

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: P245473

Luminaire Tested: **LSR8B15D010 EC8B15840 8LBDW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245473  
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 EC8B15840 8LBDW0WH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1568.0 lumens  
Efficiency: N/A  
Efficacy: 108.9 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

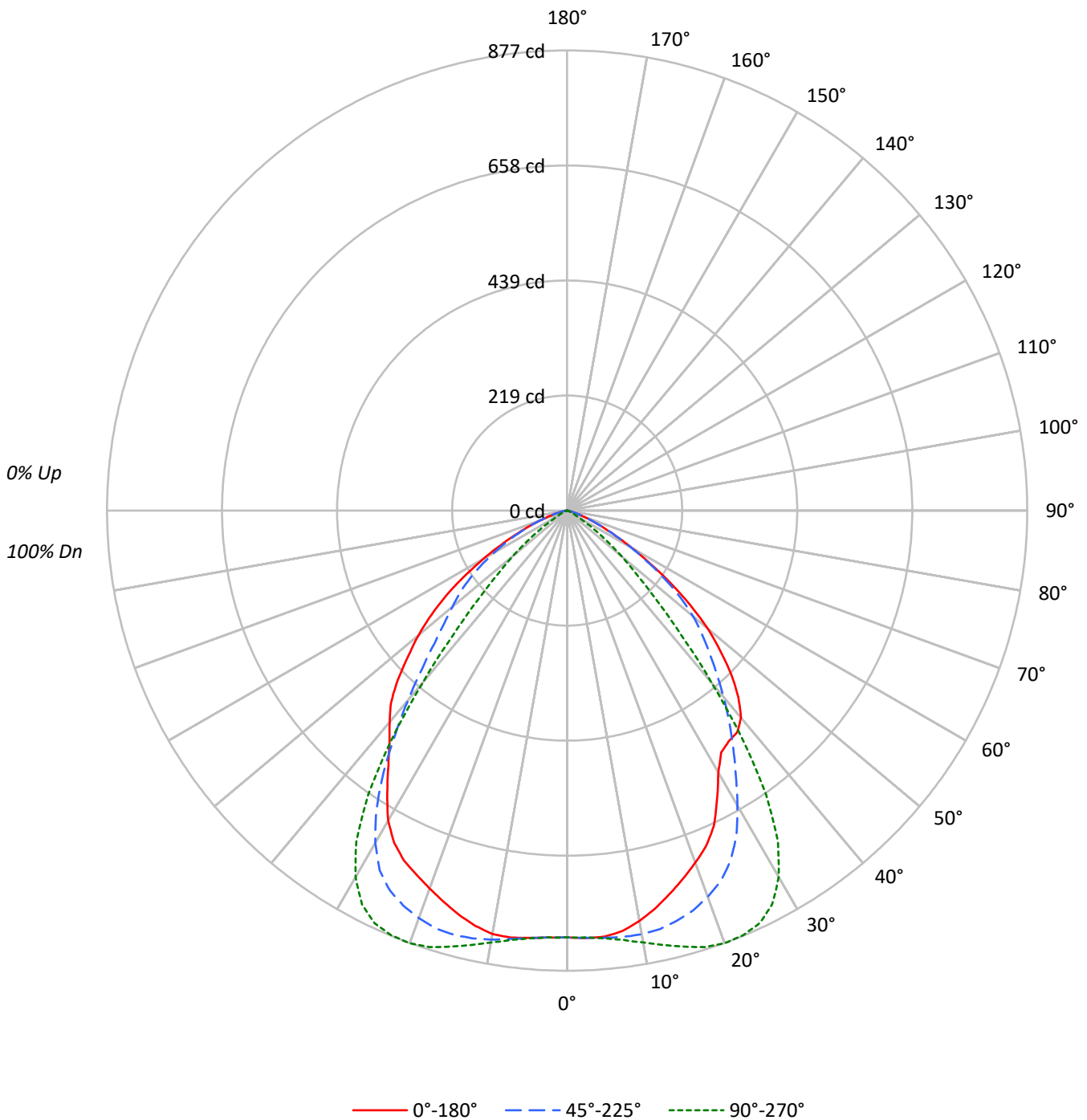
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### 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	74	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°	25082	25082	25082
5°	25234	25327	25299
10°	24862	26174	25660
15°	24135	27471	25456
20°	23433	28789	25150
25°	22534	29526	25032
30°	20509	28717	24291
35°	20204	24883	22349
40°	20751	17257	21186
45°	19319	10431	19921
50°	16757	6443	17750
55°	12860	3365	15064
60°	8758	1357	11372
65°	5450	693	7844
70°	2957	433	4787
75°	1549	203	2824
80°	693	231	1527
85°	460	142	1380



