

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: P250266

Luminaire Tested: **LD8B200D010 ER8B200940 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250266
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: LD8B200D010 ER8B200940 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19637.0 lumens
Efficiency: N/A
Efficacy: 87.9 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

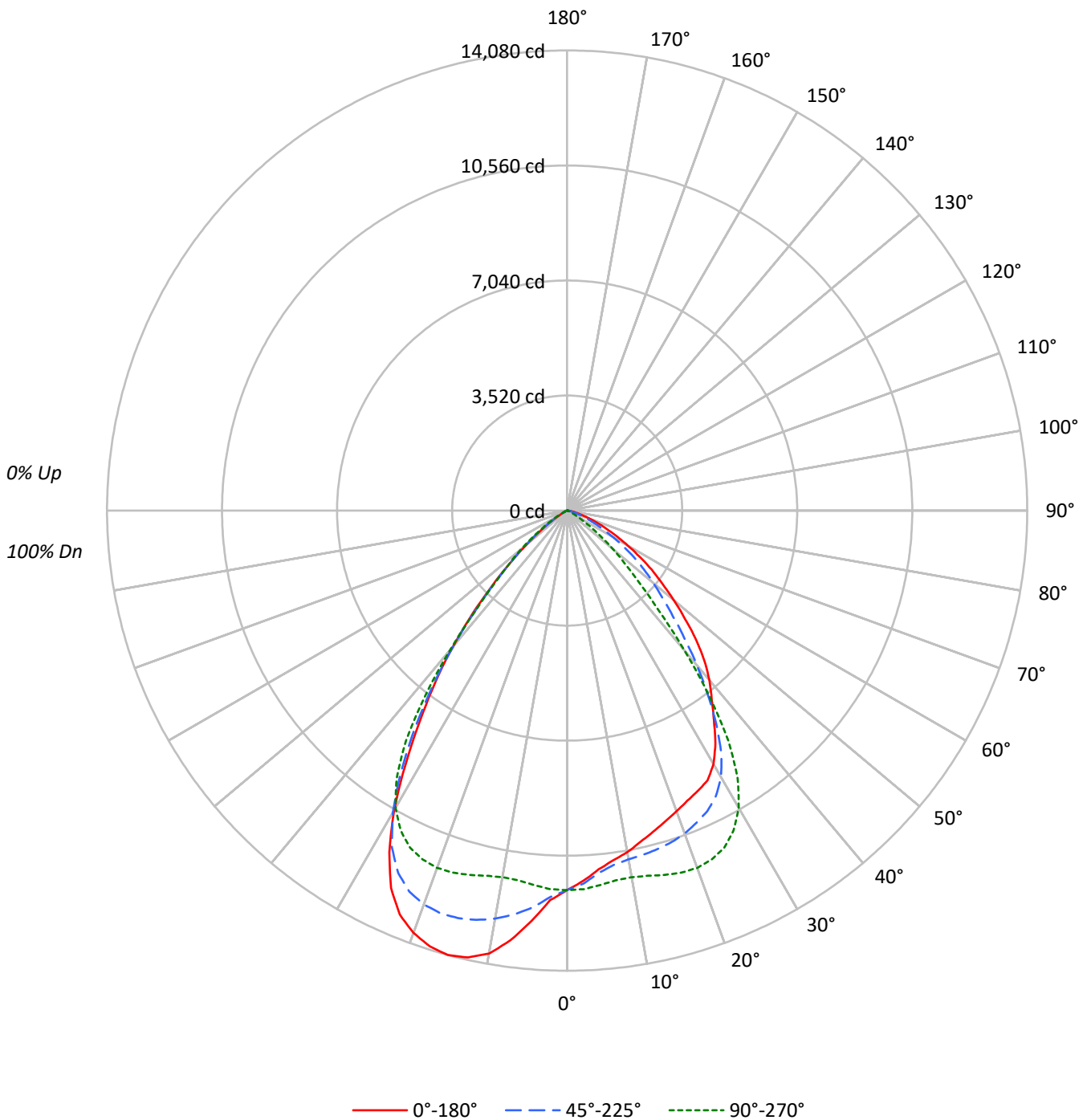
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	358053	358053	358053
5°	341114	356062	390328
10°	332318	356613	430856
15°	324783	368430	449495
20°	321206	381744	451184
25°	321960	387133	433654
30°	318972	373842	377125
35°	294743	323537	295145
40°	272366	224311	218857
45°	242532	135350	139837
50°	204071	87200	79136
55°	169779	47837	36176
60°	132516	20741	11379
65°	97788	10295	5538
70°	67998	6365	2434
75°	41378	1299	0
80°	29869	1936	0
85°	19212	1911	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1116.3	5.7
10°-20°	3340.8	17.0
20°-30°	5116.1	26.1
30°-40°	5015.5	25.5
40°-50°	3020.3	15.4
50°-60°	1390.2	7.1
60°-70°	488.3	2.5
70°-80°	127.7	0.7
80°-90°	21.8	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°	9573.2	48.8
0°-40°	14588.7	74.3
0°-60°	18999.2	96.8
0°-90°	19637.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19637.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11611	11611	11611	11611	11611	
5°	11020	11123	11503	12192	12610	###
15°	10174	10722	11541	12908	14080	2874
25°	9463	10146	11378	12235	12746	4358
35°	7830	7938	8595	8101	7840	4904
45°	5562	4580	3104	3125	3207	4265
55°	3158	2501	890	700	673	2818
65°	1340	928	141	71	76	1365
75°	347	201	11	0	0	421
85°	54	27	5	0	0	75
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°	11611.4	11611.4	11611.4	11611.4	11611.4	11611.4	11611.4	11611.4	11611.4	11611.4	11611.4
2.5°	11340.0	11351.0	11351.0	11351.0	11372.7	11378.2	11372.7	11378.2	11389.0	11426.9	11443.2
5°	11020.0	11003.7	11014.6	11009.1	11036.3	11052.6	11041.7	11058.0	11095.9	11123.2	11150.2
7.5°	10792.2	10792.2	10792.2	10802.9	10819.2	10851.8	10846.5	10857.2	10895.2	10933.1	10971.1
10°	10613.1	10607.7	10607.7	10634.8	10656.4	10694.4	10705.3	10737.9	10786.6	10835.5	10878.9
12.5°	10379.7	10385.3	10412.3	10439.6	10488.2	10547.9	10580.5	10624.0	10700.0	10781.3	10830.2
