

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: P244645

Luminaire Tested: **LSR8B15D010 EC8B15950 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244645
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: LSR8B15D010 EC8B15950 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1444.0 lumens
Efficiency: N/A
Efficacy: 100.3 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

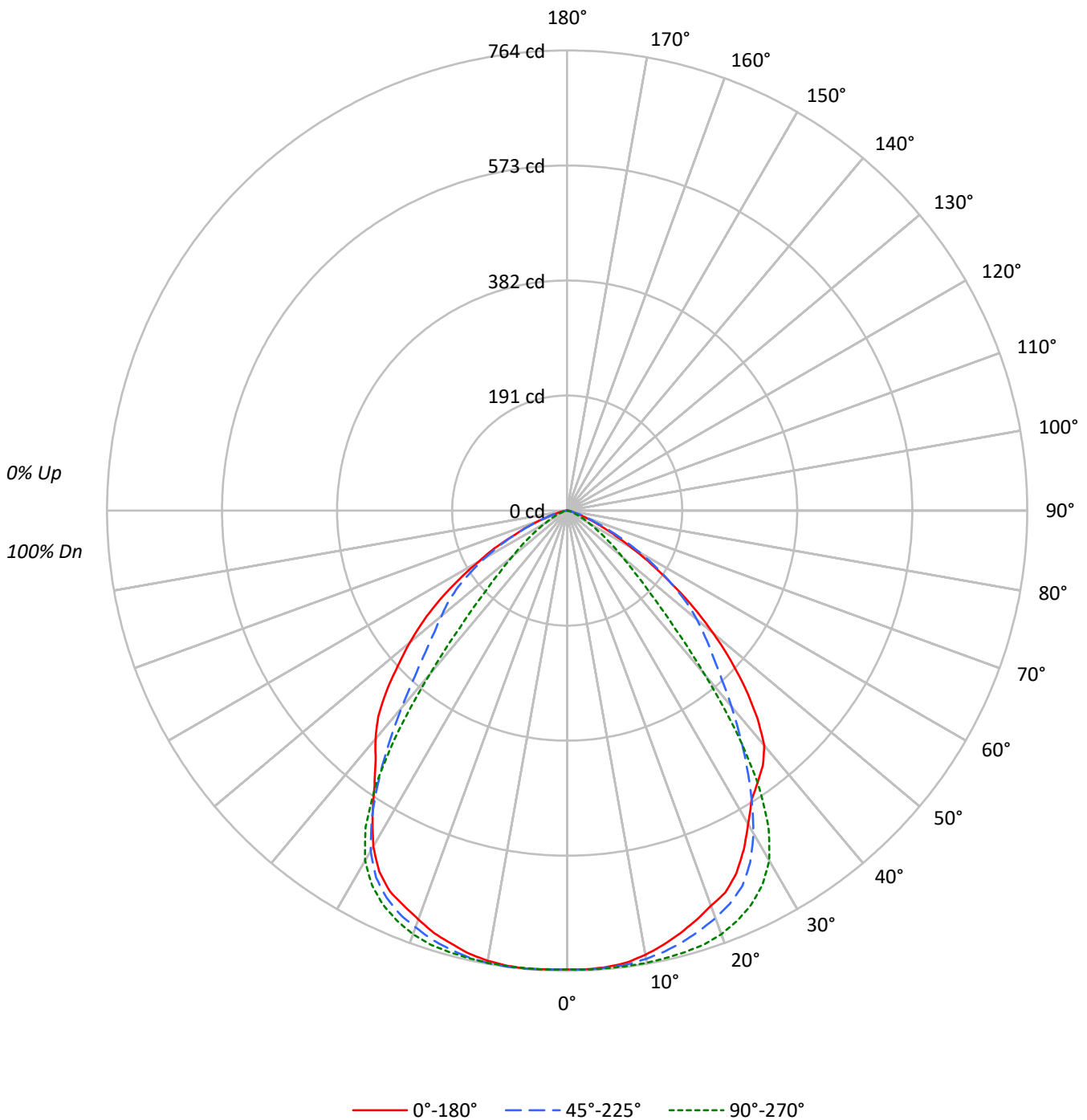
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P244645

