

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: P246192

Luminaire Tested: **LD8B10D010 ER8B10840 8LBDW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246192  
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: LD8B10D010 ER8B10840 8LBDW0MW  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 4000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1136.0 lumens  
Efficiency: N/A  
Efficacy: 111.4 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

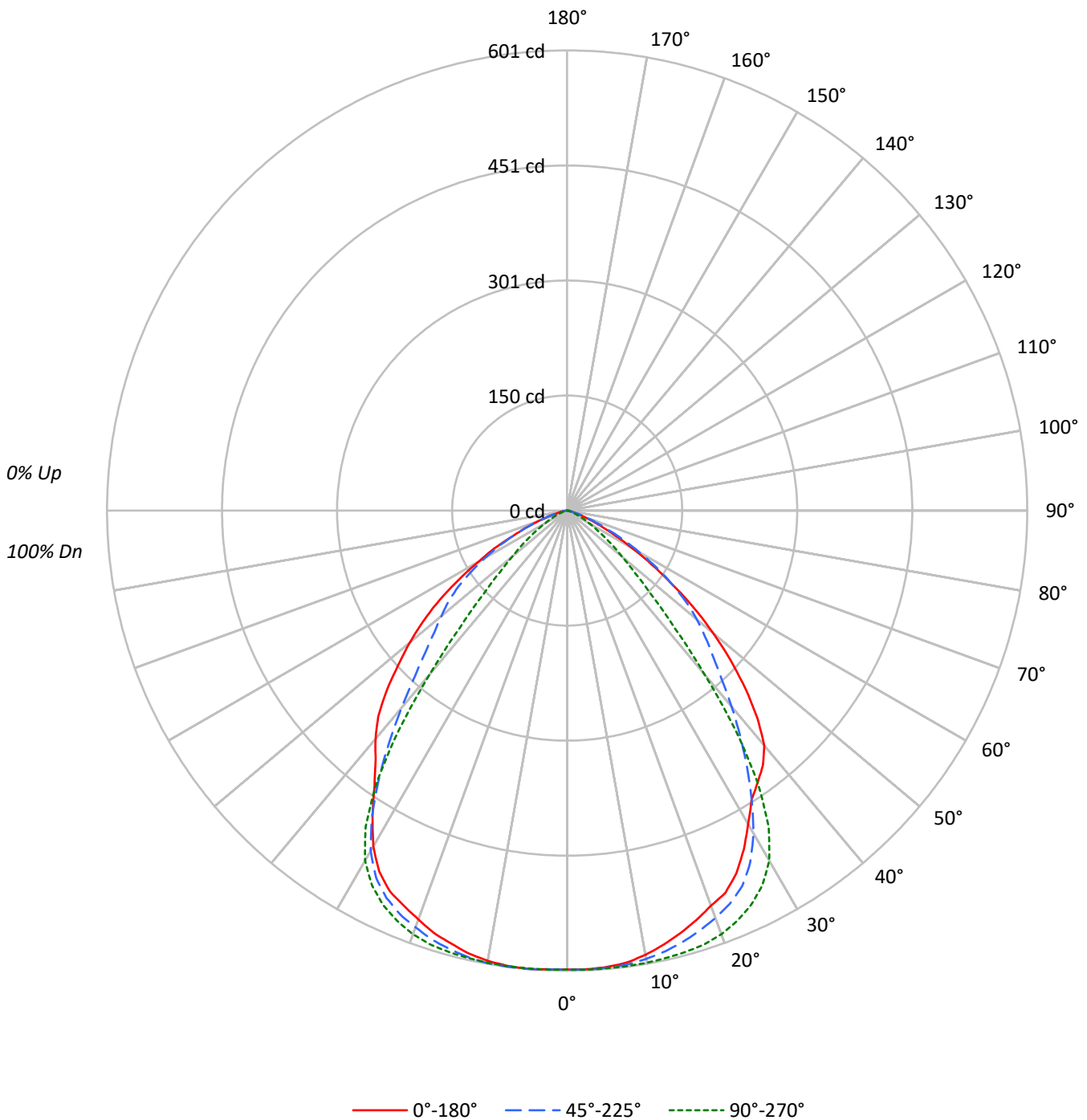
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	91	90					90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50					50			
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45					45			
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41					41			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34					34			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	18483	18483	18483
5°	18523	18572	18594
10°	18446	18778	18696
15°	18241	19052	18692
20°	18022	19322	18646
25°	17788	19343	18662
30°	16828	18800	18031
35°	16326	16338	16507
40°	16122	11243	15671
45°	14365	6751	14565
50°	11945	4490	12871
55°	8962	3097	10914
60°	6069	2066	8233
65°	3663	1335	5655
70°	2029	721	3480
75°	917	310	1799
80°	799	337	1261
85°	920	460	1238



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.2	5.0
10°-20°	166.1	14.6
20°-30°	252.1	22.2
30°-40°	264.8	23.3
40°-50°	198.5	17.5
50°-60°	127.4	11.2
60°-70°	54.5	4.8
70°-80°	12.9	1.1
80°-90°	2.4	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°	475.5	41.9
0°-40°	740.3	65.2
0°-60°	1066.2	93.9
0°-90°	1136.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1136.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	599	599	599	599	599	
5°	598	599	600	601	601	57
15°	571	583	597	593	586	161
25°	523	541	568	558	548	239
35°	434	410	434	429	438	272
45°	329	269	155	262	334	252
55°	167	167	58	174	203	151
65°	50	59	18	76	78	54
75°	8	9	3	15	15	11
85°	3	2	1	3	4	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4
2.5°	599.7	600.3	600.0	600.0	599.7	600.0	600.0	600.7	600.7	600.0	599.7