TEST NUMBER: P245473

CATALOG NUMBER: LSR8B15D010 EC8B15840 8LBDW0WH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.2	5.0
10°-20°	231.7	14.8
20°-30°	353.5	22.5
30°-40°	368.9	23.5
40°-50°	277.1	17.7
50°-60°	170.5	10.9
60°-70°	69.4	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°	663.5	42.3
0°-40°	1032.4	65.8
0°-60°	1480.0	94.4
0°-90°	1568.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1568.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	813	813	813	813	813	
5°	815	817	818	817	817	77
15°	756	809	860	837	797	213
25°	662	737	868	799	736	301
35°	537	552	661	611	594	339
45°	443	383	239	357	457	338
55°	239	227	63	227	280	215
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: P245473

CATALOG NUMBER: LSR8B15D010 EC8B15840 8LBDW0WH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	813.4	813.4	813.4	813.4	813.4	813.4	813.4	813.4	813.4	813.4	813.4
2.5°	815.6	814.3	815.6	815.6	816.0	815.2	815.6	816.0	815.2	815.2	815.2
5°	815.2	814.3	815.2	814.7	815.6	815.6	816.5	816.5	817.3	817.3	818.6
7.5°	808.2	806.5	808.2	809.5	810.4	812.1	814.3	816.0	817.7	819.5	821.6
10°	794.0	794.0	795.3	797.9	800.5	803.5	807.4	811.7	816.0	819.9	823.8
12.5°	776.3	775.0	777.6	781.0	784.9	789.7	795.7	802.2	809.1	816.9	822.9
15°	756.0	754.7	757.7	761.2	765.9	772.8	780.2	788.8	798.7	809.1	819.0
17.5°	735.3	734.8	737.9	742.6	746.5	753.8	763.3	773.7	784.9	798.7	811.7
20°	714.1	713.7	716.7	720.6	725.8	732.7	742.2	754.3	767.7	783.2	798.3
22.5°	692.1	692.5	695.1	699.4	703.8	711.1	721.0	733.1	747.8	764.6	781.5
25°	662.3	660.2	663.6	667.9	675.3	681.3	690.8	703.8	718.9	736.6	756.4
27.5°	619.1	618.7	621.7	625.6	632.1	639.4	649.8	663.2	679.2	698.6	718.0
30°	576.0	576.8	578.1	582.0	586.3	593.7	604.0	615.3	630.4	648.9	669.7
32.5°	546.6	546.6	548.3	550.9	553.9	557.8	565.2	573.4	585.0	598.0	613.1
35°	536.7	534.9	536.7	537.1	537.5	538.4	539.7	542.3	546.2	551.8	557.4
37.5°	532.4	531.1	531.1	529.3	527.2	524.6	521.1	517.2	512.9	507.3	503.0
40°	515.5	514.7	513.8	512.1	507.3	502.1	496.5	487.4	477.5	463.7	449.9
42.5°	483.1	482.3	481.8	478.4	474.1	468.0	461.5	452.0	439.5	421.8	402.0
45°	443.0	441.3	440.0	436.9	433.9	428.7	422.7	414.0	401.5	383.4	359.7
47.5°	396.4	395.5	395.1	393.8	390.7	387.7	383.8	376.9	365.7	348.4	323.8
50°	349.3	347.6	348.4	348.0	346.7	344.5	341.9	337.2	328.6	313.0	290.6
52.5°	295.3	295.3	294.9	296.2	296.6	296.2	296.6	291.4	284.1	272.4	253.4
55°	239.2	239.2	240.5	242.2	243.9	244.4	243.9	241.8	236.6	227.1	210.3
57.5°	186.5	185.7	188.2	190.8	192.6	194.3	193.0	191.3	188.2	180.5	167.5
60°	142.0	142.0	143.8	145.5	147.2	149.0	148.5	148.1	145.5	140.3	130.0
62.5°	104.5	104.9	104.9	106.2	107.9	109.7	111.0	109.7	108.4	104.9	98.0
65°	74.7	74.3	74.7	76.0	77.3	79.0	79.9	79.4	78.1	75.6	70.4
67.5°	50.1	49.7	51.4	51.8	52.7	54.4	54.0	54.4	54.0	51.8	47.5
70°	32.8	31.9	32.8	32.4	33.7	34.1	35.0	35.4	35.0	33.7	32.4
72.5°	20.3	19.9	20.3	20.7	21.2	21.6	22.4	22.4	22.0	21.2	19.4
75°	13.0	11.7	12.1	11.2	12.1	12.1	13.0	13.4	13.0	13.0	12.1
77.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	8.2	8.6	7.8	7.3
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: P245473

