

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: P249330

Luminaire Tested: **LD8B120D010 ER8B120840 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249330
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: LD8B120D010 ER8B120840 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: 12142.0 lumens
Efficiency: N/A
Efficacy: 102.6 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

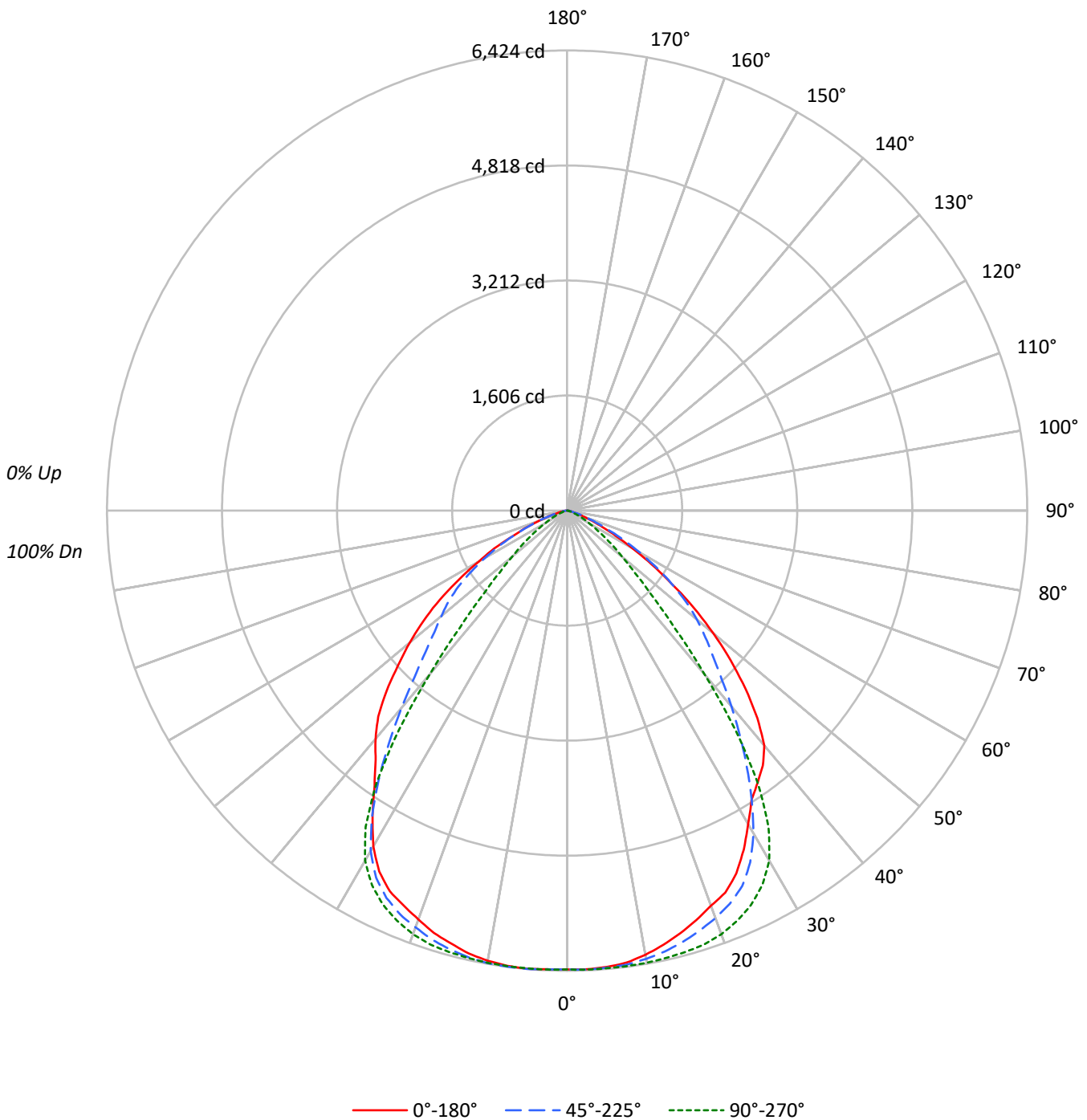
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	197550	197550	197550
5°	197982	198518	198732
10°	197150	200704	199843
15°	194967	203637	199797
20°	192626	206504	199281
25°	190123	206741	199487
30°	179867	200929	192725
35°	174500	174624	176438
40°	172335	120150	167493
45°	153561	72130	155658
50°	127684	48006	137581
55°	95765	33096	116652
60°	64898	22054	88013
65°	39146	14301	60466
70°	21701	7754	37200
75°	9829	3276	19253
80°	8542	3658	13425
85°	9730	4847	13409



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	611.4	5.0
10°-20°	1775.6	14.6
20°-30°	2695.0	22.2
30°-40°	2830.6	23.3
40°-50°	2122.2	17.5
50°-60°	1361.6	11.2
60°-70°	582.5	4.8
70°-80°	137.6	1.1
80°-90°	25.6	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°	5082.0	41.9
0°-40°	7912.5	65.2
0°-60°	11396.3	93.9
0°-90°	12142.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12142.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6406	6406	6406	6406	6406	
5°	6396	6406	6413	6424	6420	608
15°	6107	6234	6379	6338	6258	1723
25°	5588	5784	6076	5966	5863	2553
35°	4636	4378	4639	4584	4687	2909
45°	3521	2878	1654	2796	3569	2697
55°	1781	1781	616	1857	2170	1616
65°	536	633	196	815	829	573
75°	82	96	28	165	162	120
85°	28	17	14	28	38	29
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°	6406.4	6406.4	6406.4	6406.4	6406.4	6406.4	6406.4	6406.4	6406.4	6406.4	6406.4
2.5°	6409.8	6416.7	6413.3	6413.3	6409.8	6413.3	6413.3	6420.2	6420.2	6413.3	6409.8
5°	6396.0	6402.9	6402.9	6396.0	6396.0	6413.3	6402.9	6409.8	6409.8	6406.4	6406.4
7.5°	6365.1	6365.1	6378.8	6368.6	6368.6	6378.8	6375.4	6382.3	6389.2	6392.6	6392.6
10°	6296.3	6303.2	6306.7	6306.7	6310.1	6320.4	6327.3	6341.1	6347.9	6354.8	6358.2
12.5°	6210.4	6220.7	6224.1	6220.7	6231.0	6244.7	6262.0	6279.1	6289.5	6303.2	6313.5
15°	6107.2	6107.2	6114.1	6124.4	6131.3	6151.9	6169.1	6189.7	6217.2	6234.5	6251.6