5°	598.4	599.1	599.1	598.4	598.4	600.0	599.1	599.7	599.7	599.4	599.4
7.5°	595.5	595.5	596.8	595.8	595.8	596.8	596.5	597.1	597.8	598.1	598.1
10°	589.1	589.7	590.0	590.0	590.4	591.3	592.0	593.3	593.9	594.6	594.9
12.5°	581.0	582.0	582.3	582.0	583.0	584.3	585.9	587.5	588.4	589.7	590.7
15°	571.4	571.4	572.0	573.0	573.6	575.6	577.2	579.1	581.7	583.3	584.9
17.5°	560.8	561.4	562.4	562.4	563.7	566.9	567.8	570.7	573.6	575.2	578.5
20°	549.2	549.8	550.8	551.4	553.0	555.6	557.6	560.1	563.3	566.2	569.5
22.5°	540.2	538.9	539.5	540.2	541.8	544.0	546.3	549.5	552.7	555.6	558.8
25°	522.8	523.1	524.1	524.7	526.7	528.6	531.2	535.0	537.9	541.1	544.7
27.5°	499.3	499.6	501.2	501.2	502.9	506.1	507.7	510.9	514.8	518.0	522.2
30°	472.6	473.3	473.3	474.5	475.5	477.1	478.7	481.9	483.9	486.8	492.6
32.5°	448.2	448.8	448.5	448.2	447.2	446.9	446.6	447.2	447.8	448.8	451.1
35°	433.7	432.1	430.8	428.5	426.0	422.7	419.9	416.0	412.5	409.6	406.3
37.5°	419.9	419.5	417.6	414.4	409.2	403.4	396.7	388.3	380.0	371.0	362.3
40°	400.5	399.6	398.0	393.5	387.7	380.6	371.6	361.3	347.8	334.0	319.8
42.5°	367.7	368.1	366.1	362.6	357.1	350.4	341.0	329.8	315.3	298.9	280.5
45°	329.4	329.4	328.8	325.9	322.0	316.6	309.5	300.2	286.0	269.3	249.7
47.5°	289.6	289.9	288.9	288.3	286.7	283.1	278.0	270.9	260.9	244.8	225.2
50°	249.0	249.0	250.6	250.3	250.3	249.0	246.8	242.6	233.9	221.0	202.7
52.5°	208.5	209.1	210.1	211.4	213.0	215.6	213.0	211.1	205.6	195.6	179.8
55°	166.7	167.3	168.9	171.2	173.1	175.7	176.3	176.3	173.4	166.7	154.8
57.5°	130.9	130.0	131.3	133.2	135.8	138.3	140.3	142.5	142.2	137.7	128.0
60°	98.4	98.8	99.7	101.7	103.6	105.8	108.4	110.4	111.3	109.1	103.0
62.5°	71.7	71.7	73.0	75.0	75.9	79.1	80.8	81.7	82.7	82.4	78.5
65°	50.2	50.8	51.5	52.4	53.4	55.3	56.3	58.2	58.9	59.2	56.3
67.5°	35.4	34.4	35.1	35.7	36.7	38.0	39.9	39.9	40.9	40.9	38.9
70°	22.5	22.5	22.8	23.8	24.5	24.8	25.4	26.1	27.0	26.7	26.7
72.5°	15.1	14.8	15.1	15.4	15.8	16.7	16.7	17.1	17.7	18.0	16.7
75°	7.7	8.0	8.7	8.4	9.3	8.7	9.0	10.0	9.7	9.0	9.0
77.5°	6.4	6.4	6.4	6.1	6.8	6.8	6.4	7.1	6.8	6.8	6.4
