

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: P245479

Luminaire Tested: **LSR8B15D010 EC8B15850 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245479
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 EC8B15850 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1599.0 lumens
Efficiency: N/A
Efficacy: 111.0 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

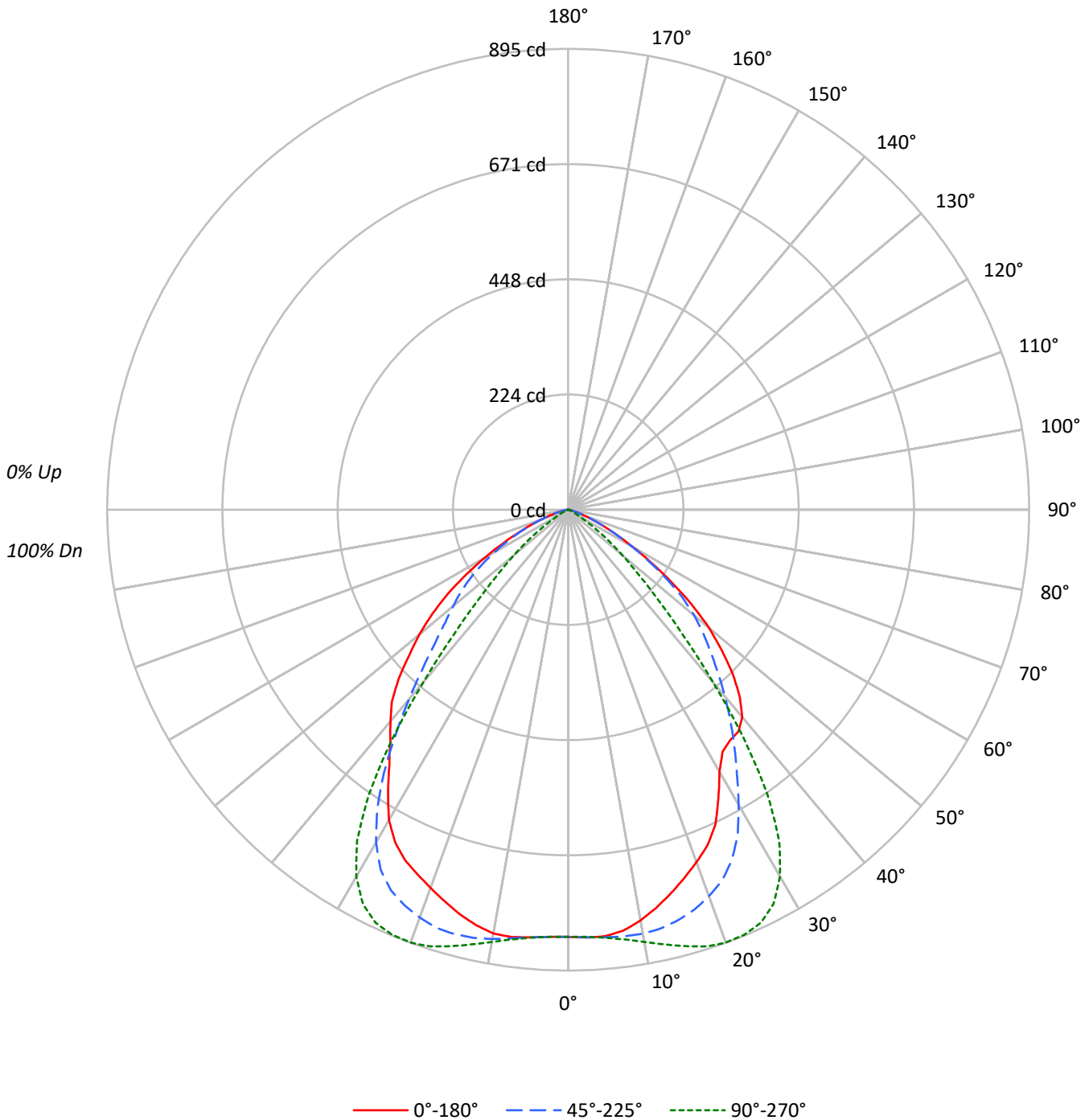
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P245479