17.5°	5993.7	6000.6	6010.9	6010.9	6024.7	6059.0	6069.4	6100.3	6131.3	6148.5	6182.9
20°	5870.0	5876.8	5887.1	5894.0	5911.2	5938.7	5959.3	5986.8	6021.2	6052.2	6086.5
22.5°	5773.6	5759.9	5766.7	5773.6	5790.9	5814.9	5839.0	5873.3	5907.7	5938.7	5973.1
25°	5587.9	5591.4	5601.7	5608.5	5629.2	5649.9	5677.4	5718.6	5749.6	5784.0	5821.8
27.5°	5336.9	5340.4	5357.5	5357.5	5374.7	5409.1	5426.3	5460.7	5502.0	5536.3	5581.1
30°	5051.5	5058.3	5058.3	5072.1	5082.4	5099.7	5116.8	5151.2	5171.9	5202.8	5264.7
32.5°	4790.2	4797.0	4793.6	4790.2	4779.8	4776.4	4772.9	4779.8	4786.7	4797.0	4821.1
35°	4635.5	4618.2	4604.5	4580.4	4552.9	4518.5	4487.5	4446.3	4408.4	4377.5	4343.2
37.5°	4487.5	4484.1	4463.5	4429.1	4374.0	4312.2	4240.0	4150.6	4061.1	3964.9	3872.1
40°	4281.2	4270.9	4253.7	4205.6	4143.7	4068.0	3971.8	3861.7	3717.2	3569.4	3418.1
42.5°	3930.4	3933.9	3913.3	3875.4	3817.0	3744.7	3645.0	3524.7	3370.0	3194.6	2998.6
45°	3521.3	3521.3	3514.4	3483.4	3442.2	3383.7	3308.1	3208.4	3057.1	2878.2	2668.4
47.5°	3094.8	3098.3	3088.0	3081.1	3063.9	3026.1	2971.1	2895.4	2788.8	2616.8	2407.1
50°	2661.6	2661.6	2678.8	2675.3	2675.3	2661.6	2637.5	2592.8	2500.0	2362.4	2166.4
52.5°	2228.3	2235.2	2245.5	2259.3	2276.4	2303.9	2276.4	2255.8	2197.3	2090.7	1922.3
55°	1781.3	1788.1	1805.3	1829.4	1850.1	1877.6	1884.4	1884.4	1853.4	1781.3	1654.0
57.5°	1399.6	1389.2	1403.0	1423.7	1451.2	1478.7	1499.3	1523.4	1519.9	1471.8	1368.6
60°	1052.3	1055.7	1066.0	1086.7	1107.3	1131.4	1158.9	1179.5	1189.8	1165.8	1100.4
62.5°	766.9	766.9	780.6	801.2	811.5	845.9	863.1	873.5	883.7	880.3	839.0
65°	536.5	543.3	550.2	560.5	570.8	591.4	601.8	622.4	629.3	632.7	601.8
67.5°	378.3	367.9	374.8	381.7	392.0	405.8	426.4	426.4	436.7	436.7	416.1
70°	240.7	240.7	244.2	254.4	261.3	264.8	271.7	278.5	288.9	285.4	285.4
72.5°	161.6	158.2	161.6	165.1	168.5	178.8	178.8	182.2	189.1	192.6	178.8
75°	82.5	86.0	92.8	89.4	99.7	92.8	96.3	106.6	103.2	96.3	96.3
77.5°	68.7	68.7	68.7	65.4	72.2	72.2	68.7	75.6	72.2	72.2	68.7
80°	48.1	51.6	48.1	44.7	48.1	44.7	44.7	44.7	44.7	44.7	41.2
82.5°	37.9	31.0	34.4	31.0	34.4	34.4	31.0	27.5	27.5	31.0	27.5
85°	27.5	20.6	24.1	24.1	20.6	20.6	20.6	20.6	20.6	17.2	17.2
87.5°	17.2	10.3	10.3	10.3	13.7	13.7	13.7	10.3	13.7	13.7	6.9
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°	6406.4	6406.4	6406.4	6406.4	6406.4	6406.4	6406.4	6406.4	6406.4	6406.4	6406.4