80°	4.5	4.8	4.5	4.2	4.5	4.2	4.2	4.2	4.2	4.2	3.9
82.5°	3.5	2.9	3.2	2.9	3.2	3.2	2.9	2.6	2.6	2.9	2.6
85°	2.6	1.9	2.3	2.3	1.9	1.9	1.9	1.9	1.9	1.6	1.6
87.5°	1.6	1.0	1.0	1.0	1.3	1.3	1.3	1.0	1.3	1.3	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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4
2.5°	600.3	600.0	600.7	600.3	600.3	600.0	600.3	600.0	600.7	599.4	599.7
5°	600.3	599.7	600.0	600.3	600.7	600.0	600.0	600.0	600.7	600.0	600.3
7.5°	599.1	598.7	599.7	600.3	600.0	599.7	600.3	600.0	600.7	600.3	601.0
10°	596.5	596.8	597.4	598.4	598.7	599.1	599.7	599.7	600.7	599.4	600.0
12.5°	592.6	593.9	595.5	596.2	597.4	597.4	598.1	598.4	599.1	598.7	599.7
15°	587.8	589.4	591.3	592.9	594.6	595.5	596.5	596.8	597.8	596.8	597.1
17.5°	582.0	583.9	586.8	588.8	591.3	592.3	593.6	594.2	595.2	594.6	594.9
20°	574.0	576.2	579.4	582.3	583.9	586.2	587.8	588.8	589.4	588.8	589.1
22.5°	562.7	565.9	570.1	572.4	575.6	577.5	577.8	580.1	581.7	580.1	580.7
25°	549.5	552.7	555.9	560.8	563.7	565.9	568.2	568.5	570.1	569.8	569.5
27.5°	527.6	531.8	537.3	541.1	545.0	548.5	551.1	551.8	553.4	552.7	553.0
30°	497.7	502.2	507.4	513.5	518.9	522.5	525.7	528.0	529.6	528.6	528.3
32.5°	455.2	459.7	465.2	471.3	477.8	482.9	486.8	489.7	491.6	491.0	489.3
35°	406.7	407.9	411.5	416.3	421.8	427.3	430.8	434.0	436.3	436.9	436.9
37.5°	356.8	352.6	350.0	350.0	353.3	355.5	358.7	360.7	364.2	365.5	366.4
40°	308.5	298.9	289.9	283.1	278.6	278.3	278.3	279.3	282.5	286.7	290.5
42.5°	265.4	250.0	236.1	223.6	214.6	209.4	207.2	207.5	210.1	213.9	220.4
45°	231.0	211.7	194.3	179.2	167.0	158.9	155.1	154.8	156.7	161.2	168.3
47.5°	204.3	183.7	164.1	146.7	133.5	124.8	120.3	119.0	120.3	124.5	132.9
50°	182.1	160.9	140.6	122.6	108.4	99.4	95.2	93.6	95.2	98.8	107.1
52.5°	161.5	139.6	120.6	103.3	88.2	80.4	75.9	75.0	75.9	80.1	86.9
55°	137.7	119.0	100.4	83.0	69.8	62.1	58.6	57.6	58.6	62.4	69.5
57.5°	114.2	98.1	81.7	66.0	54.7	47.9	44.7	43.4	45.7	48.3	56.6
60°	92.3	79.5	65.6	51.8	42.5	36.4	33.8	33.5	34.1	37.3	43.1
62.5°	72.4	61.8	50.8	39.6	31.9	29.3	26.1	25.7	26.4	28.3	32.8
