

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: P250269

Luminaire Tested: **LD8B100D010 ER8B100950 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250269
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13955)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B100D010 ER8B100950 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10224.0 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

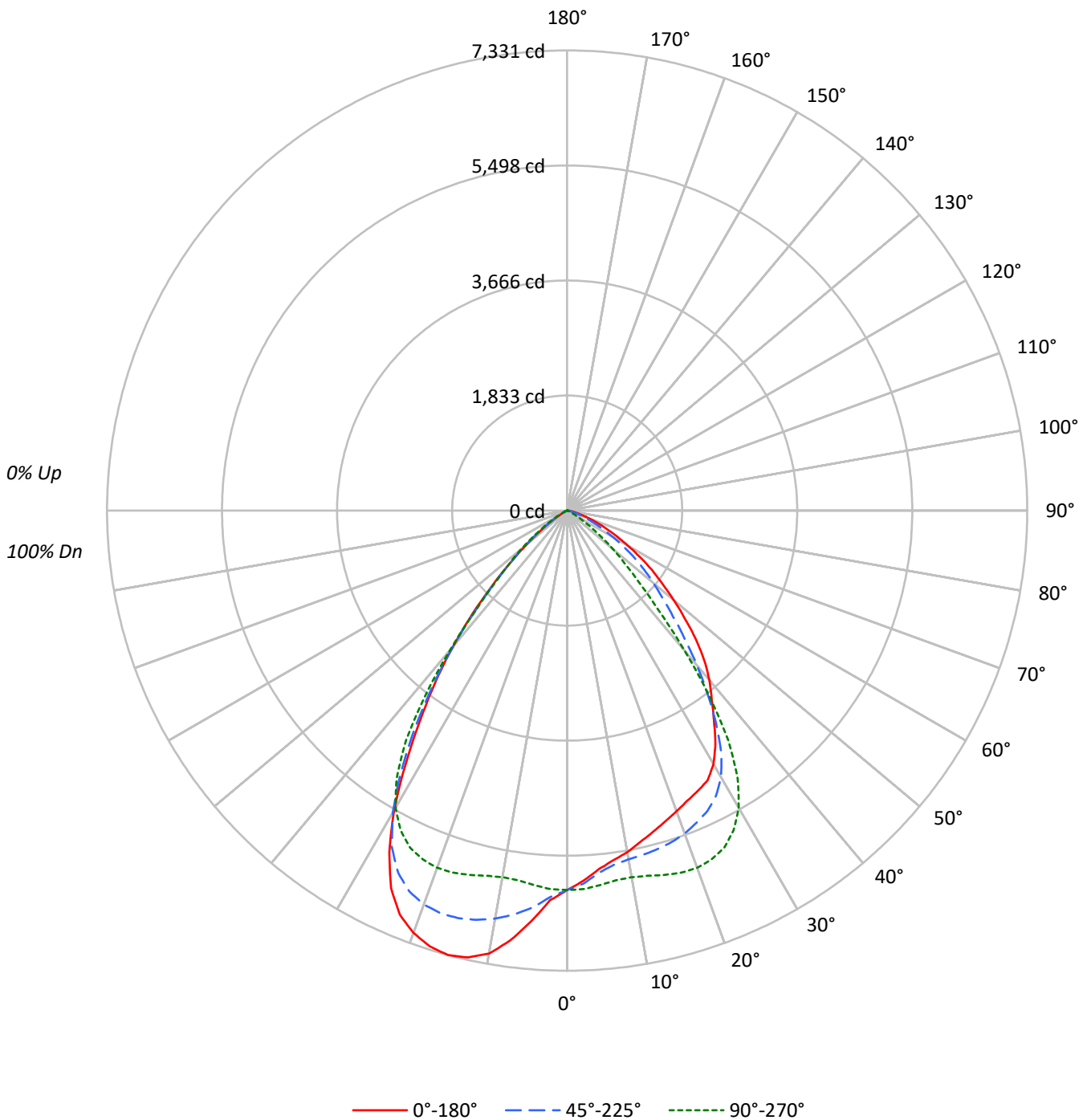
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250269

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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	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82					82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60					60			
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54					54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49					49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45					45			
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42					42			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38					38			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	186421	186421	186421
5°	177602	185384	203226
10°	173021	185671	224326
15°	169099	191822	234029
20°	167237	198756	234908
25°	167630	201562	225781
30°	166073	194641	196350
35°	153457	168450	153667
40°	141807	116789	113947
45°	126275	70468	72805
50°	106250	45401	41199
55°	88395	24908	18833
60°	68993	10799	5921
65°	50915	5363	2882
70°	35406	3309	1271
75°	21541	679	0
80°	15556	1012	0
85°	10013	991	0