15°	10173.6	10178.9	10200.8	10254.9	10314.7	10385.3	10455.6	10526.2	10618.5	10721.6	10808.5
17.5°	9972.8	9978.2	9994.5	10054.3	10130.2	10222.5	10303.8	10396.0	10515.5	10634.8	10743.3
20°	9788.3	9783.0	9810.0	9864.3	9962.1	10048.7	10130.2	10238.8	10369.0	10515.5	10640.1
22.5°	9609.2	9609.2	9636.5	9690.7	9777.6	9864.3	9951.1	10065.0	10195.2	10336.4	10482.9
25°	9462.7	9457.3	9495.3	9522.5	9587.5	9674.4	9766.7	9858.9	9989.1	10146.5	10287.5
27.5°	9305.5	9300.1	9305.5	9338.1	9397.7	9462.7	9533.3	9614.8	9723.3	9853.5	9989.1
30°	8958.2	8963.5	8963.5	8990.8	9023.4	9093.7	9131.7	9213.2	9310.8	9419.4	9538.9
32.5°	8442.7	8448.1	8448.1	8459.0	8486.1	8518.7	8551.3	8610.9	8686.8	8779.1	8887.6
35°	7829.7	7829.7	7824.1	7829.7	7846.0	7846.0	7873.0	7846.0	7883.9	7938.2	8019.5
37.5°	7265.3	7254.4	7243.6	7232.7	7216.4	7189.4	7151.4	7086.2	7069.9	7048.2	7053.6
40°	6766.2	6760.8	6728.2	6700.9	6646.7	6581.7	6489.4	6375.5	6283.3	6174.8	6082.5
42.5°	6212.7	6207.1	6180.1	6131.2	6071.6	5974.0	5827.5	5675.6	5491.1	5328.3	5160.2
45°	5561.5	5577.8	5539.8	5485.5	5415.0	5322.7	5160.2	4975.5	4791.0	4579.5	4367.8
47.5°	4883.2	4877.9	4850.8	4818.2	4758.6	4666.4	4557.8	4357.0	4161.6	3966.4	3749.3
50°	4253.9	4232.2	4221.3	4188.9	4150.9	4075.0	3960.8	3798.0	3624.5	3440.0	3239.2
52.5°	3657.1	3657.1	3629.9	3608.2	3575.6	3516.0	3418.4	3288.2	3141.7	2967.9	2756.4
55°	3158.0	3147.0	3120.0	3092.7	3060.1	3022.2	2935.5	2827.0	2669.5	2501.3	2316.9
57.5°	2626.2	2620.6	2609.9	2577.3	2561.0	2523.0	2425.4	2316.9	2181.3	2034.8	1882.7
60°	2148.7	2127.0	2105.2	2083.5	2056.5	2018.5	1953.3	1861.0	1747.1	1616.9	1465.1
62.5°	1720.1	1752.5	1687.5	1687.5	1633.2	1600.6	1541.0	1486.7	1367.3	1248.0	1117.8
65°	1340.2	1340.2	1313.0	1291.3	1258.7	1220.7	1161.1	1106.8	1020.0	927.7	835.5
67.5°	1025.6	1020.0	992.9	971.3	944.0	922.4	879.0	813.8	748.8	672.9	596.8
70°	754.2	748.8	743.3	705.3	683.6	656.6	624.0	580.7	531.8	477.5	406.9
72.5°	542.5	542.5	526.4	510.1	488.4	466.5	434.2	406.9	363.6	325.6	276.7
75°	347.3	341.9	341.9	314.7	314.7	282.1	260.4	244.1	222.4	200.8	157.5
77.5°	249.7	244.1	238.7	227.8	217.1	206.1	189.8	168.2	151.9	130.2	113.9
80°	168.2	157.5	151.9	151.9	135.6	130.2	135.6	103.2	97.6	81.3	70.6
82.5°	103.2	103.2	97.6	97.6	92.2	86.9	70.6	70.6	65.2	59.6	48.9
85°	54.3	70.6	48.9	54.3	48.9	54.3	48.9	38.0	32.6	27.0	27.0
87.5°	32.6	21.7	21.7	32.6	27.0	21.7	21.7	21.7	16.3	10.9	10.9