65°	52.1	45.4	37.0	29.0	22.8	19.3	18.0	18.3	19.0	20.3	24.5
67.5°	36.4	31.5	25.7	20.3	15.8	14.2	12.9	12.5	12.9	15.1	17.4
70°	24.5	21.6	17.4	15.4	10.9	8.7	9.0	8.0	9.3	9.3	11.3
72.5°	16.1	14.2	11.6	9.0	7.7	6.1	6.1	5.8	6.4	6.8	8.4
75°	8.4	6.4	6.4	4.5	3.2	1.6	2.9	2.6	2.3	2.6	3.2
77.5°	5.8	4.8	4.5	3.5	3.2	2.6	2.6	2.6	2.6	2.9	3.2
80°	3.5	3.5	2.6	2.3	1.9	1.6	1.9	1.9	1.9	1.9	2.3
82.5°	2.3	1.9	1.9	1.6	1.6	1.3	1.3	1.3	1.3	1.3	1.9
85°	1.9	1.3	1.3	1.0	1.3	2.3	1.0	1.3	1.3	1.3	1.0
87.5°	0.6	1.0	1.0	1.0	0.6	0.3	0.6	1.0	1.0	1.6	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4
2.5°	600.3	600.7	600.7	600.3	600.3	599.7	601.0	600.0	600.3	601.6	600.7
5°	601.0	601.3	601.3	601.0	601.0	601.0	601.3	601.3	601.0	600.7	601.3
7.5°	602.3	602.0	602.0	601.3	601.3	600.7	601.3	600.3	601.0	600.3	601.3
10°	600.7	601.0	600.7	600.3	600.3	600.0	600.0	599.1	599.4	598.4	599.1
12.5°	599.7	599.4	599.4	598.7	598.1	597.4	597.1	596.2	596.2	593.9	594.9
15°	597.1	597.4	596.5	595.2	594.6	592.9	592.3	591.0	589.7	588.1	588.4
17.5°	594.9	593.9	592.6	591.3	588.8	587.5	586.2	584.3	583.6	581.7	581.0
20°	588.1	587.5	585.9	583.6	582.0	579.1	577.8	575.9	574.3	572.4	571.4
22.5°	579.4	578.8	576.9	574.6	572.0	570.7	569.5	565.9	564.3	562.4	562.1
25°	568.5	567.5	565.6	563.0	561.7	558.2	556.9	554.3	553.7	551.8	551.4
27.5°	551.8	550.5	548.2	545.0	542.8	540.5	539.2	537.3	536.6	534.7	534.4
30°	526.7	525.1	520.6	519.3	515.4	513.2	513.2	510.6	510.9	509.6	509.6
32.5°	487.1	484.5	481.0	478.4	475.8	474.5	474.5	473.6	474.2	474.2	474.9
35°	434.7	431.1	429.2	427.6	427.6	428.9	432.7	433.7	435.6	437.2	438.5
37.5°	367.4	367.1	369.3	371.3	376.1	381.6	388.3	394.1	399.6	403.4	407.3
40°	294.7	302.7	309.2	318.2	325.6	336.2	348.4	358.4	367.7	374.5	381.6
42.5°	230.0	240.3	253.8	267.0	280.2	294.7	310.8	324.6	336.8	346.2	353.6
45°	179.2	193.4	209.8	226.5	243.5	261.6	278.3	292.4	305.3	315.0	322.4
47.5°	144.5	159.9	178.6	196.9	216.2	235.2	253.8	266.1	276.7	284.4	291.2
50°	119.4	135.8	155.4	176.3	195.6	214.6	230.7	242.6	251.3	258.0	262.2
52.5°	99.7	117.1	138.0	158.9	178.2	195.6	210.1	219.1	226.2	231.0	234.9