CATALOG NUMBER: LSR8B15D010 EC8B15850 8LBDW0WH

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	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°	25579	25579	25579
5°	25732	25828	25800
10°	25353	26690	26167
15°	24613	28013	25961
20°	23896	29360	25645
25°	22980	30111	25528
30°	20912	29287	24772
35°	20603	25376	22790
40°	21162	17599	21604
45°	19698	10636	20313
50°	17088	6567	18100
55°	13112	3430	15360
60°	8936	1388	11594
65°	5560	708	7997
70°	3020	433	4887
75°	1573	214	2883
80°	710	231	1563
85°	460	142	1415



TEST NUMBER: P245479

CATALOG NUMBER: LSR8B15D010 EC8B15850 8LBDW0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.8	5.0
10°-20°	236.3	14.8
20°-30°	360.5	22.5
30°-40°	376.2	23.5
40°-50°	282.6	17.7
50°-60°	173.9	10.9
60°-70°	70.8	4.4
70°-80°	16.7	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°	676.6	42.3
0°-40°	1052.8	65.8
0°-60°	1509.3	94.4
0°-90°	1599.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1599.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	830	830	830	830	830	
5°	831	834	834	834	834	79
15°	771	825	878	853	813	217
25°	675	751	885	815	750	307
35°	547	563	674	623	605	346
45°	452	391	244	364	466	345
55°	244	232	64	232	286	219
65°	76	77	10	104	110	79
75°	13	13	2	23	24	16
85°	1	1	0	3	4	2
90°	0	0	0	0	0	



TEST NUMBER: P245479

CATALOG NUMBER: LSR8B15D010 EC8B15850 8LBDW0WH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5
2.5°	831.7	830.4	831.7	831.7	832.2	831.3	831.7	832.2	831.3	831.3	831.3
5°	831.3	830.4	831.3	830.8	831.7	831.7	832.6	832.6	833.5	833.5	834.8
7.5°	824.2	822.5	824.2	825.6	826.4	828.2	830.4	832.2	833.9	835.7	837.9
10°	809.7	809.7	811.0	813.7	816.3	819.4	823.3	827.7	832.2	836.1	840.1
12.5°	791.6	790.3	793.0	796.5	800.4	805.3	811.5	818.1	825.1	833.0	839.2
15°	771.0	769.6	772.7	776.2	781.1	788.1	795.6	804.4	814.5	825.1	835.2
17.5°	749.8	749.4	752.5	757.3	761.3	768.7	778.4	789.0	800.4	814.5	827.7
20°	728.2	727.8	730.9	734.9	740.1	747.2	756.9	769.2	782.8	798.7	814.1
22.5°	705.8	706.2	708.9	713.3	717.7	725.2	735.3	747.6	762.6	779.8	796.9
25°	675.4	673.2	676.7	681.1	688.6	694.8	704.5	717.7	733.1	751.1	771.4
27.5°	631.4	630.9	634.0	638.0	644.6	652.1	662.6	676.3	692.6	712.4	732.2
30°	587.3	588.2	589.6	593.5	597.9	605.4	616.0	627.4	642.8	661.8	682.9
32.5°	557.4	557.4	559.2	561.8	564.9	568.9	576.3	584.7	596.6	609.8	625.2
35°	547.3	545.5	547.3	547.7	548.2	549.0	550.4	553.0	557.0	562.7	568.4
37.5°	542.9	541.6	541.6	539.8	537.6	535.0	531.4	527.5	523.1	517.3	512.9
40°	525.7	524.8	523.9	522.2	517.3	512.1	506.3	497.1	487.0	472.9	458.8
42.5°	492.7	491.8	491.4	487.8	483.4	477.3	470.7	461.0	448.2	430.2	409.9
45°	451.7	450.0	448.7	445.6	442.5	437.2	431.0	422.2	409.5	391.0	366.8
47.5°	404.2	403.3	402.9	401.5	398.5	395.4	391.4	384.4	372.9	355.3	330.2
50°	356.2	354.4	355.3	354.9	353.6	351.4	348.7	343.9	335.1	319.2	296.3
52.5°	301.2	301.2	300.7	302.0	302.5	302.0	302.5	297.2	289.7	277.8	258.4
55°	243.9	243.9	245.2	247.0	248.8	249.2	248.8	246.6	241.3	231.6	214.4
57.5°	190.2	189.3	192.0	194.6	196.4	198.1	196.8	195.0	192.0	184.0	170.8
60°	144.9	144.9	146.6	148.4	150.1	151.9	151.5	151.0	148.4	143.1	132.5
62.5°	106.5	107.0	107.0	108.3	110.1	111.8	113.2	111.8	110.5	107.0	99.9
65°	76.2	75.7	76.2	77.5	78.8	80.6	81.5	81.0	79.7	77.1	71.8
67.5°	51.1	50.6	52.4	52.8	53.7	55.5	55.0	55.5	55.0	52.8	48.4
70°	33.5	32.6	33.5	33.0	34.3	34.8	35.7	36.1	35.7	34.3	33.0
72.5°	20.7	20.3	20.7	21.1	21.6	22.0	22.9	22.9	22.5	21.6	19.8
75°	13.2	11.9	12.3	11.5	12.3	12.3	13.2	13.6	13.2	13.2	12.3
77.5°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	8.4	8.8	7.9	7.5
80°	4.0	4.0	4.4	4.4	4.4	4.8	4.4	4.4	4.4	4.8	3.5
82.5°	3.1	2.6	2.6	2.6	3.1	2.6	2.6	2.6	2.6	2.6	2.6
85°	1.3	1.8	1.3	0.9	1.3	1.3	1.8	1.3	1.3	1.3	1.8
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: P245479

