

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: P245467

Luminaire Tested: **LSR8B15D010 EC8B15835 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245467
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: LSR8B15D010 EC8B15835 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1578.0 lumens
Efficiency: N/A
Efficacy: 109.6 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

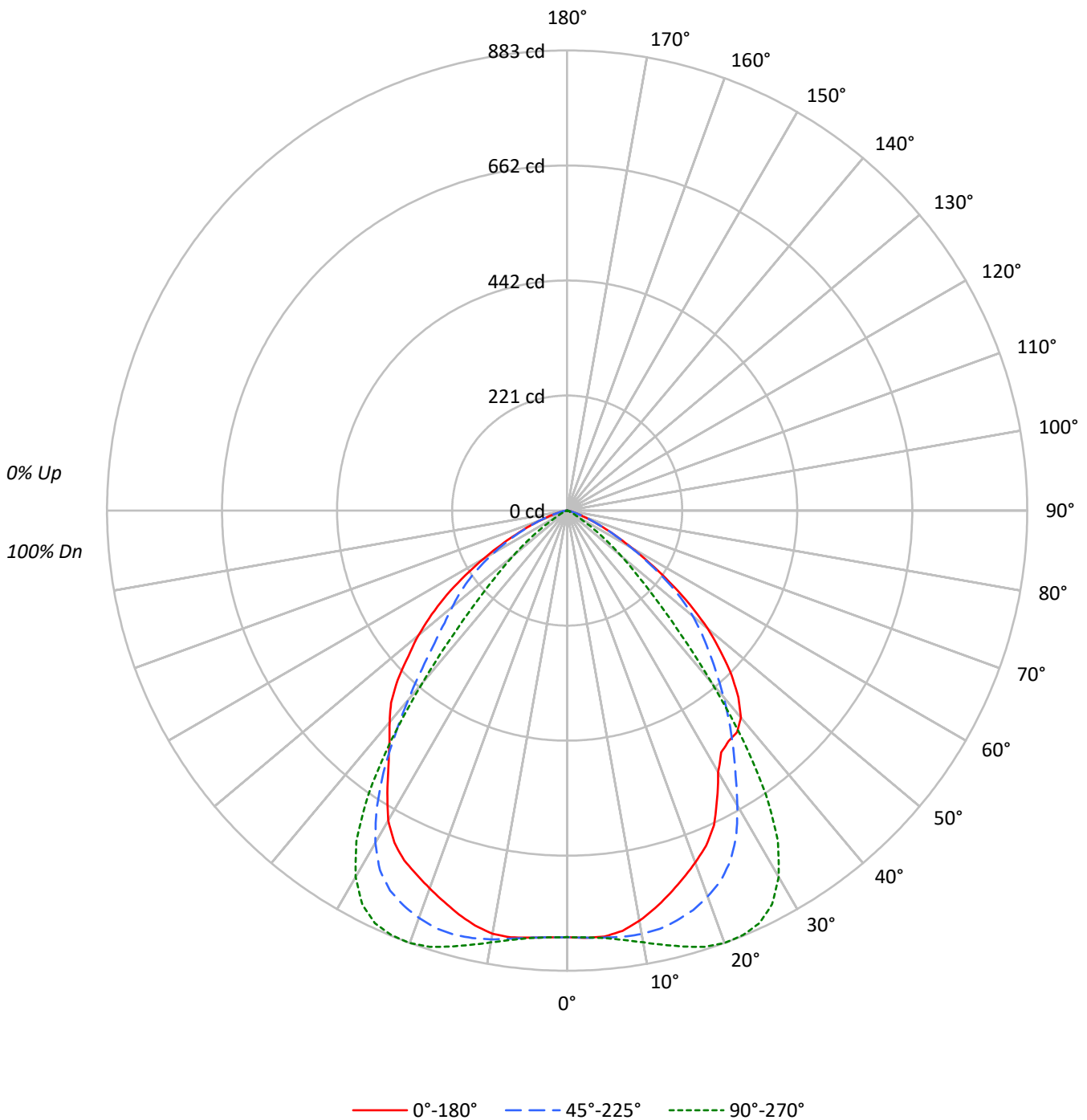
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P245467