CATALOG NUMBER: LSR8B15D010 EC8B15950 8LBDW0H

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°	23494	23494	23494
5°	23547	23609	23633
10°	23446	23869	23766
15°	23186	24218	23761
20°	22908	24559	23699
25°	22609	24586	23725
30°	21393	23896	22920
35°	20753	20768	20983
40°	20493	14290	19918
45°	18264	8578	18512
50°	15183	5709	16364
55°	11387	3935	13870
60°	7715	2621	10466
65°	4655	1700	7194
70°	2579	920	4427
75°	1168	393	2288
80°	1012	444	1598
85°	1168	566	1592



TEST NUMBER: P244645

CATALOG NUMBER: LSR8B15D010 EC8B15950 8LBDW0H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.7	5.0
10°-20°	211.2	14.6
20°-30°	320.5	22.2
30°-40°	336.6	23.3
40°-50°	252.4	17.5
50°-60°	161.9	11.2
60°-70°	69.3	4.8
70°-80°	16.4	1.1
80°-90°	3.0	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°	604.4	41.9
0°-40°	941.0	65.2
0°-60°	1355.3	93.9
0°-90°	1444.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1444.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	762	762	762	762	762	
5°	761	762	763	764	764	72
15°	726	741	759	754	744	205
25°	664	688	723	710	697	304
35°	551	521	552	545	557	346
45°	419	342	197	332	424	321
55°	212	212	73	221	258	192
65°	64	75	23	97	99	68
75°	10	11	3	20	19	14
85°	3	2	2	3	4	3
90°	0	0	0	0	0	



TEST NUMBER: P244645

CATALOG NUMBER: LSR8B15D010 EC8B15950 8LBDW0H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	761.9	761.9	761.9	761.9	761.9	761.9	761.9	761.9	761.9	761.9	761.9
2.5°	762.3	763.1	762.7	762.7	762.3	762.7	762.7	763.5	763.5	762.7	762.3
5°	760.7	761.5	761.5	760.7	760.7	762.7	761.5	762.3	762.3	761.9	761.9
7.5°	757.0	757.0	758.6	757.4	757.4	758.6	758.2	759.0	759.8	760.3	760.3
10°	748.8	749.6	750.0	750.0	750.4	751.7	752.5	754.1	754.9	755.7	756.2
12.5°	738.6	739.8	740.2	739.8	741.0	742.7	744.7	746.8	748.0	749.6	750.8
15°	726.3	726.3	727.1	728.4	729.2	731.6	733.7	736.1	739.4	741.4	743.5
17.5°	712.8	713.6	714.9	714.9	716.5	720.6	721.8	725.5	729.2	731.2	735.3
20°	698.1	698.9	700.1	701.0	703.0	706.3	708.7	712.0	716.1	719.8	723.8
22.5°	686.6	685.0	685.8	686.6	688.7	691.5	694.4	698.5	702.6	706.3	710.4
25°	664.5	665.0	666.2	667.0	669.5	671.9	675.2	680.1	683.8	687.9	692.4
27.5°	634.7	635.1	637.2	637.2	639.2	643.3	645.3	649.4	654.3	658.4	663.7
30°	600.8	601.6	601.6	603.2	604.4	606.5	608.5	612.6	615.1	618.8	626.1
32.5°	569.7	570.5	570.1	569.7	568.4	568.0	567.6	568.4	569.3	570.5	573.4
35°	551.3	549.2	547.6	544.7	541.5	537.4	533.7	528.8	524.3	520.6	516.5
37.5°	533.7	533.3	530.8	526.7	520.2	512.8	504.2	493.6	483.0	471.5	460.5
40°	509.1	507.9	505.9	500.2	492.8	483.8	472.3	459.3	442.1	424.5	406.5
42.5°	467.4	467.8	465.4	460.9	453.9	445.3	433.5	419.2	400.8	379.9	356.6
45°	418.8	418.8	418.0	414.3	409.4	402.4	393.4	381.6	363.6	342.3	317.3
47.5°	368.1	368.5	367.2	366.4	364.4	359.9	353.3	344.3	331.7	311.2	286.3
50°	316.5	316.5	318.6	318.2	318.2	316.5	313.7	308.3	297.3	281.0	257.6
52.5°	265.0	265.8	267.1	268.7	270.7	274.0	270.7	268.3	261.3	248.6	228.6
55°	211.8	212.7	214.7	217.6	220.0	223.3	224.1	224.1	220.4	211.8	196.7
57.5°	166.4	165.2	166.9	169.3	172.6	175.9	178.3	181.2	180.8	175.0	162.8
60°	125.1	125.6	126.8	129.2	131.7	134.5	137.8	140.3	141.5	138.6	130.9
62.5°	91.2	91.2	92.8	95.3	96.5	100.6	102.6	103.9	105.1	104.7	99.8
65°	63.8	64.6	65.4	66.7	67.9	70.3	71.6	74.0	74.8	75.2	71.6
67.5°	45.0	43.8	44.6	45.4	46.6	48.3	50.7	50.7	51.9	51.9	49.5
70°	28.6	28.6	29.0	30.3	31.1	31.5	32.3	33.1	34.4	33.9	33.9
72.5°	19.2	18.8	19.2	19.6	20.0	21.3	21.3	21.7	22.5	22.9	21.3
75°	9.8	10.2	11.0	10.6	11.9	11.0	11.4	12.7	12.3	11.4	11.4
77.5°	8.2	8.2	8.2	7.8	8.6	8.6	8.2	9.0	8.6	8.6	8.2
80°	5.7	6.1	5.7	5.3	5.7	5.3	5.3	5.3	5.3	5.3	4.9
82.5°	4.5	3.7	4.1	3.7	4.1	4.1	3.7	3.3	3.3	3.7	3.3
85°	3.3	2.5	2.9	2.9	2.5	2.5	2.5	2.5	2.5	2.0	2.0
87.5°	2.0	1.2	1.2	1.2	1.6	1.6	1.6	1.2	1.6	1.6	0.8
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: P244645