CATALOG NUMBER: LSR8B15D010 EC8B15850 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5
2.5°	831.7	830.8	830.8	830.4	831.3	830.4	830.8	830.4	830.4	831.3	830.4
5°	834.8	835.2	834.4	833.9	835.2	835.2	835.2	834.4	834.4	834.8	834.4
7.5°	839.2	840.1	840.5	841.0	841.8	842.3	842.3	841.8	841.4	842.7	841.0
10°	844.0	845.4	848.0	849.3	851.5	851.5	852.4	852.4	851.5	852.4	852.0
12.5°	842.3	850.2	854.6	857.7	860.8	863.4	864.3	864.7	864.3	866.1	864.3
15°	845.4	852.0	859.0	864.3	870.0	873.1	874.0	877.5	878.4	878.8	876.2
17.5°	840.5	852.4	859.9	867.8	876.2	881.9	887.2	889.4	889.8	890.7	887.2
20°	829.5	842.7	854.2	865.6	875.3	884.1	888.5	894.7	892.9	896.4	891.6
22.5°	814.5	829.5	844.0	859.0	869.1	879.7	889.0	893.3	895.6	895.6	890.3
25°	790.8	808.4	824.2	839.6	855.0	867.8	878.4	885.0	886.3	885.9	879.7
27.5°	753.8	772.7	791.2	808.8	827.7	842.7	855.0	863.0	865.2	865.2	858.6
30°	702.7	723.0	741.0	762.1	781.5	798.3	815.4	822.5	826.4	826.4	818.9
32.5°	641.9	659.1	675.8	696.5	717.7	736.6	752.9	762.6	767.4	767.0	760.4
35°	575.9	584.3	597.0	612.4	631.4	649.0	664.8	674.1	682.5	682.0	675.8
37.5°	509.9	507.7	509.0	514.7	526.6	538.9	551.2	560.1	567.1	570.2	568.9
40°	445.1	433.7	422.7	418.7	419.6	424.0	430.6	437.2	445.1	449.1	450.9
42.5°	387.0	367.6	348.3	333.7	325.4	322.7	325.8	328.0	332.9	338.6	344.3
45°	340.3	314.4	288.8	266.4	252.3	243.9	242.2	243.9	246.6	252.3	259.8
47.5°	302.0	271.7	243.0	217.9	197.2	186.2	183.2	182.3	184.9	190.2	200.3
50°	268.1	237.8	206.1	177.0	155.4	143.1	138.7	136.9	140.0	144.0	153.2
52.5°	231.2	201.2	168.6	140.5	118.0	105.2	100.4	97.7	99.5	104.8	114.0
55°	191.1	163.3	133.8	104.8	83.2	71.3	65.6	63.8	65.6	71.3	80.6
57.5°	151.0	127.7	103.0	75.7	56.4	44.5	38.7	37.0	41.8	44.0	53.7
60°	118.0	99.1	77.9	55.5	38.7	29.5	23.8	22.5	24.7	28.6	36.5
62.5°	88.5	76.6	59.9	39.6	28.6	18.9	15.8	14.5	15.8	18.9	25.1
65°	64.3	55.0	41.8	29.1	19.4	14.1	10.6	9.7	11.0	13.2	18.5
67.5°	44.0	37.0	29.1	20.3	13.2	8.8	7.5	7.5	7.9	9.7	13.6
70°	28.6	24.2	18.5	13.2	8.8	6.6	5.7	4.8	5.7	7.0	9.2
72.5°	18.1	15.4	11.9	9.2	6.6	4.8	4.0	3.5	4.4	5.3	7.0
75°	11.0	8.4	6.2	4.8	3.5	3.5	3.5	1.8	2.2	3.5	4.4
77.5°	6.6	5.7	4.8	4.0	3.1	1.8	1.8	1.8	2.2	2.6	4.0
80°	3.5	3.1	2.2	2.2	1.8	1.3	1.8	1.3	0.9	2.2	2.6
82.5°	2.2	1.8	1.8	1.8	2.2	0.9	1.3	0.9	1.3	1.8	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: P245479