CATALOG NUMBER: LSR8B15D010 EC8B15835 8LBDW0WH

Luminous Intensity Polar Plot





TEST NUMBER: P245467

CATALOG NUMBER: LSR8B15D010 EC8B15835 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	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	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	25243	25243	25243
5°	25395	25488	25460
10°	25021	26340	25823
15°	24288	27646	25619
20°	23584	28973	25310
25°	22677	29717	25191
30°	20638	28902	24444
35°	20332	25041	22489
40°	20884	17370	21323
45°	19441	10497	20047
50°	16862	6481	17865
55°	12940	3387	15161
60°	8819	1369	11440
65°	5487	700	7895
70°	2975	433	4815
75°	1549	203	2848
80°	693	231	1545
85°	460	142	1380



TEST NUMBER: P245467

CATALOG NUMBER: LSR8B15D010 EC8B15835 8LBDW0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.7	5.0
10°-20°	233.2	14.8
20°-30°	355.8	22.5
30°-40°	371.3	23.5
40°-50°	278.9	17.7
50°-60°	171.6	10.9
60°-70°	69.8	4.4
70°-80°	16.4	1.0
80°-90°	2.3	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°	667.7	42.3
0°-40°	1039.0	65.8
0°-60°	1489.5	94.4
0°-90°	1578.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1578.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	819	819	819	819	819	
5°	820	822	823	822	822	78
15°	761	814	866	842	802	214
25°	666	741	873	804	740	303
35°	540	555	665	615	597	341
45°	446	386	241	359	460	340
55°	241	229	63	229	282	216
65°	75	76	10	102	108	78
75°	13	13	2	23	24	16
85°	1	1	0	3	4	2
90°	0	0	0	0	0	



TEST NUMBER: P245467

CATALOG NUMBER: LSR8B15D010 EC8B15835 8LBDW0WH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	818.6	818.6	818.6	818.6	818.6	818.6	818.6	818.6	818.6	818.6	818.6
2.5°	820.8	819.5	820.8	820.8	821.2	820.4	820.8	821.2	820.4	820.4	820.4
5°	820.4	819.5	820.4	819.9	820.8	820.8	821.7	821.7	822.5	822.5	823.8
7.5°	813.4	811.7	813.4	814.7	815.6	817.3	819.5	821.2	823.0	824.7	826.9
10°	799.1	799.1	800.4	803.0	805.6	808.6	812.5	816.9	821.2	825.1	829.0
12.5°	781.3	779.9	782.5	786.0	789.9	794.7	800.8	807.3	814.3	822.1	828.2
15°	760.8	759.5	762.6	766.0	770.8	777.8	785.2	793.8	803.8	814.3	824.3
17.5°	740.0	739.5	742.6	747.4	751.3	758.6	768.2	778.6	789.9	803.8	816.9
20°	718.7	718.2	721.3	725.2	730.4	737.4	746.9	759.1	772.6	788.2	803.4
22.5°	696.5	697.0	699.6	703.9	708.3	715.6	725.6	737.8	752.6	769.5	786.5
25°	666.5	664.4	667.8	672.2	679.6	685.7	695.2	708.3	723.5	741.3	761.3
27.5°	623.1	622.6	625.7	629.6	636.1	643.5	653.9	667.4	683.5	703.0	722.6
30°	579.6	580.5	581.8	585.7	590.1	597.4	607.9	619.2	634.4	653.1	673.9
32.5°	550.1	550.1	551.8	554.4	557.5	561.4	568.8	577.0	588.8	601.8	617.0
35°	540.1	538.4	540.1	540.5	541.0	541.8	543.1	545.7	549.6	555.3	561.0
37.5°	535.8	534.4	534.4	532.7	530.5	527.9	524.5	520.5	516.2	510.5	506.2
40°	518.8	517.9	517.1	515.3	510.5	505.3	499.7	490.6	480.6	466.7	452.8
42.5°	486.2	485.3	484.9	481.4	477.1	471.0	464.5	454.9	442.3	424.5	404.5
45°	445.8	444.1	442.8	439.7	436.7	431.5	425.4	416.7	404.1	385.8	361.9
47.5°	398.9	398.0	397.6	396.3	393.2	390.2	386.3	379.3	368.0	350.6	325.9
50°	351.5	349.8	350.6	350.2	348.9	346.7	344.1	339.4	330.7	315.0	292.4
52.5°	297.2	297.2	296.8	298.1	298.5	298.1	298.5	293.3	285.9	274.2	255.1
55°	240.7	240.7	242.0	243.8	245.5	245.9	245.5	243.3	238.1	228.6	211.6
57.5°	187.7	186.8	189.4	192.1	193.8	195.5	194.2	192.5	189.4	181.6	168.6
60°	143.0	143.0	144.7	146.4	148.2	149.9	149.5	149.0	146.4	141.2	130.8
62.5°	105.1	105.6	105.6	106.9	108.6	110.4	111.7	110.4	109.1	105.6	98.6
65°	75.2	74.7	75.2	76.5	77.8	79.5	80.4	80.0	78.6	76.0	70.8
67.5°	50.4	50.0	51.7	52.1	53.0	54.8	54.3	54.8	54.3	52.1	47.8
70°	33.0	32.2	33.0	32.6	33.9	34.3	35.2	35.6	35.2	33.9	32.6
72.5°	20.4	20.0	20.4	20.9	21.3	21.7	22.6	22.6	22.2	21.3	19.6
75°	13.0	11.7	12.2	11.3	12.2	12.2	13.0	13.5	13.0	13.0	12.2
77.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	8.3	8.7	7.8	7.4
80°	3.9	3.9	4.3	4.3	4.3	4.8	4.3	4.3	4.3	4.8	3.5
82.5°	3.0	2.6	2.6	2.6	3.0	2.6	2.6	2.6	2.6	2.6	2.6
85°	1.3	1.7	1.3	0.9	1.3	1.3	1.7	1.3	1.3	1.3	1.7
87.5°	0.4	0.4	0.0	0.0	0.0	0.4	0.0	0.4	0.4	0.9	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: P245467