CATALOG NUMBER: LSR8B15D010 EC8B15950 8LBDW0H

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	761.9	761.9	761.9	761.9	761.9	761.9	761.9	761.9	761.9	761.9	761.9
2.5°	763.1	762.7	763.5	763.1	763.1	762.7	763.1	762.7	763.5	761.9	762.3
5°	763.1	762.3	762.7	763.1	763.5	762.7	762.7	762.7	763.5	762.7	763.1
7.5°	761.5	761.1	762.3	763.1	762.7	762.3	763.1	762.7	763.5	763.1	763.9
10°	758.2	758.6	759.4	760.7	761.1	761.5	762.3	762.3	763.5	761.9	762.7
12.5°	753.3	754.9	757.0	757.8	759.4	759.4	760.3	760.7	761.5	761.1	762.3
15°	747.2	749.2	751.7	753.7	755.7	757.0	758.2	758.6	759.8	758.6	759.0
17.5°	739.8	742.3	745.9	748.4	751.7	752.9	754.5	755.3	756.6	755.7	756.2
20°	729.6	732.4	736.5	740.2	742.3	745.1	747.2	748.4	749.2	748.4	748.8
22.5°	715.3	719.4	724.7	727.5	731.6	734.1	734.5	737.3	739.4	737.3	738.2
25°	698.5	702.6	706.7	712.8	716.5	719.4	722.2	722.6	724.7	724.3	723.8
27.5°	670.7	676.0	683.0	687.9	692.8	697.3	700.5	701.4	703.4	702.6	703.0
30°	632.6	638.4	644.9	652.7	659.6	664.1	668.2	671.1	673.1	671.9	671.5
32.5°	578.7	584.4	591.4	599.1	607.3	613.8	618.8	622.4	624.9	624.1	622.0
35°	516.9	518.6	523.1	529.2	536.1	543.1	547.6	551.7	554.5	555.4	555.4
37.5°	453.5	448.2	444.9	444.9	449.0	451.9	456.0	458.4	462.9	464.6	465.8
40°	392.2	379.9	368.5	359.9	354.2	353.7	353.7	355.0	359.1	364.4	369.3
42.5°	337.4	317.8	300.2	284.2	272.8	266.2	263.4	263.8	267.1	272.0	280.1
45°	293.6	269.1	247.0	227.8	212.2	202.0	197.1	196.7	199.2	204.9	213.9
47.5°	259.7	233.5	208.6	186.5	169.7	158.7	152.9	151.3	152.9	158.3	168.9
50°	231.5	204.5	178.7	155.8	137.8	126.4	121.0	119.0	121.0	125.6	136.2
52.5°	205.3	177.5	153.4	131.3	112.1	102.2	96.5	95.3	96.5	101.8	110.4
55°	175.0	151.3	127.6	105.5	88.7	78.9	74.4	73.2	74.4	79.3	88.3
57.5°	145.2	124.7	103.9	83.8	69.5	60.9	56.8	55.2	58.1	61.3	72.0
60°	117.4	101.0	83.4	65.8	54.0	46.2	42.9	42.5	43.3	47.4	54.8
62.5°	92.0	78.5	64.6	50.3	40.5	37.2	33.1	32.7	33.5	36.0	41.7
65°	66.3	57.7	47.0	36.8	29.0	24.5	22.9	23.3	24.1	25.8	31.1
67.5°	46.2	40.1	32.7	25.8	20.0	18.0	16.4	16.0	16.4	19.2	22.1
70°	31.1	27.4	22.1	19.6	13.9	11.0	11.4	10.2	11.9	11.9	14.3
72.5°	20.4	18.0	14.7	11.4	9.8	7.8	7.8	7.4	8.2	8.6	10.6
75°	10.6	8.2	8.2	5.7	4.1	2.0	3.7	3.3	2.9	3.3	4.1
77.5°	7.4	6.1	5.7	4.5	4.1	3.3	3.3	3.3	3.3	3.7	4.1
80°	4.5	4.5	3.3	2.9	2.5	2.0	2.5	2.5	2.5	2.5	2.9
82.5°	2.9	2.5	2.5	2.0	2.0	1.6	1.6	1.6	1.6	1.6	2.5
85°	2.5	1.6	1.6	1.2	1.6	2.9	1.2	1.6	1.6	1.6	1.2
87.5°	0.8	1.2	1.2	1.2	0.8	0.4	0.8	1.2	1.2	2.0	1.6
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: P244645