CATALOG NUMBER: LSR8B15D010 EC8B15850 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5	829.5
2.5°	830.8	830.4	830.8	830.4	830.4	830.4	830.8	830.8	830.4	830.4	831.3
5°	834.4	834.4	834.4	833.9	833.5	833.5	834.4	834.4	833.0	834.4	834.4
7.5°	841.8	840.5	841.8	840.1	839.2	839.6	840.1	839.2	838.3	838.8	838.8
10°	851.5	850.2	850.2	848.9	847.6	846.7	845.8	843.6	841.4	841.0	839.2
12.5°	863.0	860.8	859.5	856.8	854.6	851.5	848.9	845.4	841.0	837.9	834.8
15°	874.4	870.9	867.8	863.4	858.6	853.3	847.6	841.8	834.8	828.6	823.3
17.5°	883.7	878.8	873.1	866.1	859.0	851.1	842.7	834.4	824.2	816.3	810.1
20°	886.7	879.7	872.2	863.0	853.7	842.7	832.2	821.1	809.7	801.3	794.3
22.5°	882.8	874.4	865.2	855.5	843.2	831.3	818.9	806.2	796.0	784.6	778.0
25°	871.8	861.7	851.5	840.1	828.2	815.0	801.8	788.6	776.2	770.1	761.7
27.5°	849.3	838.3	827.3	815.4	801.8	788.6	774.9	762.1	751.6	743.2	738.4
30°	809.7	796.9	784.2	771.4	759.5	745.9	733.1	722.5	711.9	705.3	700.5
32.5°	748.9	737.5	724.7	712.4	701.4	689.9	679.4	670.1	662.6	658.2	654.7
35°	667.0	655.6	645.9	637.1	627.9	623.0	616.4	611.1	608.0	606.3	605.8
37.5°	564.0	557.4	554.3	552.6	550.8	549.5	550.4	552.6	554.3	557.4	560.9
40°	453.9	459.7	461.4	467.6	473.3	480.8	489.2	498.9	506.8	516.9	523.9
42.5°	353.6	364.1	376.4	389.7	403.7	417.4	434.1	449.5	463.6	476.4	487.4
45°	271.7	287.9	306.4	325.4	344.3	364.1	384.4	403.3	420.0	433.7	445.1
47.5°	211.8	229.8	253.6	276.9	299.8	323.2	345.6	365.4	379.5	392.7	402.9
50°	167.7	188.4	214.4	241.3	266.4	291.0	314.8	333.3	347.4	358.0	365.4
52.5°	129.9	154.5	181.0	209.1	236.0	262.9	284.9	302.0	313.5	322.7	328.5
55°	96.9	121.1	149.3	178.3	205.6	231.6	252.3	267.3	277.4	282.7	285.7
57.5°	70.0	92.0	120.2	149.3	173.9	198.6	215.3	229.0	234.7	237.8	239.1
60°	51.1	71.3	96.4	121.5	144.9	164.7	179.2	188.4	192.9	194.6	194.2
62.5°	37.4	55.0	76.6	97.7	116.7	133.0	144.4	150.6	152.8	153.7	152.3
65°	28.6	42.3	60.8	77.1	91.6	103.5	111.8	115.8	117.1	116.7	115.8
67.5°	21.1	31.7	45.4	57.7	68.2	77.5	81.9	85.4	86.3	85.0	83.7
70°	15.0	23.3	33.0	41.4	49.3	54.6	59.4	59.9	59.9	59.4	58.6
72.5°	10.6	16.3	22.5	28.2	33.0	37.0	38.7	40.1	39.6	39.2	38.3
75°	7.0	10.1	16.3	17.6	22.0	23.3	25.1	25.1	25.5	24.2	24.2
77.5°	4.4	7.0	9.7	11.5	13.2	15.0	15.8	15.8	16.3	15.8	15.8
80°	2.6	4.4	5.3	7.9	7.9	9.2	9.7	10.1	9.2	10.6	9.2
82.5°	1.8	2.6	4.0	4.0	4.8	5.7	5.7	6.2	6.2	5.7	5.7
85°	1.3	1.8	2.2	2.6	2.6	3.1	2.6	2.6	3.1	3.5	3.1
87.5°	0.4	0.9	0.4	0.9	0.9	1.8	1.3	1.3	1.3	1.8	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: P245479

