.0	462.0	462.7	464.3	465.8	467.6	469.8	472.3	474.9	477.1	479.4
12.5°	451.7	450.9	452.5	454.5	456.8	459.4	463.0	466.8	470.8	475.3	478.8
15°	439.9	439.1	440.9	442.9	445.7	449.7	453.9	459.0	464.7	470.8	476.6
17.5°	427.8	427.6	429.3	432.1	434.4	438.6	444.2	450.2	456.8	464.7	472.3
20°	415.6	415.2	417.0	419.3	422.3	426.4	431.9	438.9	446.6	455.7	464.5
22.5°	402.8	403.0	404.4	407.0	409.5	413.8	419.5	426.6	435.2	444.9	454.7
25°	385.4	384.1	386.1	388.7	393.0	396.4	402.0	409.5	418.3	428.6	440.1
27.5°	360.2	360.0	361.8	364.0	367.8	372.0	378.1	385.9	395.2	406.5	417.8
30°	335.1	335.6	336.4	338.6	341.2	345.5	351.4	358.0	366.8	377.6	389.7
32.5°	318.0	318.0	319.0	320.5	322.3	324.6	328.8	333.7	340.4	348.0	356.7
35°	312.3	311.3	312.3	312.5	312.8	313.3	314.0	315.6	317.8	321.1	324.3
37.5°	309.7	309.0	309.0	308.0	306.8	305.2	303.2	300.9	298.5	295.2	292.7
40°	299.9	299.5	298.9	297.9	295.2	292.2	288.9	283.6	277.9	269.8	261.8
42.5°	281.1	280.6	280.3	278.3	275.8	272.4	268.5	263.0	255.7	245.5	233.9
45°	257.7	256.7	256.0	254.2	252.4	249.4	245.9	241.0	233.7	223.1	209.2
47.5°	230.6	230.2	229.8	229.2	227.4	225.6	223.3	219.4	212.7	202.7	188.4
50°	203.3	202.3	202.7	202.5	201.7	200.5	199.0	196.2	191.1	182.1	169.1
52.5°	171.8	171.8	171.6	172.4	172.6	172.4	172.6	169.5	165.3	158.5	147.5
55°	139.2	139.2	140.0	141.0	142.0	142.2	142.0	140.7	137.7	132.2	122.4
57.5°	108.6	108.0	109.6	111.0	112.0	113.1	112.3	111.3	109.6	105.0	97.4
60°	82.7	82.7	83.7	84.7	85.6	86.6	86.4	86.2	84.7	81.7	75.6
62.5°	60.8	61.1	61.1	61.8	62.8	63.8	64.6	63.8	63.1	61.1	57.0
65°	43.4	43.2	43.4	44.2	45.0	46.0	46.5	46.2	45.4	44.0	40.9
67.5°	29.1	28.9	29.9	30.2	30.6	31.6	31.4	31.6	31.4	30.2	27.7
70°	19.1	18.6	19.1	18.8	19.6	19.8	20.4	20.6	20.4	19.6	18.8
72.5°	11.8	11.6	11.8	12.0	12.3	12.6	13.0	13.0	12.8	12.3	11.2
75°	7.5	6.8	7.1	6.5	7.1	7.1	7.5	7.8	7.5	7.5	7.1
77.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.7	5.1	4.5	4.3
80°	2.2	2.2	2.5	2.5	2.5	2.8	2.5	2.5	2.5	2.8	2.0
82.5°	1.8	1.5	1.5	1.5	1.8	1.5	1.5	1.5	1.5	1.5	1.5
85°	0.8	1.0	0.8	0.4	0.8	0.8	1.0	0.8	0.8	0.8	1.0
87.5°	0.2	0.2	0.0	0.0	0.0	0.2	0.0	0.2	0.2	0.4	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: P245514

CATALOG NUMBER: LSR8B10D010 EC8B10927 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	473.3	473.3	473.3	473.3	473.3	473.3	473.3	473.3	473.3	473.3	473.3
2.5°	474.5	474.1	474.1	473.8	474.3	473.8	474.1	473.8	473.8	474.3	473.8
5°	476.3	476.6	476.1	475.9	476.6	476.6	476.6	476.1	476.1	476.3	476.1
7.5°	478.8	479.4	479.6	479.8	480.4	480.6	480.6	480.4	480.2	480.8	479.8
10°	481.6	482.4	483.9	484.6	485.9	485.9	486.3	486.3	485.9	486.3	486.1
12.5°	480.6	485.1	487.6	489.4	491.2	492.6	493.2	493.4	493.2	494.2	493.2
15°	482.4	486.1	490.2	493.2	496.5	498.2	498.7	500.7	501.2	501.4	500.0