TEST NUMBER: P250269

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	581.2	5.7
10°-20°	1739.4	17.0
20°-30°	2663.7	26.1
30°-40°	2611.3	25.5
40°-50°	1572.5	15.4
50°-60°	723.8	7.1
60°-70°	254.3	2.5
70°-80°	66.5	0.7
80°-90°	11.3	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°	4984.3	48.8
0°-40°	7595.6	74.3
0°-60°	9891.9	96.8
0°-90°	10224.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10224.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6046	6046	6046	6046	6046	
5°	5738	5791	5989	6348	6565	542
15°	5297	5582	6009	6721	7331	1497
25°	4927	5283	5924	6370	6636	2269
35°	4076	4133	4475	4218	4082	2553
45°	2896	2384	1616	1627	1670	2220
55°	1644	1302	463	364	350	1467
65°	698	483	74	37	40	711
75°	181	104	6	0	0	219
85°	28	14	3	0	0	39
90°	0	0	0	0	0	



TEST NUMBER: P250269

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	6045.5	6045.5	6045.5	6045.5	6045.5	6045.5	6045.5	6045.5	6045.5	6045.5	6045.5
2.5°	5904.2	5909.9	5909.9	5909.9	5921.2	5924.1	5921.2	5924.1	5929.7	5949.4	5957.9
5°	5737.6	5729.1	5734.8	5731.9	5746.1	5754.5	5748.8	5757.3	5777.1	5791.3	5805.4
7.5°	5619.0	5619.0	5619.0	5624.5	5633.0	5650.0	5647.2	5652.8	5672.6	5692.3	5712.1
10°	5525.7	5522.9	5522.9	5537.0	5548.3	5568.0	5573.7	5590.7	5616.1	5641.5	5664.1
12.5°	5404.2	5407.1	5421.2	5435.4	5460.7	5491.8	5508.7	5531.4	5570.9	5613.3	5638.7
15°	5296.9	5299.7	5311.1	5339.2	5370.4	5407.1	5443.7	5480.5	5528.5	5582.2	5627.4
17.5°	5192.3	5195.1	5203.6	5234.8	5274.3	5322.3	5364.7	5412.7	5474.9	5537.0	5593.5
20°	5096.3	5093.5	5107.6	5135.8	5186.8	5231.9	5274.3	5330.8	5398.6	5474.9	5539.8
22.5°	5003.0	5003.0	5017.2	5045.5	5090.7	5135.8	5181.1	5240.4	5308.1	5381.6	5457.9
25°	4926.8	4924.0	4943.7	4957.9	4991.8	5037.0	5085.0	5133.0	5200.8	5282.8	5356.2
27.5°	4844.9	4842.1	4844.9	4861.9	4892.9	4926.8	4963.5	5005.9	5062.4	5130.2	5200.8
30°	4664.1	4666.9	4666.9	4681.1	4698.0	4734.7	4754.4	4796.9	4847.7	4904.2	4966.4
32.5°	4395.7	4398.5	4398.5	4404.2	4418.3	4435.2	4452.2	4483.3	4522.8	4570.8	4627.3
35°	4076.5	4076.5	4073.6	4076.5	4085.0	4085.0	4099.1	4085.0	4104.8	4133.0	4175.4
37.5°	3782.7	3777.0	3771.4	3765.7	3757.2	3743.1	3723.4	3689.4	3680.9	3669.7	3672.4
40°	3522.8	3520.0	3503.0	3488.8	3460.6	3426.7	3378.7	3319.4	3271.4	3214.9	3166.9
42.5°	3234.7	3231.7	3217.7	3192.2	3161.2	3110.4	3034.1	2955.0	2859.0	2774.2	2686.6
45°	2895.6	2904.1	2884.3	2856.1	2819.3	2771.3	2686.6	2590.5	2494.4	2384.3	2274.1
47.5°	2542.4	2539.7	2525.6	2508.6	2477.6	2429.5	2373.0	2268.5	2166.7	2065.1	1952.1
50°	2214.8	2203.5	2197.8	2180.9	2161.2	2121.6	2062.2	1977.4	1887.1	1791.0	1686.5
52.5°	1904.1	1904.1	1889.9	1878.6	1861.6	1830.6	1779.8	1712.0	1635.7	1545.2	1435.1
55°	1644.2	1638.5	1624.4	1610.2	1593.3	1573.5	1528.4	1471.9	1389.9	1302.3	1206.3
57.5°	1367.3	1364.4	1358.8	1341.9	1333.4	1313.6	1262.8	1206.3	1135.7	1059.4	980.2
60°	1118.7	1107.4	1096.0	1084.8	1070.7	1050.9	1017.0	969.0	909.7	841.9	762.8
62.5°	895.6	912.4	878.6	878.6	850.3	833.4	802.3	774.1	711.9	649.8	582.0
65°	697.8	697.8	683.6	672.3	655.3	635.6	604.5	576.3	531.0	483.0	435.0
67.5°	534.0	531.0	517.0	505.7	491.5	480.2	457.7	423.7	389.9	350.3	310.7
70°	392.7	389.9	387.0	367.2	355.9	341.9	324.9	302.3	276.9	248.6	211.9
72.5°	282.4	282.4	274.1	265.6	254.3	242.9	226.0	211.9	189.3	169.5	144.1
75°	180.8	178.0	178.0	163.8	163.8	146.9	135.6	127.1	115.8	104.5	82.0
77.5°	130.0	127.1	124.3	118.6	113.0	107.3	98.8	87.6	79.1	67.8	59.3
80°	87.6	82.0	79.1	79.1	70.6	67.8	70.6	53.7	50.8	42.3	36.7
82.5°	53.7	53.7	50.8	50.8	48.0	45.2	36.7	36.7	34.0	31.0	25.5
85°	28.3	36.7	25.5	28.3	25.5	28.3	25.5	19.8	17.0	14.1	14.1
87.5°	17.0	11.3	11.3	17.0	14.1	11.3	11.3	11.3	8.5	5.7	5.7
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: P250269

