

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: P245022

Luminaire Tested: **LSR8B10D010 EC8B10827 8LBDW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245022
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 EC8B10827 8LBDW0WMH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1079.0 lumens
Efficiency: N/A
Efficacy: 105.8 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

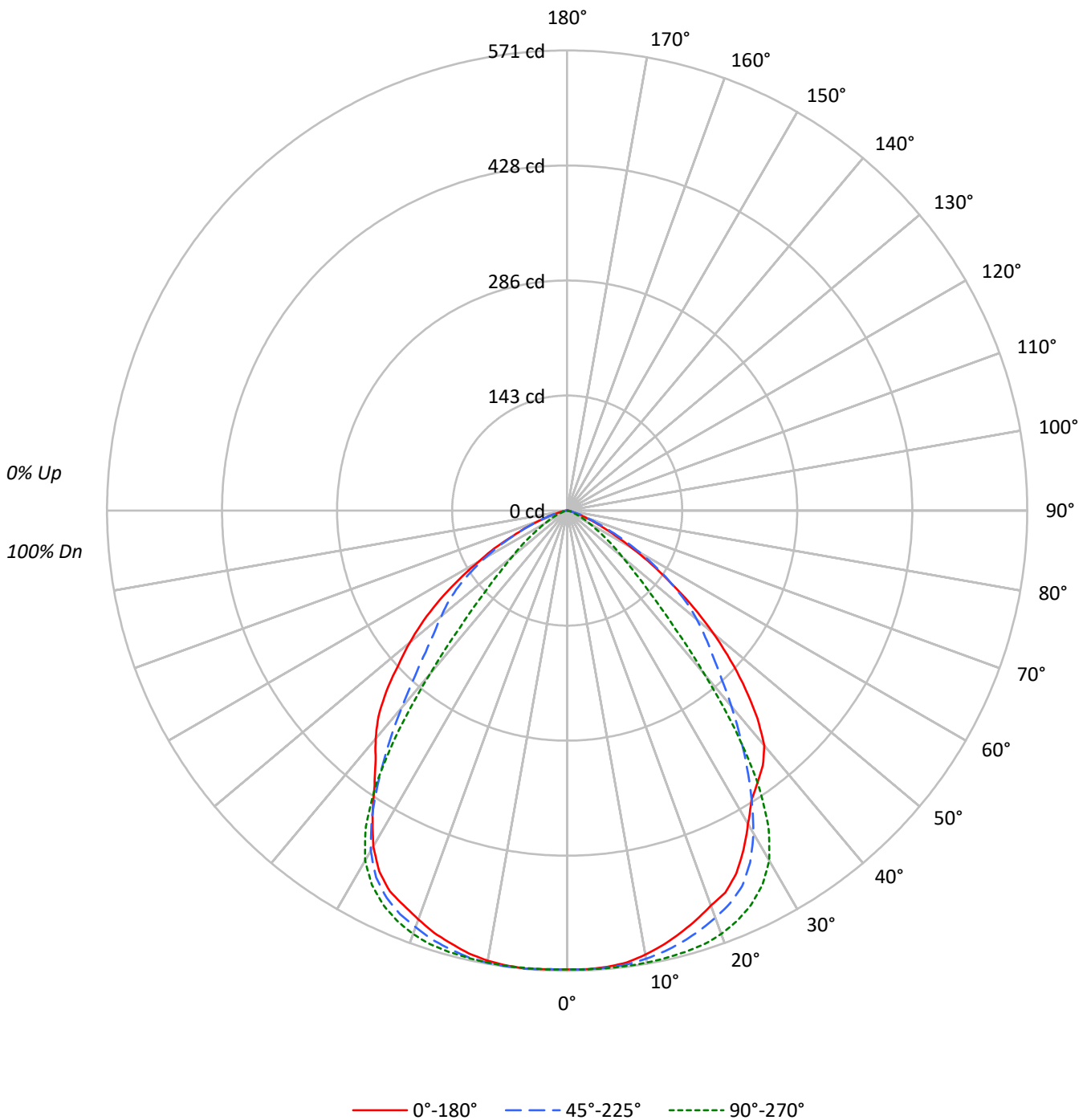
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P245022

