

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: P249333

Luminaire Tested: **LD8B200D010 ER8B200840 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249333
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: LD8B200D010 ER8B200840 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21280.0 lumens
Efficiency: N/A
Efficacy: 95.3 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

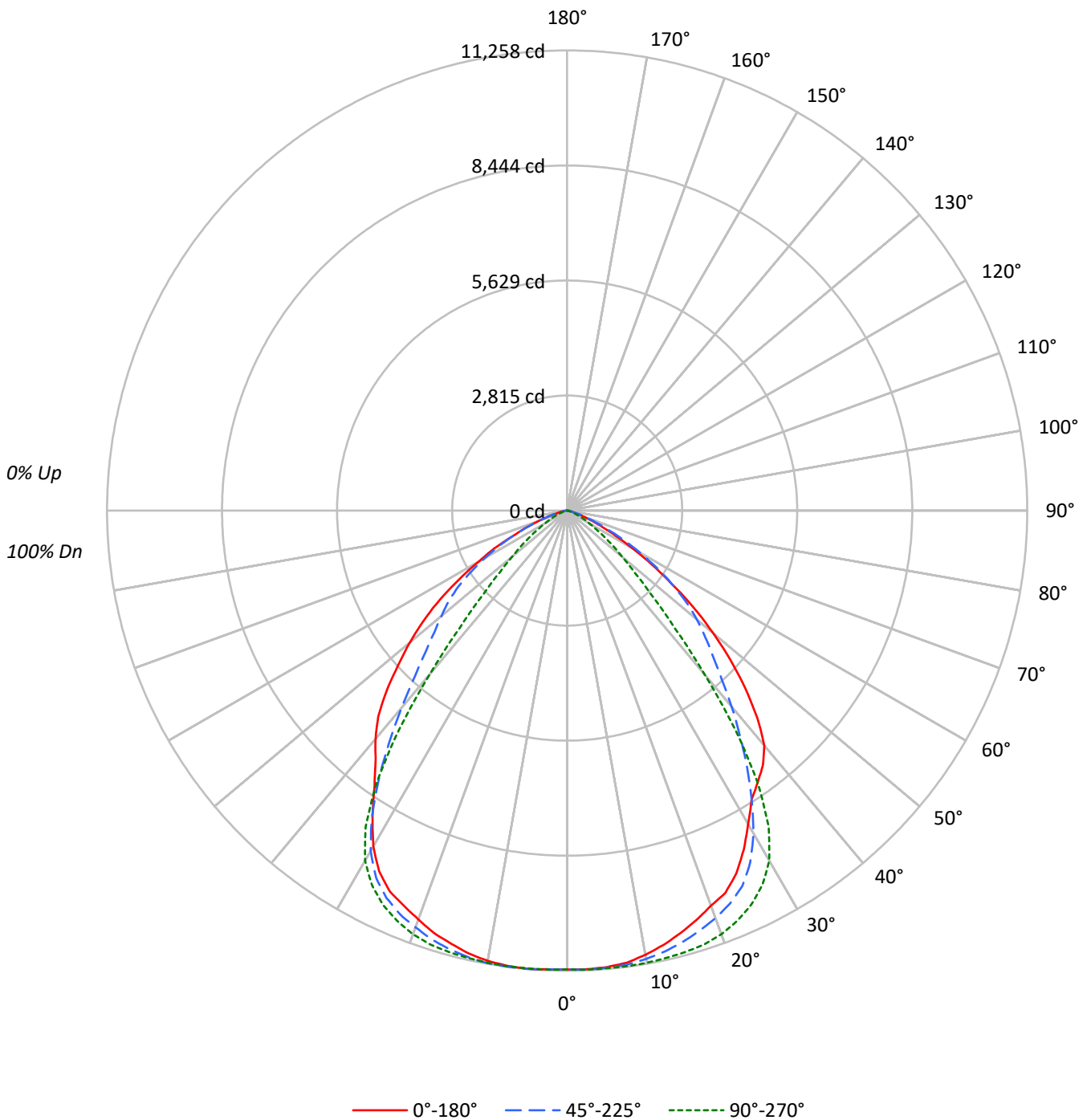
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	346221	346221	346221
5°	346983	347918	348292
10°	345525	351753	350244
15°	341696	356895	350166
20°	337594	361914	349260
25°	333212	362330	349618
30°	315237	352143	337769
35°	305825	306047	309228
40°	302037	210572	293548
45°	269129	126414	272806
50°	223779	84135	241126
55°	167833	57998	204444
60°	113737	38650	154249
65°	68602	25071	105974
70°	38038	13587	65203
75°	17240	5743	33753
80°	14988	6411	23547
85°	17053	8491	23493



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1071.5	5.0
10°-20°	3111.9	14.6
20°-30°	4723.2	22.2
30°-40°	4960.8	23.3
40°-50°	3719.3	17.5
50°-60°	2386.4	11.2
60°-70°	1020.9	4.8
70°-80°	241.2	1.1
80°-90°	44.9	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°	8906.6	41.9
0°-40°	13867.4	65.2
0°-60°	19973.1	93.9
0°-90°	21280.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21280.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11228	11228	11228	11228	11228	
5°	11210	11228	11240	11258	11252	###
15°	10703	10926	11180	11107	10969	3019
25°	9793	10137	10649	10456	10276	4474
35°	8124	7672	8130	8034	8214	5099
45°	6171	5044	2899	4900	6256	4726
55°	3122	3122	1079	3254	3803	2832
65°	940	1109	344	1428	1452	1004
75°	145	169	48	289	283	211
85°	48	30	24	48	66	51
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°	11227.7	11227.7	11227.7	11227.7	11227.7	11227.7	11227.7	11227.7	11227.7	11227.7	11227.7
2.5°	11233.8	11245.9	11239.8	11239.8	11233.8	11239.8	11239.8	11251.9	11251.9	11239.8	11233.8
5°	11209.6	11221.7	11221.7	11209.6	11209.6	11239.8	11221.7	11233.8	11233.8	11227.7	11227.7
7.5°	11155.5	11155.5	11179.5	11161.5	11161.5	11179.5	11173.5	11185.6	11197.7	11203.7	11203.7
10°	11034.9	11047.0	11053.0	11053.0	11059.0	11077.0	11089.1	11113.3	11125.3	11137.4	11143.4
12.5°	10884.3	10902.3	10908.3	10902.3	10920.4	10944.5	10974.7	11004.8	11022.9	11047.0	11065.1
15°	10703.4	10703.4	10715.5	10733.6	10745.7	10781.8	10811.9	10848.0	10896.2	10926.5	10956.6