2.5°	6416.7	6413.3	6420.2	6416.7	6416.7	6413.3	6416.7	6413.3	6420.2	6406.4	6409.8
5°	6416.7	6409.8	6413.3	6416.7	6420.2	6413.3	6413.3	6413.3	6420.2	6413.3	6416.7
7.5°	6402.9	6399.5	6409.8	6416.7	6413.3	6409.8	6416.7	6413.3	6420.2	6416.7	6423.5
10°	6375.4	6378.8	6385.7	6396.0	6399.5	6402.9	6409.8	6409.8	6420.2	6406.4	6413.3
12.5°	6334.2	6347.9	6365.1	6371.9	6385.7	6385.7	6392.6	6396.0	6402.9	6399.5	6409.8
15°	6282.6	6299.8	6320.4	6337.6	6354.8	6365.1	6375.4	6378.8	6389.2	6378.8	6382.3
17.5°	6220.7	6241.3	6272.2	6292.9	6320.4	6330.7	6344.4	6351.3	6361.7	6354.8	6358.2
20°	6134.7	6158.8	6193.1	6224.1	6241.3	6265.3	6282.6	6292.9	6299.8	6292.9	6296.3
22.5°	6014.3	6048.8	6093.4	6117.5	6151.9	6172.5	6176.0	6200.0	6217.2	6200.0	6206.9
25°	5873.3	5907.7	5942.2	5993.7	6024.7	6048.8	6072.8	6076.3	6093.4	6090.0	6086.5
27.5°	5639.5	5684.3	5742.7	5784.0	5825.2	5863.1	5890.6	5897.4	5914.6	5907.7	5911.2
30°	5319.7	5367.9	5422.9	5488.2	5546.7	5584.5	5618.9	5643.0	5660.1	5649.9	5646.4
32.5°	4865.8	4914.0	4972.4	5037.7	5106.6	5161.5	5202.8	5233.8	5254.4	5247.5	5230.3
35°	4346.6	4360.3	4398.2	4449.8	4508.2	4566.6	4604.5	4638.8	4662.9	4669.8	4669.8
37.5°	3813.6	3768.9	3741.4	3741.4	3775.7	3799.8	3834.2	3854.8	3892.7	3906.4	3916.7
40°	3297.7	3194.6	3098.3	3026.1	2978.0	2974.5	2974.5	2984.8	3019.2	3063.9	3105.2
42.5°	2837.0	2671.9	2524.0	2389.9	2293.7	2238.6	2214.6	2218.0	2245.5	2286.8	2355.5
45°	2469.0	2262.7	2077.0	1915.4	1784.7	1698.7	1657.5	1654.0	1674.6	1722.8	1798.5
47.5°	2183.6	1963.5	1753.7	1568.0	1427.1	1334.2	1286.1	1272.4	1286.1	1330.8	1420.2
50°	1946.3	1719.4	1502.7	1310.1	1158.9	1062.6	1017.8	1000.7	1017.8	1055.7	1145.1
52.5°	1726.2	1492.4	1289.5	1103.8	942.2	859.7	811.5	801.2	811.5	856.2	928.5
55°	1471.8	1272.4	1072.9	887.2	746.2	663.7	625.8	615.6	625.8	667.1	742.8
57.5°	1220.8	1048.8	873.5	704.9	584.6	512.3	478.0	464.2	488.3	515.8	605.2
60°	986.9	849.4	701.5	553.6	453.9	388.6	361.0	357.6	364.5	398.9	460.8
62.5°	773.8	660.2	543.3	423.0	340.4	312.9	278.5	275.1	282.0	302.6	350.8
65°	557.1	484.9	395.5	309.5	244.2	206.3	192.6	196.0	202.9	216.7	261.3
67.5°	388.6	337.0	275.1	216.7	168.5	151.3	137.6	134.1	137.6	161.6	185.7
70°	261.3	230.4	185.7	165.1	117.0	92.8	96.3	86.0	99.7	99.7	120.3