CATALOG NUMBER: LSR8B10D010 EC8B10827 8LBDW0WMH

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	52	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°	17555	17555	17555
5°	17594	17641	17659
10°	17519	17835	17760
15°	17325	18098	17756
20°	17116	18350	17710
25°	16896	18373	17727
30°	15984	17857	17127
35°	15506	15517	15679
40°	15317	10675	14886
45°	13645	6411	13833
50°	11346	4265	12228
55°	8510	2941	10365
60°	5766	1961	7820
65°	3480	1270	5370
70°	1929	685	3309
75°	870	286	1716
80°	764	320	1190
85°	849	425	1203



TEST NUMBER: P245022

CATALOG NUMBER: LSR8B10D010 EC8B10827 8LBDW0WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.3	5.0
10°-20°	157.8	14.6
20°-30°	239.5	22.2
30°-40°	251.5	23.3
40°-50°	188.6	17.5
50°-60°	121.0	11.2
60°-70°	51.8	4.8
70°-80°	12.2	1.1
80°-90°	2.3	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°	451.6	41.9
0°-40°	703.1	65.2
0°-60°	1012.7	93.9
0°-90°	1079.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1079.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	569	569	569	569	569	
5°	568	569	570	571	570	54
15°	543	554	567	563	556	153
25°	497	514	540	530	521	227
35°	412	389	412	407	416	259
45°	313	256	147	248	317	240
55°	158	158	55	165	193	144
65°	48	56	17	72	74	51
75°	7	9	2	15	14	11
85°	2	2	1	2	3	3
90°	0	0	0	0	0	



TEST NUMBER: P245022

CATALOG NUMBER: LSR8B10D010 EC8B10827 8LBDW0WMH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3
2.5°	569.6	570.2	569.9	569.9	569.6	569.9	569.9	570.5	570.5	569.9	569.6
5°	568.4	569.0	569.0	568.4	568.4	569.9	569.0	569.6	569.6	569.3	569.3
7.5°	565.6	565.6	566.9	565.9	565.9	566.9	566.6	567.2	567.8	568.1	568.1
10°	559.5	560.1	560.4	560.4	560.7	561.7	562.3	563.5	564.1	564.7	565.0
12.5°	551.9	552.8	553.1	552.8	553.7	554.9	556.5	558.0	558.9	560.1	561.1
15°	542.7	542.7	543.3	544.2	544.9	546.7	548.2	550.0	552.5	554.0	555.6
17.5°	532.6	533.2	534.2	534.2	535.4	538.4	539.4	542.1	544.9	546.4	549.4
20°	521.6	522.2	523.2	523.8	525.3	527.7	529.6	532.0	535.1	537.8	540.9
22.5°	513.1	511.9	512.5	513.1	514.6	516.7	518.9	521.9	525.0	527.7	530.8
25°	496.6	496.9	497.8	498.4	500.2	502.1	504.5	508.2	510.9	514.0	517.4
27.5°	474.3	474.6	476.1	476.1	477.6	480.7	482.2	485.3	488.9	492.0	496.0
30°	448.9	449.5	449.5	450.7	451.6	453.2	454.7	457.8	459.6	462.3	467.9
32.5°	425.7	426.3	426.0	425.7	424.8	424.5	424.1	424.8	425.4	426.3	428.4
35°	411.9	410.4	409.2	407.0	404.6	401.5	398.8	395.1	391.8	389.0	386.0
37.5°	398.8	398.5	396.6	393.6	388.7	383.2	376.8	368.8	360.9	352.3	344.1
40°	380.5	379.5	378.0	373.7	368.2	361.5	353.0	343.2	330.3	317.2	303.8
42.5°	349.3	349.6	347.8	344.4	339.2	332.8	323.9	313.2	299.5	283.9	266.5
45°	312.9	312.9	312.3	309.6	305.9	300.7	294.0	285.1	271.7	255.8	237.1
47.5°	275.0	275.3	274.4	273.8	272.3	268.9	264.0	257.3	247.8	232.5	213.9
50°	236.5	236.5	238.0	237.7	237.7	236.5	234.4	230.4	222.2	209.9	192.5
52.5°	198.0	198.6	199.5	200.8	202.3	204.7	202.3	200.5	195.3	185.8	170.8
55°	158.3	158.9	160.4	162.6	164.4	166.9	167.5	167.5	164.7	158.3	147.0
57.5°	124.4	123.5	124.7	126.5	129.0	131.4	133.2	135.4	135.1	130.8	121.6
60°	93.5	93.8	94.7	96.6	98.4	100.5	103.0	104.8	105.7	103.6	97.8
62.5°	68.1	68.1	69.4	71.2	72.1	75.2	76.7	77.6	78.5	78.2	74.6
65°	47.7	48.3	48.9	49.8	50.7	52.6	53.5	55.3	55.9	56.2	53.5
67.5°	33.6	32.7	33.3	33.9	34.8	36.1	37.9	37.9	38.8	38.8	37.0
70°	21.4	21.4	21.7	22.6	23.2	23.5	24.1	24.7	25.7	25.4	25.4
72.5°	14.4	14.1	14.4	14.7	15.0	15.9	15.9	16.2	16.8	17.1	15.9
75°	7.3	7.6	8.2	7.9	8.9	8.2	8.6	9.5	9.2	8.6	8.6
77.5°	6.1	6.1	6.1	5.8	6.4	6.4	6.1	6.7	6.4	6.4	6.1
80°	4.3	4.6	4.3	4.0	4.3	4.0	4.0	4.0	4.0	4.0	3.7
82.5°	3.4	2.8	3.1	2.8	3.1	3.1	2.8	2.4	2.4	2.8	2.4
85°	2.4	1.8	2.1	2.1	1.8	1.8	1.8	1.8	1.8	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: P245022