17.5°	10504.6	10516.7	10534.7	10534.7	10558.8	10619.0	10637.2	10691.4	10745.7	10775.8	10836.1
20°	10287.7	10299.6	10317.7	10329.8	10359.9	10408.1	10444.3	10492.5	10552.8	10607.1	10667.2
22.5°	10118.8	10094.8	10106.7	10118.8	10149.0	10191.2	10233.4	10293.6	10353.9	10408.1	10468.5
25°	9793.4	9799.4	9817.5	9829.5	9865.8	9901.9	9950.1	10022.4	10076.6	10137.0	10203.2
27.5°	9353.5	9359.5	9389.6	9389.6	9419.7	9480.0	9510.1	9570.4	9642.8	9703.0	9781.4
30°	8853.3	8865.2	8865.2	8889.4	8907.4	8937.6	8967.7	9028.0	9064.2	9118.4	9227.0
32.5°	8395.3	8407.2	8401.2	8395.3	8377.1	8371.1	8365.0	8377.1	8389.2	8407.2	8449.4
35°	8124.1	8093.8	8069.8	8027.6	7979.4	7919.1	7864.8	7792.6	7726.2	7672.0	7611.8
37.5°	7864.8	7858.8	7822.7	7762.3	7665.9	7557.5	7431.0	7274.2	7117.5	6948.8	6786.1
40°	7503.3	7485.1	7455.0	7370.7	7262.2	7129.6	6960.9	6768.0	6514.8	6255.7	5990.6
42.5°	6888.5	6894.5	6858.4	6792.0	6689.7	6563.0	6388.3	6177.4	5906.2	5598.8	5255.3
45°	6171.4	6171.4	6159.3	6105.0	6032.7	5930.3	5797.7	5622.9	5357.8	5044.3	4676.7
47.5°	5424.0	5430.1	5411.9	5400.0	5369.7	5303.5	5207.1	5074.5	4887.7	4586.3	4218.6
50°	4664.7	4664.7	4694.8	4688.8	4688.8	4664.7	4622.5	4544.1	4381.4	4140.3	3796.9
52.5°	3905.3	3917.4	3935.5	3959.6	3989.6	4037.9	3989.6	3953.5	3851.0	3664.2	3369.0
55°	3121.8	3133.9	3164.0	3206.2	3242.4	3290.7	3302.6	3302.6	3248.3	3121.8	2898.8
57.5°	2452.9	2434.8	2459.0	2495.1	2543.3	2591.5	2627.7	2669.8	2663.8	2579.4	2398.6
60°	1844.2	1850.2	1868.2	1904.5	1940.6	1982.8	2031.0	2067.1	2085.3	2043.1	1928.5
62.5°	1344.0	1344.0	1368.0	1404.2	1422.3	1482.6	1512.7	1530.8	1548.8	1542.8	1470.5
65°	940.2	952.2	964.3	982.4	1000.4	1036.5	1054.7	1090.8	1102.9	1108.9	1054.7
67.5°	663.0	644.9	656.9	668.9	687.0	711.2	747.3	747.3	765.3	765.3	729.2
70°	421.9	421.9	427.9	445.9	458.0	464.1	476.2	488.1	506.2	500.2	500.2
72.5°	283.3	277.2	283.3	289.3	295.4	313.4	313.4	319.4	331.5	337.5	313.4
75°	144.7	150.7	162.7	156.8	174.7	162.7	168.7	186.8	180.8	168.7	168.7
77.5°	120.5	120.5	120.5	114.6	126.5	126.5	120.5	132.6	126.5	126.5	120.5
80°	84.4	90.4	84.4	78.3	84.4	78.3	78.3	78.3	78.3	78.3	72.3
82.5°	66.4	54.3	60.3	54.3	60.3	60.3	54.3	48.2	48.2	54.3	48.2
85°	48.2	36.1	42.2	42.2	36.1	36.1	36.1	36.1	36.1	30.1	30.1
87.5°	30.1	18.1	18.1	18.1	24.0	24.0	24.0	18.1	24.0	24.0	12.1
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°	11227.7	11227.7	11227.7	11227.7	11227.7	11227.7	11227.7	11227.7	11227.7	11227.7	11227.7