CATALOG NUMBER: LD8B100D010 ER8B100950 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	6045.5	6045.5	6045.5	6045.5	6045.5	6045.5	6045.5	6045.5	6045.5	6045.5	6045.5
2.5°	5952.3	5972.1	5969.2	5994.7	6003.1	6022.9	6022.9	6037.0	6045.5	6065.2	6082.2
5°	5811.1	5842.1	5850.6	5881.6	5907.1	5938.1	5957.9	5989.0	6017.2	6059.7	6099.2
7.5°	5723.5	5748.8	5765.8	5802.6	5830.8	5864.7	5898.6	5940.9	5980.5	6031.4	6087.9
10°	5681.1	5715.0	5740.4	5777.1	5811.1	5847.8	5881.6	5929.7	5974.9	6039.9	6102.0
12.5°	5669.8	5709.3	5740.4	5791.3	5825.1	5864.7	5904.2	5957.9	6005.9	6073.7	6144.4
15°	5669.8	5723.5	5765.8	5822.3	5861.9	5912.7	5955.1	6008.7	6062.4	6133.0	6200.8
17.5°	5658.5	5723.5	5777.1	5842.1	5892.9	5943.8	5997.4	6048.4	6104.8	6172.7	6248.8
20°	5613.3	5695.2	5760.1	5836.4	5890.1	5946.6	6000.4	6056.8	6116.2	6186.8	6251.8
22.5°	5534.2	5630.2	5703.7	5785.6	5847.8	5904.2	5957.9	6014.4	6079.4	6147.2	6215.0
25°	5429.7	5520.0	5599.2	5683.8	5746.1	5808.1	5859.1	5924.1	5983.4	6048.4	6102.0
27.5°	5271.4	5367.4	5443.7	5531.4	5587.8	5647.2	5689.5	5743.3	5799.8	5853.4	5895.8
30°	5034.2	5121.8	5200.8	5279.9	5336.4	5378.8	5424.0	5466.4	5503.1	5539.8	5576.5
32.5°	4686.6	4765.8	4842.1	4915.5	4960.7	4997.4	5031.3	5056.8	5076.5	5096.3	5099.1
35°	4209.3	4274.2	4322.2	4387.2	4429.7	4463.5	4463.5	4474.8	4472.0	4463.5	4455.0
37.5°	3675.4	3700.7	3720.5	3745.9	3748.7	3748.7	3731.9	3717.7	3695.1	3689.4	3672.4
40°	3118.8	3084.9	3059.4	3025.6	3005.8	2963.4	2926.7	2901.3	2864.5	2859.0	2853.3
42.5°	2590.5	2511.4	2440.8	2381.5	2313.7	2254.3	2200.7	2161.2	2132.9	2130.0	2132.9
45°	2161.2	2070.7	1966.2	1884.3	1808.0	1734.5	1664.0	1615.9	1590.5	1584.8	1590.5
47.5°	1836.3	1731.7	1630.0	1536.7	1454.9	1372.9	1302.3	1237.3	1206.3	1197.8	1195.0
50°	1579.2	1471.9	1364.4	1268.4	1178.0	1096.0	1008.5	946.4	906.9	892.7	881.4
52.5°	1327.8	1231.7	1121.5	1022.7	932.2	836.2	745.8	675.1	635.6	618.7	607.3
55°	1107.4	1011.4	909.7	813.6	717.6	621.5	531.0	463.3	420.9	401.2	387.0
57.5°	884.2	793.8	706.3	610.2	531.0	437.9	347.4	288.1	251.4	228.8	217.6
60°	683.6	613.0	536.7	457.7	381.4	305.1	231.6	175.1	146.9	130.0	115.8
62.5°	517.0	457.7	406.7	339.0	279.7	214.7	158.3	113.0	87.6	73.5	67.8
65°	372.9	327.7	282.4	240.1	197.8	149.8	107.3	73.5	50.8	42.3	39.5
67.5°	265.6	228.8	194.9	166.6	135.6	107.3	76.3	50.8	39.5	34.0	31.0
70°	186.4	158.3	135.6	110.2	90.3	70.6	59.3	36.7	22.6	25.5	19.8
72.5°	124.3	104.5	93.3	76.3	62.1	50.8	36.7	25.5	25.5	19.8	17.0
75°	67.8	62.1	48.0	36.7	31.0	28.3	11.3	5.7	2.8	8.5	2.8
77.5°	48.0	42.3	36.7	31.0	25.5	19.8	11.3	11.3	8.5	11.3	5.7
80°	31.0	25.5	22.6	22.6	14.1	8.5	5.7	5.7	8.5	2.8	2.8
82.5°	19.8	17.0	14.1	14.1	14.1	8.5	8.5	8.5	8.5	5.7	5.7
85°	11.3	8.5	5.7	5.7	2.8	5.7	0.0	2.8	2.8	0.0	0.0
87.5°	5.7	2.8	2.8	2.8	2.8	0.0	0.0	2.8	0.0	2.8	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: P250269