17.5°	479.6	486.3	490.6	495.1	500.0	503.2	506.2	507.5	507.7	508.3	506.2
20°	473.3	480.8	487.4	493.9	499.4	504.4	506.9	510.5	509.5	511.5	508.7
22.5°	464.7	473.3	481.6	490.2	495.9	502.0	507.3	509.7	511.0	511.0	507.9
25°	451.2	461.2	470.2	479.1	487.9	495.1	501.2	505.0	505.7	505.5	502.0
27.5°	430.1	440.9	451.5	461.5	472.3	480.8	487.9	492.4	493.6	493.6	489.9
30°	401.0	412.5	422.8	434.9	446.0	455.5	465.3	469.2	471.6	471.6	467.3
32.5°	366.3	376.1	385.7	397.5	409.5	420.3	429.6	435.2	437.8	437.6	433.9
35°	328.6	333.3	340.7	349.4	360.2	370.3	379.3	384.6	389.4	389.1	385.7
37.5°	290.9	289.7	290.5	293.7	300.5	307.5	314.6	319.6	323.6	325.3	324.6
40°	254.0	247.5	241.2	239.0	239.4	241.9	245.7	249.4	254.0	256.3	257.3
42.5°	220.8	209.8	198.7	190.5	185.6	184.2	186.0	187.2	189.9	193.2	196.4
45°	194.2	179.3	164.8	152.0	144.0	139.2	138.2	139.2	140.7	144.0	148.3
47.5°	172.4	155.0	138.7	124.3	112.5	106.3	104.5	104.1	105.5	108.6	114.3
50°	153.0	135.7	117.6	101.0	88.6	81.7	79.1	78.1	79.9	82.1	87.4
52.5°	131.8	114.9	96.2	80.1	67.3	60.1	57.3	55.8	56.8	59.7	65.0
55°	109.0	93.1	76.4	59.7	47.5	40.7	37.5	36.4	37.5	40.7	46.0
57.5°	86.2	72.9	58.8	43.2	32.2	25.4	22.0	21.2	23.8	25.1	30.6
60°	67.3	56.5	44.4	31.6	22.0	16.9	13.6	12.8	14.1	16.3	20.8
62.5°	50.5	43.8	34.2	22.6	16.3	10.8	9.0	8.3	9.0	10.8	14.3
65°	36.7	31.4	23.8	16.5	11.0	8.0	6.1	5.5	6.3	7.5	10.6
67.5°	25.1	21.2	16.5	11.6	7.5	5.1	4.3	4.3	4.5	5.5	7.8
70°	16.3	13.8	10.6	7.5	5.1	3.7	3.3	2.8	3.3	4.0	5.3
72.5°	10.4	8.8	6.8	5.3	3.7	2.8	2.2	2.0	2.5	3.0	4.0
75°	6.3	4.7	3.5	2.8	2.0	2.0	2.0	1.0	1.2	2.0	2.5
77.5°	3.7	3.3	2.8	2.2	1.8	1.0	1.0	1.0	1.2	1.5	2.2
80°	2.0	1.8	1.2	1.2	1.0	0.8	1.0	0.8	0.4	1.2	1.5
82.5°	1.2	1.0	1.0	1.0	1.2	0.4	0.8	0.4	0.8	1.0	0.8
85°	0.8	0.8	0.8	0.4	1.2	0.4	0.4	0.2	0.2	0.4	0.4
87.5°	0.0	0.2	0.2	0.0	0.2	0.0	0.2	0.2	0.2	0.2	0.2
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: P245514

CATALOG NUMBER: LSR8B10D010 EC8B10927 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	473.3	473.3	473.3	473.3	473.3	473.3	473.3	473.3	473.3	473.3	473.3
2.5°	474.1	473.8	474.1	473.8	473.8	473.8	474.1	474.1	473.8	473.8	474.3
5°	476.1	476.1	476.1	475.9	475.5	475.5	476.1	476.1	475.3	476.1	476.1
7.5°	480.4	479.6	480.4	479.4	478.8	479.1	479.4	478.8	478.4	478.6	478.6
10°	485.9	485.1	485.1	484.3	483.6	483.1	482.6	481.4	480.2	479.8	478.8
12.5°	492.4	491.2	490.4	488.9	487.6	485.9	484.3	482.4	479.8	478.1	476.3
15°	498.9	496.9	495.1	492.6	489.9	486.9	483.6	480.4	476.3	472.8	469.8
17.5°	504.2	501.4	498.2	494.2	490.2	485.7	480.8	476.1	470.2	465.8	462.3
20°	505.9	502.0	497.7	492.4	487.1	480.8	474.9	468.6	462.0	457.2	453.3
22.5°	503.7	498.9	493.6	488.1	481.0	474.3	467.3	460.0	454.2	447.6	443.9
25°	497.5	491.6	485.9	479.4	472.6	465.1	457.5	450.0	442.9	439.4	434.6