2.5°	11245.9	11239.8	11251.9	11245.9	11245.9	11239.8	11245.9	11239.8	11251.9	11227.7	11233.8
5°	11245.9	11233.8	11239.8	11245.9	11251.9	11239.8	11239.8	11239.8	11251.9	11239.8	11245.9
7.5°	11221.7	11215.7	11233.8	11245.9	11239.8	11233.8	11245.9	11239.8	11251.9	11245.9	11257.8
10°	11173.5	11179.5	11191.6	11209.6	11215.7	11221.7	11233.8	11233.8	11251.9	11227.7	11239.8
12.5°	11101.2	11125.3	11155.5	11167.4	11191.6	11191.6	11203.7	11209.6	11221.7	11215.7	11233.8
15°	11010.8	11040.9	11077.0	11107.3	11137.4	11155.5	11173.5	11179.5	11197.7	11179.5	11185.6
17.5°	10902.3	10938.4	10992.7	11028.8	11077.0	11095.2	11119.2	11131.3	11149.4	11137.4	11143.4
20°	10751.6	10793.9	10854.1	10908.3	10938.4	10980.6	11010.8	11028.8	11040.9	11028.8	11034.9
22.5°	10540.7	10601.0	10679.3	10721.5	10781.8	10817.9	10824.0	10866.2	10896.2	10866.2	10878.3
25°	10293.6	10353.9	10414.2	10504.6	10558.8	10601.0	10643.2	10649.2	10679.3	10673.3	10667.2
27.5°	9883.8	9962.2	10064.6	10137.0	10209.2	10275.6	10323.8	10335.7	10366.0	10353.9	10359.9
30°	9323.3	9407.7	9504.2	9618.6	9721.1	9787.3	9847.6	9889.8	9919.9	9901.9	9895.9
32.5°	8527.8	8612.2	8714.7	8829.1	8949.7	9046.0	9118.4	9172.7	9208.8	9196.7	9166.6
35°	7617.8	7641.9	7708.2	7798.6	7901.0	8003.5	8069.8	8130.0	8172.2	8184.2	8184.2
37.5°	6683.6	6605.3	6557.1	6557.1	6617.3	6659.5	6719.8	6755.9	6822.3	6846.3	6864.4
40°	5779.6	5598.8	5430.1	5303.5	5219.2	5213.1	5213.1	5231.1	5291.4	5369.7	5442.1
42.5°	4972.0	4682.7	4423.6	4188.6	4019.9	3923.4	3881.2	3887.3	3935.5	4007.8	4128.3
45°	4327.2	3965.6	3640.1	3356.9	3127.9	2977.1	2904.9	2898.8	2935.0	3019.3	3152.0
47.5°	3827.0	3441.2	3073.6	2748.1	2501.1	2338.3	2254.0	2229.9	2254.0	2332.3	2489.0
50°	3411.1	3013.4	2633.7	2296.2	2031.0	1862.3	1783.9	1753.8	1783.9	1850.2	2006.8
52.5°	3025.4	2615.6	2260.0	1934.6	1651.3	1506.6	1422.3	1404.2	1422.3	1500.6	1627.3
55°	2579.4	2229.9	1880.3	1554.9	1307.9	1163.2	1096.8	1078.8	1096.8	1169.2	1301.8
57.5°	2139.5	1838.1	1530.8	1235.5	1024.6	897.9	837.7	813.6	855.7	904.0	1060.7
60°	1729.6	1488.6	1229.4	970.3	795.6	681.0	632.8	626.7	638.8	699.1	807.5
62.5°	1356.1	1157.1	952.2	741.3	596.6	548.4	488.1	482.2	494.2	530.3	614.8
65°	976.4	849.8	693.1	542.4	427.9	361.6	337.5	343.6	355.5	379.7	458.0
67.5°	681.0	590.6	482.2	379.7	295.4	265.1	241.1	235.1	241.1	283.3	325.5
70°	458.0	403.8	325.5	289.3	205.0	162.7	168.7	150.7	174.7	174.7	210.9