CATALOG NUMBER: LSR8B15D010 EC8B15850 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	829.5	829.5	829.5	829.5
2.5°	830.4	830.8	830.4	830.4
5°	834.4	833.9	834.4	833.5
7.5°	837.4	837.4	837.0	837.0
10°	837.4	835.7	835.7	835.7
12.5°	830.8	828.6	827.3	826.4
15°	819.4	815.4	813.7	813.2
17.5°	804.4	800.9	798.7	797.4
20°	787.2	783.7	781.1	781.5
22.5°	772.3	768.3	766.5	765.7
25°	757.3	752.5	751.1	750.3
27.5°	733.1	730.4	729.1	727.8
30°	696.1	694.8	692.6	695.7
32.5°	653.4	651.2	649.4	650.8
35°	606.3	605.0	606.3	605.4
37.5°	563.1	564.5	566.2	567.1
40°	529.2	534.1	535.8	536.7
42.5°	495.3	501.1	504.6	506.8
45°	453.5	459.2	463.2	465.8
47.5°	410.4	415.2	419.2	418.7
50°	371.2	373.8	375.6	377.3
52.5°	331.5	331.5	332.0	332.0
55°	286.6	285.7	285.3	285.7
57.5°	237.3	236.4	236.0	234.7
60°	192.4	189.8	188.0	188.0
62.5°	150.6	147.5	146.2	145.7
65°	113.2	112.7	110.1	109.6
67.5°	81.9	80.1	78.4	78.8
70°	57.7	55.0	55.0	54.2
72.5°	37.4	36.1	35.7	35.7
75°	23.3	23.3	22.5	24.2
77.5°	15.4	15.4	15.0	15.4
80°	9.2	9.2	9.2	8.8
82.5°	5.7	6.2	5.7	5.7
85°	3.1	3.5	2.6	4.0
87.5°	1.8	2.2	1.8	2.2
90°	0.0	0.0	0.0	0.0

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