CATALOG NUMBER: LSR8B15D010 EC8B15950 8LBDW0H

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	761.9	761.9	761.9	761.9	761.9	761.9	761.9	761.9	761.9	761.9	761.9
2.5°	763.1	763.5	763.5	763.1	763.1	762.3	763.9	762.7	763.1	764.7	763.5
5°	763.9	764.3	764.3	763.9	763.9	763.9	764.3	764.3	763.9	763.5	764.3
7.5°	765.6	765.2	765.2	764.3	764.3	763.5	764.3	763.1	763.9	763.1	764.3
10°	763.5	763.9	763.5	763.1	763.1	762.7	762.7	761.5	761.9	760.7	761.5
12.5°	762.3	761.9	761.9	761.1	760.3	759.4	759.0	757.8	757.8	754.9	756.2
15°	759.0	759.4	758.2	756.6	755.7	753.7	752.9	751.2	749.6	747.6	748.0
17.5°	756.2	754.9	753.3	751.7	748.4	746.8	745.1	742.7	741.8	739.4	738.6
20°	747.6	746.8	744.7	741.8	739.8	736.1	734.5	732.0	730.0	727.5	726.3
22.5°	736.5	735.7	733.3	730.4	727.1	725.5	723.8	719.4	717.3	714.9	714.4
25°	722.6	721.4	718.9	715.7	714.0	709.5	707.9	704.6	703.8	701.4	701.0
27.5°	701.4	699.7	696.9	692.8	689.9	687.0	685.4	683.0	682.1	679.7	679.3
30°	669.5	667.4	661.7	660.1	655.1	652.3	652.3	649.0	649.4	647.8	647.8
32.5°	619.2	615.9	611.4	608.1	604.8	603.2	603.2	602.0	602.8	602.8	603.6
35°	552.5	548.0	545.5	543.5	543.5	545.1	550.0	551.3	553.7	555.8	557.4
37.5°	467.0	466.6	469.5	471.9	478.1	485.0	493.6	501.0	507.9	512.8	517.7
40°	374.6	384.8	393.0	404.5	413.9	427.4	442.9	455.6	467.4	476.0	485.0
42.5°	292.4	305.5	322.7	339.4	356.2	374.6	395.1	412.6	428.2	440.0	449.4
45°	227.8	245.8	266.6	287.9	309.6	332.5	353.7	371.7	388.1	400.4	409.8
47.5°	183.6	203.3	227.0	250.3	274.8	298.9	322.7	338.2	351.7	361.5	370.1
50°	151.7	172.6	197.5	224.1	248.6	272.8	293.2	308.3	319.4	328.0	333.3
52.5°	126.8	148.9	175.4	202.0	226.6	248.6	267.1	278.5	287.5	293.6	298.5
55°	104.7	126.0	150.9	175.9	200.0	220.8	236.0	244.6	251.5	255.2	258.0
57.5°	85.5	105.1	128.0	150.9	171.8	188.9	200.8	209.4	212.7	215.5	215.1
60°	67.1	85.5	106.3	126.0	144.0	157.9	166.4	171.4	173.8	175.0	174.2