72.5°	171.9	151.3	123.8	96.3	82.5	65.4	65.4	61.9	68.7	72.2	89.4
75°	89.4	68.7	68.7	48.1	34.4	17.2	31.0	27.5	24.1	27.5	34.4
77.5°	61.9	51.6	48.1	37.9	34.4	27.5	27.5	27.5	27.5	31.0	34.4
80°	37.9	37.9	27.5	24.1	20.6	17.2	20.6	20.6	20.6	20.6	24.1
82.5°	24.1	20.6	20.6	17.2	17.2	13.7	13.7	13.7	13.7	13.7	20.6
85°	20.6	13.7	13.7	10.3	13.7	24.1	10.3	13.7	13.7	13.7	10.3
87.5°	6.9	10.3	10.3	10.3	6.9	3.4	6.9	10.3	10.3	17.2	13.7
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°	6406.4	6406.4	6406.4	6406.4	6406.4	6406.4	6406.4	6406.4	6406.4	6406.4	6406.4
2.5°	6416.7	6420.2	6420.2	6416.7	6416.7	6409.8	6423.5	6413.3	6416.7	6430.4	6420.2
5°	6423.5	6427.0	6427.0	6423.5	6423.5	6423.5	6427.0	6427.0	6423.5	6420.2	6427.0
7.5°	6437.3	6433.9	6433.9	6427.0	6427.0	6420.2	6427.0	6416.7	6423.5	6416.7	6427.0
10°	6420.2	6423.5	6420.2	6416.7	6416.7	6413.3	6413.3	6402.9	6406.4	6396.0	6402.9
12.5°	6409.8	6406.4	6406.4	6399.5	6392.6	6385.7	6382.3	6371.9	6371.9	6347.9	6358.2
15°	6382.3	6385.7	6375.4	6361.7	6354.8	6337.6	6330.7	6316.9	6303.2	6286.0	6289.5
17.5°	6358.2	6347.9	6334.2	6320.4	6292.9	6279.1	6265.3	6244.7	6237.8	6217.2	6210.4
20°	6286.0	6279.1	6262.0	6237.8	6220.7	6189.7	6176.0	6155.4	6138.1	6117.5	6107.2
22.5°	6193.1	6186.2	6165.6	6141.6	6114.1	6100.3	6086.5	6048.8	6031.5	6010.9	6007.4
25°	6076.3	6065.9	6045.3	6017.8	6004.0	5966.2	5952.4	5924.9	5918.1	5897.4	5894.0
27.5°	5897.4	5883.7	5859.6	5825.2	5801.1	5777.1	5763.4	5742.7	5735.8	5715.1	5711.8
30°	5629.2	5612.0	5563.9	5550.1	5508.8	5484.8	5484.8	5457.3	5460.7	5447.0	5447.0
32.5°	5206.3	5178.8	5140.9	5113.4	5085.9	5072.1	5072.1	5061.8	5068.7	5068.7	5075.6
35°	4645.7	4607.9	4587.2	4570.1	4570.1	4583.8	4625.1	4635.5	4656.1	4673.2	4687.0
37.5°	3927.0	3923.6	3947.7	3968.3	4019.9	4078.4	4150.6	4212.5	4270.9	4312.2	4353.4
40°	3149.9	3235.9	3304.6	3400.9	3480.0	3593.5	3724.1	3830.7	3930.4	4002.7	4078.4
42.5°	2458.7	2568.7	2713.2	2854.1	2995.1	3149.9	3321.9	3469.7	3600.4	3700.1	3779.2
45°	1915.4	2066.7	2242.1	2420.9	2603.1	2795.7	2974.5	3125.8	3263.4	3366.5	3445.6
47.5°	1544.0	1709.1	1908.5	2104.5	2310.8	2513.7	2713.2	2843.9	2957.3	3039.8	3112.1
50°	1275.7	1451.2	1660.9	1884.4	2090.7	2293.7	2465.6	2592.8	2685.7	2757.9	2802.5
52.5°	1066.0	1251.7	1475.2	1698.7	1905.0	2090.7	2245.5	2341.8	2417.4	2469.0	2510.2