CATALOG NUMBER: LSR8B15D010 EC8B15835 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	818.6	818.6	818.6	818.6	818.6	818.6	818.6	818.6	818.6	818.6	818.6
2.5°	820.8	819.9	819.9	819.5	820.4	819.5	819.9	819.5	819.5	820.4	819.5
5°	823.8	824.3	823.4	823.0	824.3	824.3	824.3	823.4	823.4	823.8	823.4
7.5°	828.2	829.0	829.5	829.9	830.8	831.2	831.2	830.8	830.3	831.7	829.9
10°	833.0	834.3	836.9	838.2	840.3	840.3	841.2	841.2	840.3	841.2	840.8
12.5°	831.2	839.0	843.4	846.4	849.5	852.1	852.9	853.4	852.9	854.7	852.9
15°	834.3	840.8	847.7	852.9	858.6	861.6	862.5	866.0	866.8	867.3	864.7
17.5°	829.5	841.2	848.6	856.4	864.7	870.3	875.5	877.7	878.1	879.0	875.5
20°	818.6	831.7	842.9	854.2	863.8	872.5	876.8	882.9	881.2	884.7	879.9
22.5°	803.8	818.6	833.0	847.7	857.7	868.2	877.3	881.6	883.8	883.8	878.6
25°	780.4	797.8	813.4	828.6	843.8	856.4	866.8	873.4	874.7	874.2	868.2
27.5°	743.9	762.6	780.8	798.2	816.9	831.7	843.8	851.6	853.8	853.8	847.3
30°	693.5	713.5	731.3	752.1	771.3	787.8	804.7	811.7	815.6	815.6	808.2
32.5°	633.5	650.5	667.0	687.4	708.3	726.9	743.0	752.6	757.4	756.9	750.4
35°	568.3	576.6	589.2	604.4	623.1	640.5	656.1	665.2	673.5	673.1	667.0
37.5°	503.2	501.0	502.3	507.9	519.7	531.8	544.0	552.7	559.6	562.7	561.4
40°	439.3	428.0	417.1	413.2	414.1	418.4	424.9	431.5	439.3	443.2	444.9
42.5°	381.9	362.8	343.7	329.4	321.1	318.5	321.5	323.7	328.5	334.1	339.8
45°	335.9	310.2	285.0	262.9	249.0	240.7	239.0	240.7	243.3	249.0	256.4
47.5°	298.1	268.1	239.9	215.1	194.7	183.8	180.8	179.9	182.5	187.7	197.7
50°	264.6	234.6	203.4	174.7	153.4	141.2	136.9	135.1	138.2	142.1	151.2
52.5°	228.1	198.6	166.4	138.6	116.4	103.9	99.1	96.5	98.2	103.4	112.5
55°	188.6	161.2	132.1	103.4	82.1	70.4	64.7	63.0	64.7	70.4	79.5
57.5°	149.0	126.0	101.7	74.7	55.6	43.9	38.2	36.5	41.3	43.5	53.0
60°	116.4	97.8	76.9	54.8	38.2	29.1	23.5	22.2	24.3	28.2	36.1
62.5°	87.3	75.6	59.1	39.1	28.2	18.7	15.6	14.3	15.6	18.7	24.8
65°	63.4	54.3	41.3	28.7	19.1	13.9	10.4	9.6	10.9	13.0	18.3
67.5°	43.5	36.5	28.7	20.0	13.0	8.7	7.4	7.4	7.8	9.6	13.5
70°	28.2	23.9	18.3	13.0	8.7	6.5	5.6	4.8	5.6	7.0	9.1
72.5°	17.8	15.2	11.7	9.1	6.5	4.8	3.9	3.5	4.3	5.2	7.0
75°	10.9	8.3	6.1	4.8	3.5	3.5	3.5	1.7	2.2	3.5	4.3
77.5°	6.5	5.6	4.8	3.9	3.0	1.7	1.7	1.7	2.2	2.6	3.9
80°	3.5	3.0	2.2	2.2	1.7	1.3	1.7	1.3	0.9	2.2	2.6
82.5°	2.2	1.7	1.7	1.7	2.2	0.9	1.3	0.9	1.3	1.7	1.3
85°	1.3	1.3	1.3	0.9	2.2	0.9	0.9	0.4	0.4	0.9	0.9
87.5°	0.0	0.4	0.4	0.0	0.4	0.0	0.4	0.4	0.4	0.4	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: P245467