72.5°	301.3	265.1	216.9	168.7	144.7	114.6	114.6	108.5	120.5	126.5	156.8
75°	156.8	120.5	120.5	84.4	60.3	30.1	54.3	48.2	42.2	48.2	60.3
77.5°	108.5	90.4	84.4	66.4	60.3	48.2	48.2	48.2	48.2	54.3	60.3
80°	66.4	66.4	48.2	42.2	36.1	30.1	36.1	36.1	36.1	36.1	42.2
82.5°	42.2	36.1	36.1	30.1	30.1	24.0	24.0	24.0	24.0	24.0	36.1
85°	36.1	24.0	24.0	18.1	24.0	42.2	18.1	24.0	24.0	24.0	18.1
87.5°	12.1	18.1	18.1	18.1	12.1	6.0	12.1	18.1	18.1	30.1	24.0
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°	11227.7	11227.7	11227.7	11227.7	11227.7	11227.7	11227.7	11227.7	11227.7	11227.7	11227.7
2.5°	11245.9	11251.9	11251.9	11245.9	11245.9	11233.8	11257.8	11239.8	11245.9	11269.9	11251.9
5°	11257.8	11263.9	11263.9	11257.8	11257.8	11257.8	11263.9	11263.9	11257.8	11251.9	11263.9
7.5°	11282.0	11276.0	11276.0	11263.9	11263.9	11251.9	11263.9	11245.9	11257.8	11245.9	11263.9
10°	11251.9	11257.8	11251.9	11245.9	11245.9	11239.8	11239.8	11221.7	11227.7	11209.6	11221.7
12.5°	11233.8	11227.7	11227.7	11215.7	11203.7	11191.6	11185.6	11167.4	11167.4	11125.3	11143.4
15°	11185.6	11191.6	11173.5	11149.4	11137.4	11107.3	11095.2	11071.0	11047.0	11016.9	11022.9
17.5°	11143.4	11125.3	11101.2	11077.0	11028.8	11004.8	10980.6	10944.5	10932.4	10896.2	10884.3
20°	11016.9	11004.8	10974.7	10932.4	10902.3	10848.0	10824.0	10787.9	10757.6	10721.5	10703.4
22.5°	10854.1	10842.0	10805.9	10763.7	10715.5	10691.4	10667.2	10601.0	10570.8	10534.7	10528.6
25°	10649.2	10631.1	10595.0	10546.8	10522.6	10456.4	10432.2	10384.0	10372.0	10335.7	10329.8
27.5°	10335.7	10311.7	10269.5	10209.2	10167.0	10124.9	10100.8	10064.6	10052.6	10016.3	10010.4
30°	9865.8	9835.5	9751.2	9727.2	9654.8	9612.6	9612.6	9564.4	9570.4	9546.4	9546.4
32.5°	9124.5	9076.2	9009.9	8961.7	8913.5	8889.4	8889.4	8871.3	8883.4	8883.4	8895.5
35°	8142.1	8075.9	8039.6	8009.5	8009.5	8033.5	8105.9	8124.1	8160.2	8190.3	8214.5
37.5°	6882.4	6876.5	6918.7	6954.8	7045.2	7147.7	7274.2	7382.8	7485.1	7557.5	7629.8
40°	5520.5	5671.2	5791.6	5960.5	6099.0	6297.9	6526.9	6713.7	6888.5	7015.1	7147.7
42.5°	4309.0	4501.9	4755.1	5002.1	5249.3	5520.5	5821.9	6081.0	6310.0	6484.7	6623.3
45°	3356.9	3622.0	3929.5	4242.8	4562.2	4899.8	5213.1	5478.3	5719.4	5900.2	6038.8
47.5°	2706.0	2995.3	3344.8	3688.4	4049.9	4405.5	4755.1	4984.1	5182.9	5327.6	5454.2
50°	2235.8	2543.3	2910.9	3302.6	3664.2	4019.9	4321.1	4544.1	4706.9	4833.4	4911.7
52.5°	1868.2	2193.7	2585.5	2977.1	3338.7	3664.2	3935.5	4104.2	4236.8	4327.2	4399.4