CATALOG NUMBER: LD8B100D010 ER8B100950 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6045.5	6045.5	6045.5	6045.5	6045.5	6045.5	6045.5	6045.5	6045.5	6045.5	6045.5
2.5°	6093.5	6104.8	6119.0	6130.2	6155.7	6161.3	6172.7	6184.0	6192.4	6200.8	6203.7
5°	6133.0	6175.5	6215.0	6257.3	6311.1	6347.8	6390.1	6426.9	6463.6	6494.7	6517.2
7.5°	6144.4	6209.3	6268.7	6342.1	6421.2	6489.1	6559.7	6630.2	6703.7	6760.2	6808.3
10°	6167.0	6246.1	6322.3	6409.9	6511.6	6602.0	6689.5	6782.8	6876.1	6955.1	7025.8
12.5°	6206.5	6294.1	6376.1	6472.1	6576.6	6678.3	6774.3	6878.8	6977.8	7065.4	7144.4
15°	6271.5	6353.4	6432.6	6522.9	6627.5	6720.7	6816.8	6918.4	7017.3	7107.7	7181.2
17.5°	6313.8	6390.1	6469.2	6551.2	6638.7	6723.5	6813.8	6904.3	6994.7	7076.6	7144.4
20°	6313.8	6387.3	6446.6	6520.1	6602.0	6675.5	6749.0	6828.0	6907.1	6974.9	7039.9
22.5°	6263.0	6333.6	6378.8	6435.4	6505.9	6568.1	6607.7	6695.2	6754.5	6813.8	6861.9
25°	6144.4	6195.2	6232.0	6271.5	6328.0	6370.4	6404.3	6455.1	6514.4	6537.1	6570.9
27.5°	5929.7	5966.4	5986.2	5994.7	6022.9	6045.5	6051.2	6073.7	6099.2	6104.8	6119.0
30°	5590.7	5593.5	5585.0	5582.2	5568.0	5551.2	5548.3	5545.5	5534.2	5522.9	5525.7
32.5°	5079.3	5065.2	5031.3	4994.7	4957.9	4918.4	4895.7	4867.4	4850.5	4833.6	4813.8
35°	4418.3	4384.4	4336.4	4291.2	4248.8	4217.7	4166.9	4149.9	4133.0	4110.4	4104.8
37.5°	3641.4	3621.6	3576.4	3542.6	3520.0	3505.8	3480.4	3463.5	3463.5	3455.0	3449.3
40°	2839.1	2833.5	2816.5	2825.0	2813.7	2819.3	2816.5	2810.8	2825.0	2825.0	2830.7
42.5°	2130.0	2132.9	2141.4	2147.0	2164.0	2166.7	2180.9	2180.9	2189.4	2197.8	2203.5
45°	1584.8	1596.2	1596.2	1607.4	1624.4	1627.2	1632.8	1635.7	1641.3	1655.5	1661.0
47.5°	1189.3	1192.1	1192.1	1195.0	1200.6	1206.3	1203.5	1206.3	1214.8	1209.1	1214.8
50°	878.6	881.4	872.9	864.4	872.9	872.9	870.1	861.6	870.1	858.8	864.4
52.5°	599.0	596.0	587.6	590.5	584.8	582.0	582.0	576.3	576.3	576.3	565.0
55°	378.6	378.6	372.9	372.9	370.1	364.4	361.6	358.7	355.9	353.1	353.1
57.5°	211.9	214.7	206.3	203.4	206.3	203.4	197.8	197.8	197.8	189.3	194.9
60°	115.8	113.0	110.2	107.3	104.5	107.3	107.3	101.7	101.7	101.7	104.5
62.5°	62.1	62.1	59.3	59.3	56.5	56.5	62.1	53.7	56.5	53.7	56.5
65°	34.0	42.3	31.0	31.0	39.5	36.7	34.0	34.0	36.7	31.0	34.0
67.5°	36.7	25.5	22.6	25.5	22.6	22.6	22.6	28.3	25.5	19.8	25.5
70°	17.0	19.8	19.8	14.1	22.6	11.3	19.8	11.3	17.0	14.1	17.0
72.5°	17.0	17.0	17.0	11.3	17.0	11.3	14.1	14.1	11.3	11.3	17.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.7	5.7	2.8	2.8	2.8	2.8	5.7	5.7	5.7	0.0	2.8
80°	5.7	5.7	0.0	2.8	0.0	0.0	2.8	0.0	2.8	0.0	5.7
82.5°	2.8	5.7	2.8	2.8	5.7	5.7	5.7	2.8	2.8	2.8	2.8
85°	0.0	2.8	0.0	0.0	0.0	0.0	5.7	0.0	0.0	0.0	2.8
87.5°	0.0	2.8	0.0	0.0	0.0	0.0	2.8	2.8	0.0	0.0	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: P250269