CATALOG NUMBER: LSR8B15D010 EC8B15835 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	818.6	818.6	818.6	818.6	818.6	818.6	818.6	818.6	818.6	818.6	818.6
2.5°	819.9	819.5	819.9	819.5	819.5	819.5	819.9	819.9	819.5	819.5	820.4
5°	823.4	823.4	823.4	823.0	822.5	822.5	823.4	823.4	822.1	823.4	823.4
7.5°	830.8	829.5	830.8	829.0	828.2	828.6	829.0	828.2	827.3	827.7	827.7
10°	840.3	839.0	839.0	837.7	836.4	835.6	834.7	832.5	830.3	829.9	828.2
12.5°	851.6	849.5	848.2	845.6	843.4	840.3	837.7	834.3	829.9	826.9	823.8
15°	862.9	859.5	856.4	852.1	847.3	842.1	836.4	830.8	823.8	817.7	812.5
17.5°	872.1	867.3	861.6	854.7	847.7	839.9	831.7	823.4	813.4	805.6	799.5
20°	875.1	868.2	860.8	851.6	842.5	831.7	821.2	810.4	799.1	790.8	783.9
22.5°	871.2	862.9	853.8	844.3	832.1	820.4	808.2	795.6	785.6	774.3	767.8
25°	860.3	850.3	840.3	829.0	817.3	804.3	791.2	778.2	766.0	760.0	751.7
27.5°	838.2	827.3	816.4	804.7	791.2	778.2	764.7	752.1	741.7	733.5	728.7
30°	799.1	786.5	773.9	761.3	749.5	736.1	723.5	713.0	702.6	696.1	691.3
32.5°	739.1	727.8	715.2	703.0	692.2	680.9	670.4	661.3	653.9	649.6	646.1
35°	658.3	647.0	637.4	628.7	619.6	614.8	608.3	603.1	600.1	598.3	597.9
37.5°	556.6	550.1	547.0	545.3	543.6	542.3	543.1	545.3	547.0	550.1	553.6
40°	448.0	453.6	455.4	461.4	467.1	474.5	482.7	492.3	500.1	510.1	517.1
42.5°	348.9	359.3	371.5	384.5	398.4	411.9	428.4	443.6	457.5	470.1	481.0
45°	268.1	284.2	302.4	321.1	339.8	359.3	379.3	398.0	414.5	428.0	439.3
47.5°	209.0	226.8	250.3	273.3	295.9	318.9	341.1	360.6	374.5	387.6	397.6
50°	165.5	186.0	211.6	238.1	262.9	287.2	310.7	328.9	342.8	353.3	360.6
52.5°	128.2	152.5	178.6	206.4	232.9	259.4	281.1	298.1	309.4	318.5	324.1
55°	95.6	119.5	147.3	176.0	202.9	228.6	249.0	263.8	273.7	279.0	282.0
57.5°	69.1	90.8	118.6	147.3	171.6	196.0	212.5	225.9	231.6	234.6	235.9
60°	50.4	70.4	95.2	119.9	143.0	162.5	176.8	186.0	190.3	192.1	191.6
62.5°	36.9	54.3	75.6	96.5	115.1	131.2	142.5	148.6	150.8	151.6	150.3
65°	28.2	41.7	60.0	76.0	90.4	102.1	110.4	114.3	115.6	115.1	114.3
67.5°	20.9	31.3	44.8	56.9	67.4	76.5	80.8	84.3	85.2	83.9	82.6
70°	14.8	23.0	32.6	40.8	48.7	53.9	58.7	59.1	59.1	58.7	57.8
72.5°	10.4	16.1	22.2	27.8	32.6	36.5	38.2	39.5	39.1	38.7	37.8
75°	7.0	10.0	16.1	17.4	21.7	23.0	24.8	24.8	25.2	23.9	23.9
77.5°	4.3	7.0	9.6	11.3	13.0	14.8	15.6	15.6	16.1	15.6	15.6
80°	2.6	4.3	5.2	7.8	7.8	9.1	9.6	10.0	9.1	10.4	9.1
82.5°	1.7	2.6	3.9	3.9	4.8	5.6	5.6	6.1	6.1	5.6	5.6
85°	1.3	1.7	2.2	2.6	2.6	3.0	2.6	2.6	3.0	3.5	3.0
87.5°	0.4	0.9	0.4	0.9	0.9	1.7	1.3	1.3	1.3	1.7	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: P245467