CATALOG NUMBER: LSR8B10D010 EC8B10827 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3
2.5°	570.2	569.9	570.5	570.2	570.2	569.9	570.2	569.9	570.5	569.3	569.6
5°	570.2	569.6	569.9	570.2	570.5	569.9	569.9	569.9	570.5	569.9	570.2
7.5°	569.0	568.7	569.6	570.2	569.9	569.6	570.2	569.9	570.5	570.2	570.8
10°	566.6	566.9	567.5	568.4	568.7	569.0	569.6	569.6	570.5	569.3	569.9
12.5°	562.9	564.1	565.6	566.2	567.5	567.5	568.1	568.4	569.0	568.7	569.6
15°	558.3	559.8	561.7	563.2	564.7	565.6	566.6	566.9	567.8	566.9	567.2
17.5°	552.8	554.6	557.4	559.2	561.7	562.6	563.8	564.4	565.3	564.7	565.0
20°	545.2	547.3	550.4	553.1	554.6	556.8	558.3	559.2	559.8	559.2	559.5
22.5°	534.5	537.5	541.5	543.6	546.7	548.5	548.8	551.0	552.5	551.0	551.6
25°	521.9	525.0	528.1	532.6	535.4	537.5	539.7	540.0	541.5	541.2	540.9
27.5°	501.2	505.1	510.3	514.0	517.7	521.0	523.5	524.1	525.6	525.0	525.3
30°	472.7	477.0	481.9	487.7	492.9	496.3	499.3	501.5	503.0	502.1	501.8
32.5°	432.4	436.7	441.9	447.7	453.8	458.7	462.3	465.1	466.9	466.3	464.8
35°	386.3	387.5	390.8	395.4	400.6	405.8	409.2	412.2	414.4	415.0	415.0
37.5°	338.9	334.9	332.5	332.5	335.5	337.7	340.7	342.6	345.9	347.1	348.1
40°	293.1	283.9	275.3	268.9	264.6	264.3	264.3	265.2	268.3	272.3	275.9
42.5°	252.1	237.4	224.3	212.4	203.8	198.9	196.8	197.1	199.5	203.2	209.3
45°	219.4	201.1	184.6	170.2	158.6	151.0	147.3	147.0	148.8	153.1	159.8
47.5°	194.0	174.5	155.8	139.3	126.8	118.6	114.3	113.1	114.3	118.3	126.2
50°	173.0	152.8	133.5	116.4	103.0	94.4	90.5	88.9	90.5	93.8	101.8
52.5°	153.4	132.6	114.6	98.1	83.7	76.4	72.1	71.2	72.1	76.1	82.5
55°	130.8	113.1	95.3	78.8	66.3	59.0	55.6	54.7	55.6	59.3	66.0
57.5°	108.5	93.2	77.6	62.6	52.0	45.5	42.5	41.3	43.4	45.8	53.8
60°	87.7	75.5	62.3	49.2	40.3	34.5	32.1	31.8	32.4	35.4	40.9
62.5°	68.8	58.7	48.3	37.6	30.3	27.8	24.7	24.5	25.1	26.9	31.2
65°	49.5	43.1	35.1	27.5	21.7	18.3	17.1	17.4	18.0	19.3	23.2
67.5°	34.5	29.9	24.5	19.3	15.0	13.4	12.2	11.9	12.2	14.4	16.5
70°	23.2	20.5	16.5	14.7	10.4	8.2	8.6	7.6	8.9	8.9	10.7
72.5°	15.3	13.4	11.0	8.6	7.3	5.8	5.8	5.5	6.1	6.4	7.9
75°	7.9	6.1	6.1	4.3	3.1	1.5	2.8	2.4	2.1	2.4	3.1
77.5°	5.5	4.6	4.3	3.4	3.1	2.4	2.4	2.4	2.4	2.8	3.1
80°	3.4	3.4	2.4	2.1	1.8	1.5	1.8	1.8	1.8	1.8	2.1
82.5°	2.1	1.8	1.8	1.5	1.5	1.2	1.2	1.2	1.2	1.2	1.8
85°	1.8	1.2	1.2	0.9	1.2	2.1	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: P245022