CATALOG NUMBER: LSR8B15D010 EC8B15840 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	813.4	813.4	813.4	813.4	813.4	813.4	813.4	813.4	813.4	813.4	813.4
2.5°	815.6	814.7	814.7	814.3	815.2	814.3	814.7	814.3	814.3	815.2	814.3
5°	818.6	819.0	818.2	817.7	819.0	819.0	819.0	818.2	818.2	818.6	818.2
7.5°	822.9	823.8	824.2	824.7	825.5	826.0	826.0	825.5	825.1	826.4	824.7
10°	827.7	829.0	831.6	832.9	835.0	835.0	835.9	835.9	835.0	835.9	835.4
12.5°	826.0	833.7	838.0	841.1	844.1	846.7	847.5	848.0	847.5	849.3	847.5
15°	829.0	835.4	842.4	847.5	853.1	856.2	857.0	860.5	861.4	861.8	859.2
17.5°	824.2	835.9	843.2	851.0	859.2	864.8	870.0	872.1	872.6	873.4	870.0
20°	813.4	826.4	837.6	848.8	858.3	867.0	871.3	877.3	875.6	879.1	874.3
22.5°	798.7	813.4	827.7	842.4	852.3	862.7	871.7	876.0	878.2	878.2	873.0
25°	775.4	792.7	808.2	823.4	838.5	851.0	861.4	867.8	869.1	868.7	862.7
27.5°	739.2	757.7	775.9	793.1	811.7	826.4	838.5	846.2	848.4	848.4	841.9
30°	689.1	708.9	726.6	747.4	766.4	782.8	799.6	806.5	810.4	810.4	803.1
32.5°	629.5	646.3	662.7	683.0	703.8	722.3	738.3	747.8	752.6	752.1	745.6
35°	564.7	572.9	585.5	600.6	619.1	636.4	651.9	661.0	669.2	668.8	662.7
37.5°	500.0	497.8	499.1	504.7	516.4	528.5	540.6	549.2	556.1	559.1	557.8
40°	436.5	425.3	414.5	410.6	411.5	415.8	422.3	428.7	436.5	440.4	442.1
42.5°	379.5	360.5	341.5	327.3	319.1	316.5	319.5	321.7	326.4	332.0	337.6
45°	333.7	308.3	283.2	261.2	247.4	239.2	237.5	239.2	241.8	247.4	254.7
47.5°	296.2	266.4	238.3	213.7	193.4	182.6	179.6	178.7	181.3	186.5	196.4
50°	262.9	233.1	202.1	173.6	152.4	140.3	136.0	134.3	137.3	141.2	150.2
52.5°	226.7	197.3	165.4	137.7	115.7	103.2	98.4	95.9	97.6	102.8	111.8
55°	187.4	160.2	131.3	102.8	81.6	69.9	64.3	62.6	64.3	69.9	79.0
57.5°	148.1	125.2	101.0	74.3	55.3	43.6	38.0	36.3	41.0	43.2	52.7
60°	115.7	97.1	76.4	54.4	38.0	28.9	23.3	22.0	24.2	28.1	35.8
62.5°	86.8	75.1	58.7	38.9	28.1	18.6	15.5	14.3	15.5	18.6	24.6
65°	63.0	54.0	41.0	28.5	19.0	13.8	10.4	9.5	10.8	13.0	18.1
67.5°	43.2	36.3	28.5	19.9	13.0	8.6	7.3	7.3	7.8	9.5	13.4
70°	28.1	23.7	18.1	13.0	8.6	6.5	5.6	4.8	5.6	6.9	9.1
72.5°	17.7	15.1	11.7	9.1	6.5	4.8	3.9	3.5	4.3	5.2	6.9
75°	10.8	8.2	6.0	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: P245473