CATALOG NUMBER: LSR8B15D010 EC8B15835 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	818.6	818.6	818.6	818.6
2.5°	819.5	819.9	819.5	819.5
5°	823.4	823.0	823.4	822.5
7.5°	826.4	826.4	826.0	826.0
10°	826.4	824.7	824.7	824.7
12.5°	819.9	817.7	816.4	815.6
15°	808.6	804.7	803.0	802.5
17.5°	793.8	790.4	788.2	786.9
20°	776.9	773.4	770.8	771.3
22.5°	762.1	758.2	756.5	755.6
25°	747.4	742.6	741.3	740.4
27.5°	723.5	720.9	719.5	718.2
30°	687.0	685.7	683.5	686.5
32.5°	644.8	642.6	640.9	642.2
35°	598.3	597.0	598.3	597.4
37.5°	555.7	557.0	558.8	559.6
40°	522.3	527.1	528.8	529.7
42.5°	488.8	494.5	497.9	500.1
45°	447.5	453.2	457.1	459.7
47.5°	405.0	409.7	413.6	413.2
50°	366.3	368.9	370.6	372.4
52.5°	327.2	327.2	327.6	327.6
55°	282.9	282.0	281.6	282.0
57.5°	234.2	233.3	232.9	231.6
60°	189.9	187.3	185.5	185.5
62.5°	148.6	145.6	144.3	143.8
65°	111.7	111.2	108.6	108.2
67.5°	80.8	79.1	77.3	77.8
70°	56.9	54.3	54.3	53.4
72.5°	36.9	35.6	35.2	35.2
75°	23.0	23.0	22.2	23.9
77.5°	15.2	15.2	14.8	15.2
80°	9.1	9.1	9.1	8.7
82.5°	5.6	6.1	5.6	5.6
85°	3.0	3.5	2.6	3.9
87.5°	1.7	2.2	1.7	2.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)