CATALOG NUMBER: LSR8B10D010 EC8B10827 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3
2.5°	570.2	570.5	570.5	570.2	570.2	569.6	570.8	569.9	570.2	571.4	570.5
5°	570.8	571.1	571.1	570.8	570.8	570.8	571.1	571.1	570.8	570.5	571.1
7.5°	572.1	571.7	571.7	571.1	571.1	570.5	571.1	570.2	570.8	570.2	571.1
10°	570.5	570.8	570.5	570.2	570.2	569.9	569.9	569.0	569.3	568.4	569.0
12.5°	569.6	569.3	569.3	568.7	568.1	567.5	567.2	566.2	566.2	564.1	565.0
15°	567.2	567.5	566.6	565.3	564.7	563.2	562.6	561.4	560.1	558.6	558.9
17.5°	565.0	564.1	562.9	561.7	559.2	558.0	556.8	554.9	554.3	552.5	551.9
20°	558.6	558.0	556.5	554.3	552.8	550.0	548.8	547.0	545.5	543.6	542.7
22.5°	550.4	549.7	547.9	545.8	543.3	542.1	540.9	537.5	536.0	534.2	533.9
25°	540.0	539.0	537.2	534.8	533.5	530.2	529.0	526.5	525.9	524.1	523.8
27.5°	524.1	522.9	520.7	517.7	515.5	513.4	512.2	510.3	509.7	507.9	507.6
30°	500.2	498.7	494.4	493.2	489.5	487.4	487.4	485.0	485.3	484.0	484.0
32.5°	462.7	460.2	456.8	454.4	452.0	450.7	450.7	449.8	450.4	450.4	451.0
35°	412.8	409.5	407.6	406.1	406.1	407.3	411.0	411.9	413.8	415.3	416.5
37.5°	349.0	348.7	350.8	352.6	357.2	362.4	368.8	374.3	379.5	383.2	386.9
40°	279.9	287.6	293.7	302.2	309.2	319.3	330.9	340.4	349.3	355.7	362.4
42.5°	218.5	228.3	241.1	253.6	266.2	279.9	295.2	308.3	319.9	328.8	335.8
45°	170.2	183.7	199.2	215.1	231.3	248.4	264.3	277.8	290.0	299.2	306.2
47.5°	137.2	151.9	169.6	187.0	205.4	223.4	241.1	252.7	262.8	270.1	276.6
50°	113.4	129.0	147.6	167.5	185.8	203.8	219.1	230.4	238.7	245.1	249.0
52.5°	94.7	111.2	131.1	151.0	169.3	185.8	199.5	208.1	214.8	219.4	223.1
55°	78.2	94.1	112.8	131.4	149.4	165.0	176.3	182.7	187.9	190.7	192.8
57.5°	63.9	78.5	95.6	112.8	128.3	141.2	150.0	156.5	158.9	161.0	160.7
60°	50.1	63.9	79.5	94.1	107.6	118.0	124.4	128.0	129.9	130.8	130.2
62.5°	39.4	52.0	63.9	76.7	86.5	95.3	101.5	101.5	102.4	102.7	103.6
65°	29.3	38.8	49.2	58.7	66.6	72.4	75.8	76.7	77.9	77.6	77.0
67.5°	21.7	28.7	36.4	43.4	48.9	52.6	55.0	57.1	56.8	56.2	55.9
70°	15.0	19.6	26.3	30.6	34.5	38.2	38.8	39.1	39.4	39.7	39.1
72.5°	10.4	13.8	17.4	21.1	23.5	25.1	26.6	26.9	26.9	26.9	26.6
75°	5.2	7.0	10.4	11.9	14.1	14.7	15.9	15.9	16.8	15.6	15.3
77.5°	4.6	5.5	7.3	8.6	9.5	10.4	10.7	11.6	11.3	10.7	11.0
80°	2.8	3.4	4.6	5.2	6.4	6.7	7.0	7.3	7.0	7.3	7.3
82.5°	2.1	2.4	3.1	3.1	4.0	4.0	4.3	4.3	4.6	4.6	4.6
85°	1.2	2.1	1.8	3.7	2.4	2.4	3.1	3.7	3.1	3.1	3.7
87.5°	1.2	1.2	0.9	1.2	1.2	1.2	1.5	1.8	1.8	2.1	1.8
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: P245022