CATALOG NUMBER: LD8B100D010 ER8B100950 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	6045.5	6045.5	6045.5	6045.5
2.5°	6206.5	6209.3	6215.0	6212.2
5°	6534.2	6556.9	6568.1	6565.4
7.5°	6842.1	6881.8	6904.3	6904.3
10°	7079.4	7124.7	7158.5	7164.2
12.5°	7206.5	7257.5	7302.7	7291.3
15°	7243.3	7294.2	7339.3	7330.8
17.5°	7200.9	7251.8	7285.7	7280.0
20°	7085.1	7127.5	7161.4	7158.5
22.5°	6904.3	6941.1	6969.3	6966.4
25°	6599.2	6624.7	6647.2	6635.9
27.5°	6130.2	6138.7	6152.8	6135.9
30°	5505.9	5511.5	5517.2	5514.4
32.5°	4805.4	4802.4	4796.9	4791.2
35°	4096.3	4096.3	4099.1	4082.1
37.5°	3452.1	3449.3	3457.8	3449.3
40°	2836.3	2833.5	2844.8	2830.7
42.5°	2212.0	2220.5	2223.3	2223.3
45°	1664.0	1666.7	1669.5	1669.5
47.5°	1214.8	1217.6	1231.7	1214.8
50°	858.8	861.6	864.4	858.8
52.5°	567.8	570.7	567.8	559.3
55°	347.4	350.3	350.3	350.3
57.5°	186.4	189.3	189.3	186.4
60°	101.7	98.8	101.7	96.0
62.5°	53.7	59.3	56.5	50.8
65°	34.0	34.0	34.0	39.5
67.5°	28.3	22.6	25.5	19.8
70°	17.0	19.8	19.8	14.1
72.5°	14.1	14.1	14.1	17.0
75°	0.0	0.0	0.0	0.0
77.5°	5.7	5.7	5.7	2.8
80°	2.8	0.0	2.8	0.0
82.5°	2.8	2.8	5.7	2.8
85°	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)