55°	1542.8	1856.3	2223.9	2591.5	2947.1	3254.4	3477.3	3604.0	3706.4	3760.6	3802.8
57.5°	1259.6	1548.8	1886.4	2223.9	2531.2	2784.4	2959.2	3085.7	3133.9	3176.1	3170.0
60°	988.4	1259.6	1567.0	1856.3	2121.4	2326.2	2452.9	2525.2	2561.3	2579.4	2567.3
62.5°	777.4	1024.6	1259.6	1512.7	1705.6	1880.3	2000.9	2000.9	2018.9	2025.0	2043.1
65°	578.5	765.3	970.3	1157.1	1313.8	1428.3	1494.7	1512.7	1536.9	1530.8	1518.7
67.5°	427.9	566.6	717.1	855.7	964.3	1036.5	1084.7	1127.1	1121.0	1108.9	1102.9
70°	295.4	385.8	518.3	602.7	681.0	753.4	765.3	771.4	777.4	783.5	771.4
72.5°	205.0	271.2	343.6	415.8	464.1	494.2	524.4	530.3	530.3	530.3	524.4
75°	102.5	138.6	205.0	235.1	277.2	289.3	313.4	313.4	331.5	307.3	301.3
77.5°	90.4	108.5	144.7	168.7	186.8	205.0	210.9	229.0	223.0	210.9	216.9
80°	54.3	66.4	90.4	102.5	126.5	132.6	138.6	144.7	138.6	144.7	144.7
82.5°	42.2	48.2	60.3	60.3	78.3	78.3	84.4	84.4	90.4	90.4	90.4
85°	24.0	42.2	36.1	72.3	48.2	48.2	60.3	72.3	60.3	60.3	72.3
87.5°	24.0	24.0	18.1	24.0	24.0	24.0	30.1	36.1	36.1	42.2	36.1
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: P249333

CATALOG NUMBER: LD8B200D010 ER8B200840 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	11227.7	11227.7	11227.7	11227.7
2.5°	11245.9	11257.8	11239.8	11233.8
5°	11263.9	11263.9	11251.9	11251.9
7.5°	11263.9	11263.9	11245.9	11233.8
10°	11215.7	11215.7	11197.7	11185.6
12.5°	11125.3	11125.3	11119.2	11101.2
15°	11010.8	11010.8	10986.6	10968.7
17.5°	10854.1	10866.2	10836.1	10836.1
20°	10685.4	10679.3	10655.3	10643.2
22.5°	10510.6	10498.5	10492.5	10456.4
25°	10323.8	10311.7	10293.6	10275.6
27.5°	10004.4	9998.3	9980.2	9956.2
30°	9516.1	9510.1	9486.1	9486.1
32.5°	8883.4	8877.3	8853.3	8859.3
35°	8226.4	8250.6	8238.5	8214.5
37.5°	7678.0	7696.1	7708.2	7696.1
40°	7220.0	7274.2	7280.3	7292.4
42.5°	6731.9	6804.1	6828.3	6840.3
45°	6147.2	6213.5	6267.8	6255.7
47.5°	5550.5	5598.8	5647.0	5610.9
50°	4978.1	5008.2	5026.3	5026.3
52.5°	4435.7	4435.7	4429.7	4435.7
55°	3814.9	3814.9	3790.8	3802.8
57.5°	3164.0	3176.1	3157.9	3127.9
60°	2561.3	2531.2	2519.1	2501.1
62.5°	1994.9	1994.9	1952.7	2006.8
65°	1494.7	1476.6	1458.4	1452.4
67.5°	1084.7	1078.8	1060.7	1054.7
70°	765.3	741.3	735.3	723.2
72.5°	512.3	512.3	500.2	500.2
75°	313.4	283.3	277.2	283.3
77.5°	216.9	210.9	210.9	205.0
80°	144.7	138.6	150.7	132.6
82.5°	90.4	96.4	90.4	96.4
85°	60.3	72.3	66.4	66.4
87.5°	36.1	36.1	36.1	36.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)