CATALOG NUMBER: LSR8B10D010 EC8B10827 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	569.3	569.3	569.3	569.3
2.5°	570.2	570.8	569.9	569.6
5°	571.1	571.1	570.5	570.5
7.5°	571.1	571.1	570.2	569.6
10°	568.7	568.7	567.8	567.2
12.5°	564.1	564.1	563.8	562.9
15°	558.3	558.3	557.1	556.2
17.5°	550.4	551.0	549.4	549.4
20°	541.8	541.5	540.3	539.7
22.5°	532.9	532.3	532.0	530.2
25°	523.5	522.9	521.9	521.0
27.5°	507.3	507.0	506.0	504.8
30°	482.5	482.2	481.0	481.0
32.5°	450.4	450.1	448.9	449.2
35°	417.1	418.3	417.7	416.5
37.5°	389.3	390.2	390.8	390.2
40°	366.1	368.8	369.1	369.8
42.5°	341.3	345.0	346.2	346.8
45°	311.7	315.1	317.8	317.2
47.5°	281.4	283.9	286.3	284.5
50°	252.4	253.9	254.9	254.9
52.5°	224.9	224.9	224.6	224.9
55°	193.4	193.4	192.2	192.8
57.5°	160.4	161.0	160.1	158.6
60°	129.9	128.3	127.7	126.8
62.5°	101.2	101.2	99.0	101.8
65°	75.8	74.9	73.9	73.6
67.5°	55.0	54.7	53.8	53.5
70°	38.8	37.6	37.3	36.7
72.5°	26.0	26.0	25.4	25.4
75°	15.9	14.4	14.1	14.4
77.5°	11.0	10.7	10.7	10.4
80°	7.3	7.0	7.6	6.7
82.5°	4.6	4.9	4.6	4.9
85°	3.1	3.7	3.4	3.4
87.5°	1.8	1.8	1.8	1.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)