55°	82.4	99.1	118.7	138.3	157.3	173.7	185.6	192.4	197.9	200.8	203.0
57.5°	67.2	82.7	100.7	118.7	135.1	148.6	158.0	164.7	167.3	169.5	169.2
60°	52.8	67.2	83.6	99.1	113.2	124.2	130.9	134.8	136.7	137.7	137.1
62.5°	41.5	54.7	67.2	80.8	91.0	100.4	106.8	106.8	107.8	108.1	109.1
65°	30.9	40.9	51.8	61.8	70.1	76.2	79.8	80.8	82.0	81.7	81.1
67.5°	22.8	30.2	38.3	45.7	51.5	55.3	57.9	60.2	59.8	59.2	58.9
70°	15.8	20.6	27.7	32.2	36.4	40.2	40.9	41.2	41.5	41.8	41.2
72.5°	10.9	14.5	18.3	22.2	24.8	26.4	28.0	28.3	28.3	28.3	28.0
75°	5.5	7.4	10.9	12.5	14.8	15.4	16.7	16.7	17.7	16.4	16.1
77.5°	4.8	5.8	7.7	9.0	10.0	10.9	11.3	12.2	11.9	11.3	11.6
80°	2.9	3.5	4.8	5.5	6.8	7.1	7.4	7.7	7.4	7.7	7.7
82.5°	2.3	2.6	3.2	3.2	4.2	4.2	4.5	4.5	4.8	4.8	4.8
85°	1.3	2.3	1.9	3.9	2.6	2.6	3.2	3.9	3.2	3.2	3.9
87.5°	1.3	1.3	1.0	1.3	1.3	1.3	1.6	1.9	1.9	2.3	1.9
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: P246192

CATALOG NUMBER: LD8B10D010 ER8B10840 8LBDW0MW

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	599.4	599.4	599.4	599.4
2.5°	600.3	601.0	600.0	599.7
5°	601.3	601.3	600.7	600.7
7.5°	601.3	601.3	600.3	599.7
10°	598.7	598.7	597.8	597.1
12.5°	593.9	593.9	593.6	592.6
15°	587.8	587.8	586.5	585.5
17.5°	579.4	580.1	578.5	578.5
20°	570.4	570.1	568.8	568.2
22.5°	561.1	560.4	560.1	558.2
25°	551.1	550.5	549.5	548.5
27.5°	534.1	533.7	532.8	531.5
30°	508.0	507.7	506.4	506.4
32.5°	474.2	473.9	472.6	472.9
35°	439.2	440.4	439.8	438.5
37.5°	409.9	410.8	411.5	410.8
40°	385.4	388.3	388.6	389.3
42.5°	359.4	363.2	364.5	365.2
45°	328.2	331.7	334.6	334.0
47.5°	296.3	298.9	301.5	299.5
50°	265.7	267.4	268.3	268.3
52.5°	236.8	236.8	236.5	236.8
55°	203.7	203.7	202.4	203.0
57.5°	168.9	169.5	168.6	167.0
60°	136.7	135.1	134.5	133.5
62.5°	106.5	106.5	104.2	107.1
65°	79.8	78.8	77.9	77.5
67.5°	57.9	57.6	56.6	56.3
70°	40.9	39.6	39.3	38.6
72.5°	27.3	27.3	26.7	26.7
75°	16.7	15.1	14.8	15.1
77.5°	11.6	11.3	11.3	10.9
80°	7.7	7.4	8.0	7.1
82.5°	4.8	5.1	4.8	5.1
85°	3.2	3.9	3.5	3.5
87.5°	1.9	1.9	1.9	1.9
90°	0.0	0.0	0.0	0.0

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