27.5°	484.6	478.4	472.0	465.3	457.5	450.0	442.1	434.9	428.8	424.1	421.3
30°	462.0	454.7	447.4	440.1	433.4	425.6	418.3	412.3	406.2	402.4	399.7
32.5°	427.4	420.8	413.6	406.5	400.2	393.6	387.7	382.4	378.1	375.6	373.6
35°	380.6	374.1	368.6	363.5	358.2	355.5	351.7	348.8	347.0	345.9	345.7
37.5°	321.9	318.0	316.2	315.3	314.3	313.5	314.0	315.3	316.2	318.0	320.1
40°	259.0	262.2	263.2	266.8	270.1	274.4	279.1	284.6	289.1	295.0	298.9
42.5°	201.7	207.8	214.8	222.3	230.4	238.2	247.7	256.5	264.5	271.8	278.1
45°	155.0	164.2	174.8	185.6	196.4	207.8	219.4	230.2	239.6	247.5	254.0
47.5°	120.8	131.2	144.7	158.1	171.1	184.4	197.2	208.5	216.6	224.1	229.8
50°	95.7	107.6	122.4	137.7	152.0	166.0	179.7	190.1	198.2	204.3	208.5
52.5°	74.1	88.2	103.3	119.4	134.7	150.0	162.6	172.4	178.9	184.2	187.4
55°	55.2	69.1	85.2	101.7	117.3	132.2	144.0	152.5	158.3	161.3	163.0
57.5°	39.9	52.5	68.6	85.2	99.2	113.3	122.8	130.6	133.9	135.7	136.5
60°	29.1	40.7	55.0	69.3	82.7	93.9	102.3	107.6	110.0	111.0	110.8
62.5°	21.4	31.4	43.8	55.8	66.6	75.8	82.4	86.0	87.2	87.6	87.0
65°	16.3	24.1	34.6	44.0	52.3	59.1	63.8	66.0	66.8	66.6	66.0
67.5°	12.0	18.1	25.9	33.0	38.9	44.2	46.7	48.7	49.3	48.5	47.7
70°	8.5	13.3	18.8	23.6	28.1	31.2	33.9	34.2	34.2	33.9	33.4
72.5°	6.1	9.3	12.8	16.1	18.8	21.2	22.0	22.8	22.6	22.4	21.8
75°	4.0	5.7	9.3	10.0	12.6	13.3	14.3	14.3	14.5	13.8	13.8
77.5°	2.5	4.0	5.5	6.5	7.5	8.5	9.0	9.0	9.3	9.0	9.0
80°	1.5	2.5	3.0	4.5	4.5	5.3	5.5	5.7	5.3	6.1	5.3
82.5°	1.0	1.5	2.2	2.2	2.8	3.3	3.3	3.5	3.5	3.3	3.3
85°	0.8	1.0	1.2	1.5	1.5	1.8	1.5	1.5	1.8	2.0	1.8
87.5°	0.2	0.4	0.2	0.4	0.4	1.0	0.8	0.8	0.8	1.0	1.0
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: P245514

CATALOG NUMBER: LSR8B10D010 EC8B10927 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	473.3	473.3	473.3	473.3
2.5°	473.8	474.1	473.8	473.8
5°	476.1	475.9	476.1	475.5
7.5°	477.8	477.8	477.6	477.6
10°	477.8	476.8	476.8	476.8
12.5°	474.1	472.8	472.0	471.6
15°	467.6	465.3	464.3	464.1
17.5°	459.0	457.0	455.7	455.0
20°	449.2	447.2	445.7	446.0
22.5°	440.7	438.4	437.4	436.8
25°	432.1	429.3	428.6	428.1
27.5°	418.3	416.8	416.0	415.2
30°	397.2	396.4	395.2	396.9
32.5°	372.8	371.6	370.6	371.4
35°	345.9	345.2	345.9	345.5
37.5°	321.3	322.1	323.1	323.6
40°	302.0	304.8	305.8	306.2
42.5°	282.6	285.9	287.9	289.1
45°	258.8	262.0	264.3	265.8
47.5°	234.1	236.9	239.2	239.0
50°	211.8	213.3	214.3	215.3
52.5°	189.2	189.2	189.5	189.5
55°	163.6	163.0	162.8	163.0
57.5°	135.5	134.9	134.7	133.9
60°	109.8	108.2	107.3	107.3
62.5°	86.0	84.1	83.4	83.1
65°	64.6	64.4	62.8	62.6
67.5°	46.7	45.7	44.8	45.0
70°	33.0	31.4	31.4	30.9
72.5°	21.4	20.6	20.4	20.4
75°	13.3	13.3	12.8	13.8
77.5°	8.8	8.8	8.5	8.8
80°	5.3	5.3	5.3	5.1
82.5°	3.3	3.5	3.3	3.3
85°	1.8	2.0	1.5	2.2
87.5°	1.0	1.2	1.0	1.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)