CATALOG NUMBER: LSR8B15D010 EC8B15840 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	813.4	813.4	813.4	813.4	813.4	813.4	813.4	813.4	813.4	813.4	813.4
2.5°	814.7	814.3	814.7	814.3	814.3	814.3	814.7	814.7	814.3	814.3	815.2
5°	818.2	818.2	818.2	817.7	817.3	817.3	818.2	818.2	816.9	818.2	818.2
7.5°	825.5	824.2	825.5	823.8	822.9	823.4	823.8	822.9	822.1	822.5	822.5
10°	835.0	833.7	833.7	832.4	831.1	830.3	829.4	827.2	825.1	824.7	822.9
12.5°	846.2	844.1	842.8	840.2	838.0	835.0	832.4	829.0	824.7	821.6	818.6
15°	857.5	854.0	851.0	846.7	841.9	836.7	831.1	825.5	818.6	812.6	807.4
17.5°	866.5	861.8	856.2	849.3	842.4	834.6	826.4	818.2	808.2	800.5	794.4
20°	869.6	862.7	855.3	846.2	837.2	826.4	816.0	805.2	794.0	785.8	778.9
22.5°	865.7	857.5	848.4	838.9	826.8	815.2	803.1	790.5	780.6	769.4	762.9
25°	854.9	844.9	835.0	823.8	812.1	799.2	786.2	773.3	761.2	755.1	746.9
27.5°	832.9	822.1	811.3	799.6	786.2	773.3	759.9	747.4	737.0	728.8	724.1
30°	794.0	781.5	769.0	756.4	744.8	731.4	718.9	708.5	698.1	691.7	686.9
32.5°	734.4	723.2	710.7	698.6	687.8	676.6	666.2	657.1	649.8	645.5	642.0
35°	654.1	642.9	633.4	624.8	615.7	610.9	604.5	599.3	596.3	594.5	594.1
37.5°	553.1	546.6	543.6	541.9	540.1	538.8	539.7	541.9	543.6	546.6	550.1
40°	445.1	450.7	452.5	458.5	464.1	471.5	479.7	489.2	496.9	506.9	513.8
42.5°	346.7	357.1	369.2	382.1	395.9	409.3	425.7	440.8	454.6	467.2	478.0
45°	266.4	282.4	300.5	319.1	337.6	357.1	376.9	395.5	411.9	425.3	436.5
47.5°	207.7	225.4	248.7	271.6	294.0	316.9	338.9	358.4	372.2	385.1	395.1
50°	164.5	184.8	210.3	236.6	261.2	285.4	308.7	326.8	340.7	351.0	358.4
52.5°	127.4	151.5	177.4	205.1	231.4	257.8	279.3	296.2	307.4	316.5	322.1
55°	95.0	118.7	146.4	174.9	201.6	227.1	247.4	262.1	272.0	277.2	280.2
57.5°	68.6	90.2	117.9	146.4	170.5	194.7	211.1	224.5	230.1	233.1	234.4
60°	50.1	69.9	94.6	119.2	142.0	161.5	175.7	184.8	189.1	190.8	190.4
62.5°	36.7	54.0	75.1	95.9	114.4	130.4	141.6	147.7	149.8	150.7	149.4
65°	28.1	41.4	59.6	75.6	89.8	101.5	109.7	113.6	114.8	114.4	113.6
67.5°	20.7	31.1	44.5	56.6	66.9	76.0	80.3	83.8	84.6	83.3	82.0
70°	14.7	22.9	32.4	40.6	48.4	53.5	58.3	58.7	58.7	58.3	57.4
72.5°	10.4	16.0	22.0	27.6	32.4	36.3	38.0	39.3	38.9	38.4	37.6
75°	6.9	9.9	16.0	17.3	21.6	22.9	24.6	24.6	25.0	23.7	23.7
77.5°	4.3	6.9	9.5	11.2	13.0	14.7	15.5	15.5	16.0	15.5	15.5
80°	2.6	4.3	5.2	7.8	7.8	9.1	9.5	9.9	9.1	10.4	9.1
82.5°	1.7	2.6	3.9	3.9	4.8	5.6	5.6	6.0	6.0	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: P245473

CATALOG NUMBER: LSR8B15D010 EC8B15840 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	813.4	813.4	813.4	813.4
2.5°	814.3	814.7	814.3	814.3
5°	818.2	817.7	818.2	817.3
7.5°	821.2	821.2	820.8	820.8
10°	821.2	819.5	819.5	819.5
12.5°	814.7	812.6	811.3	810.4
15°	803.5	799.6	797.9	797.4
17.5°	788.8	785.4	783.2	781.9
20°	772.0	768.5	765.9	766.4
22.5°	757.3	753.4	751.7	750.8
25°	742.6	737.9	736.6	735.7
27.5°	718.9	716.3	715.0	713.7
30°	682.6	681.3	679.2	682.2
32.5°	640.7	638.6	636.8	638.1
35°	594.5	593.2	594.5	593.7
37.5°	552.2	553.5	555.2	556.1
40°	519.0	523.7	525.4	526.3
42.5°	485.7	491.3	494.8	496.9
45°	444.7	450.3	454.2	456.8
47.5°	402.4	407.1	411.0	410.6
50°	364.0	366.6	368.3	370.0
52.5°	325.1	325.1	325.5	325.5
55°	281.1	280.2	279.8	280.2
57.5°	232.7	231.9	231.4	230.1
60°	188.7	186.1	184.4	184.4
62.5°	147.7	144.6	143.3	142.9
65°	111.0	110.5	107.9	107.5
67.5°	80.3	78.6	76.9	77.3
70°	56.6	54.0	54.0	53.1
72.5°	36.7	35.4	35.0	35.0
75°	22.9	22.9	22.0	23.7
77.5°	15.1	15.1	14.7	15.1
80°	9.1	9.1	9.1	8.6
82.5°	5.6	6.0	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

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