55°	880.3	1059.2	1268.9	1478.7	1681.5	1856.9	1984.1	2056.4	2114.8	2145.7	2169.8
57.5°	718.7	883.7	1076.3	1268.9	1444.3	1588.7	1688.4	1760.6	1788.1	1812.2	1808.8
60°	564.0	718.7	894.1	1059.2	1210.4	1327.3	1399.6	1440.8	1461.4	1471.8	1464.9
62.5°	443.6	584.6	718.7	863.1	973.2	1072.9	1141.7	1141.7	1152.0	1155.4	1165.8
65°	330.1	436.7	553.6	660.2	749.6	815.0	852.8	863.1	876.9	873.5	866.6
67.5°	244.2	323.3	409.2	488.3	550.2	591.4	618.9	643.1	639.6	632.7	629.3
70°	168.5	220.1	295.8	343.9	388.6	429.9	436.7	440.1	443.6	447.0	440.1
72.5°	117.0	154.7	196.0	237.3	264.8	282.0	299.2	302.6	302.6	302.6	299.2
75°	58.5	79.1	117.0	134.1	158.2	165.1	178.8	178.8	189.1	175.3	171.9
77.5°	51.6	61.9	82.5	96.3	106.6	117.0	120.3	130.7	127.2	120.3	123.8
80°	31.0	37.9	51.6	58.5	72.2	75.6	79.1	82.5	79.1	82.5	82.5
82.5°	24.1	27.5	34.4	34.4	44.7	44.7	48.1	48.1	51.6	51.6	51.6
85°	13.7	24.1	20.6	41.2	27.5	27.5	34.4	41.2	34.4	34.4	41.2
87.5°	13.7	13.7	10.3	13.7	13.7	13.7	17.2	20.6	20.6	24.1	20.6
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: P249330

CATALOG NUMBER: LD8B120D010 ER8B120840 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	6406.4	6406.4	6406.4	6406.4
2.5°	6416.7	6423.5	6413.3	6409.8
5°	6427.0	6427.0	6420.2	6420.2
7.5°	6427.0	6427.0	6416.7	6409.8
10°	6399.5	6399.5	6389.2	6382.3
12.5°	6347.9	6347.9	6344.4	6334.2
15°	6282.6	6282.6	6268.8	6258.5
17.5°	6193.1	6200.0	6182.9	6182.9
20°	6096.9	6093.4	6079.7	6072.8
22.5°	5997.2	5990.3	5986.8	5966.2
25°	5890.6	5883.7	5873.3	5863.1
27.5°	5708.3	5704.9	5694.5	5680.8
30°	5429.7	5426.3	5412.6	5412.6
32.5°	5068.7	5065.2	5051.5	5055.0
35°	4693.9	4707.6	4700.8	4687.0
37.5°	4380.9	4391.3	4398.2	4391.3
40°	4119.6	4150.6	4154.0	4160.9
42.5°	3841.1	3882.3	3896.1	3902.9
45°	3507.5	3545.3	3576.3	3569.4
47.5°	3167.0	3194.6	3222.1	3201.5
50°	2840.4	2857.6	2867.9	2867.9
52.5°	2530.9	2530.9	2527.5	2530.9
55°	2176.7	2176.7	2163.0	2169.8
57.5°	1805.3	1812.2	1801.9	1784.7
60°	1461.4	1444.3	1437.4	1427.1
62.5°	1138.2	1138.2	1114.2	1145.1
65°	852.8	842.5	832.1	828.7
67.5°	618.9	615.6	605.2	601.8
70°	436.7	423.0	419.5	412.6
72.5°	292.3	292.3	285.4	285.4
75°	178.8	161.6	158.2	161.6
77.5°	123.8	120.3	120.3	117.0
80°	82.5	79.1	86.0	75.6
82.5°	51.6	55.0	51.6	55.0
85°	34.4	41.2	37.9	37.9
87.5°	20.6	20.6	20.6	20.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)