62.5°	52.8	69.5	85.5	102.6	115.7	127.6	135.8	135.8	137.0	137.4	138.6
65°	39.3	51.9	65.8	78.5	89.1	96.9	101.4	102.6	104.3	103.9	103.1
67.5°	29.0	38.4	48.7	58.1	65.4	70.3	73.6	76.5	76.1	75.2	74.8
70°	20.0	26.2	35.2	40.9	46.2	51.1	51.9	52.3	52.8	53.2	52.3
72.5°	13.9	18.4	23.3	28.2	31.5	33.5	35.6	36.0	36.0	36.0	35.6
75°	7.0	9.4	13.9	16.0	18.8	19.6	21.3	21.3	22.5	20.9	20.4
77.5°	6.1	7.4	9.8	11.4	12.7	13.9	14.3	15.5	15.1	14.3	14.7
80°	3.7	4.5	6.1	7.0	8.6	9.0	9.4	9.8	9.4	9.8	9.8
82.5°	2.9	3.3	4.1	4.1	5.3	5.3	5.7	5.7	6.1	6.1	6.1
85°	1.6	2.9	2.5	4.9	3.3	3.3	4.1	4.9	4.1	4.1	4.9
87.5°	1.6	1.6	1.2	1.6	1.6	1.6	2.0	2.5	2.5	2.9	2.5
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: P244645

CATALOG NUMBER: LSR8B15D010 EC8B15950 8LBDW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	761.9	761.9	761.9	761.9
2.5°	763.1	763.9	762.7	762.3
5°	764.3	764.3	763.5	763.5
7.5°	764.3	764.3	763.1	762.3
10°	761.1	761.1	759.8	759.0
12.5°	754.9	754.9	754.5	753.3
15°	747.2	747.2	745.5	744.3
17.5°	736.5	737.3	735.3	735.3
20°	725.1	724.7	723.0	722.2
22.5°	713.2	712.4	712.0	709.5
25°	700.5	699.7	698.5	697.3
27.5°	678.9	678.5	677.2	675.6
30°	645.7	645.3	643.7	643.7
32.5°	602.8	602.4	600.8	601.2
35°	558.2	559.9	559.0	557.4
37.5°	521.0	522.2	523.1	522.2
40°	489.9	493.6	494.0	494.8
42.5°	456.8	461.7	463.3	464.2
45°	417.1	421.6	425.3	424.5
47.5°	376.6	379.9	383.2	380.7
50°	337.8	339.8	341.1	341.1
52.5°	301.0	301.0	300.6	301.0
55°	258.9	258.9	257.2	258.0
57.5°	214.7	215.5	214.3	212.2
60°	173.8	171.8	170.9	169.7
62.5°	135.4	135.4	132.5	136.2
65°	101.4	100.2	99.0	98.6
67.5°	73.6	73.2	72.0	71.6
70°	51.9	50.3	49.9	49.1
72.5°	34.8	34.8	33.9	33.9
75°	21.3	19.2	18.8	19.2
77.5°	14.7	14.3	14.3	13.9
80°	9.8	9.4	10.2	9.0
82.5°	6.1	6.5	6.1	6.5
85°	4.1	4.9	4.5	4.5
87.5°	2.5	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0

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