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°	11611.4	11611.4	11611.4	11611.4	11611.4	11611.4	11611.4	11611.4	11611.4	11611.4	11611.4
2.5°	11432.5	11470.5	11464.9	11513.8	11530.1	11568.1	11568.1	11595.1	11611.4	11649.4	11682.0
5°	11161.2	11220.8	11237.1	11296.7	11345.6	11405.3	11443.2	11502.9	11557.1	11638.6	11714.6
7.5°	10993.0	11041.7	11074.3	11144.9	11199.1	11264.1	11329.3	11410.6	11486.6	11584.4	11692.9
10°	10911.5	10976.7	11025.4	11095.9	11161.2	11231.7	11296.7	11389.0	11475.8	11600.7	11719.9
12.5°	10889.8	10965.7	11025.4	11123.2	11188.2	11264.1	11340.0	11443.2	11535.5	11665.7	11801.5
15°	10889.8	10993.0	11074.3	11182.8	11258.8	11356.4	11437.9	11540.8	11644.0	11779.6	11909.8
17.5°	10868.1	10993.0	11095.9	11220.8	11318.4	11416.2	11519.2	11617.0	11725.3	11855.7	12002.0
20°	10781.3	10938.7	11063.3	11209.8	11313.0	11421.6	11524.7	11633.1	11747.2	11882.8	12007.6
22.5°	10629.4	10813.9	10955.0	11112.2	11231.7	11340.0	11443.2	11551.8	11676.6	11806.8	11937.0
25°	10428.6	10602.1	10754.2	10916.8	11036.3	11155.6	11253.4	11378.2	11492.1	11617.0	11719.9
27.5°	10124.7	10309.1	10455.6	10624.0	10732.4	10846.5	10927.8	11031.0	11139.5	11242.5	11324.0
30°	9669.1	9837.2	9989.1	10141.0	10249.5	10331.0	10417.7	10499.2	10569.8	10640.1	10710.7
32.5°	9001.5	9153.6	9300.1	9441.0	9527.9	9598.5	9663.5	9712.4	9750.4	9788.3	9793.7
35°	8084.7	8209.3	8301.6	8426.4	8507.9	8572.9	8572.9	8594.6	8589.2	8572.9	8556.6
37.5°	7059.2	7107.9	7145.8	7194.7	7200.1	7200.1	7167.7	7140.5	7097.1	7086.2	7053.6
40°	5990.3	5925.1	5876.2	5811.2	5773.2	5691.7	5621.3	5572.4	5501.9	5491.1	5480.2
42.5°	4975.5	4823.6	4688.0	4574.1	4443.9	4329.8	4226.8	4150.9	4096.6	4091.0	4096.6
45°	4150.9	3977.1	3776.4	3619.1	3472.6	3331.5	3195.9	3103.7	3054.8	3043.8	3054.8
47.5°	3526.9	3326.1	3130.7	2951.6	2794.4	2636.9	2501.3	2376.5	2316.9	2300.6	2295.2
50°	3033.1	2827.0	2620.6	2436.1	2262.6	2105.2	1937.0	1817.7	1741.8	1714.5	1692.9
52.5°	2550.3	2365.8	2154.1	1964.2	1790.5	1606.0	1432.5	1296.7	1220.7	1188.4	1166.5
55°	2127.0	1942.6	1747.1	1562.7	1378.2	1193.7	1020.0	889.8	808.5	770.5	743.3
57.5°	1698.2	1524.7	1356.5	1172.1	1020.0	841.1	667.3	553.4	482.8	439.5	417.9
60°	1313.0	1177.4	1030.9	879.0	732.5	586.0	444.9	336.3	282.1	249.7	222.4
62.5°	992.9	879.0	781.2	651.0	537.1	412.3	304.0	217.1	168.2	141.1	130.2
65°	716.2	629.4	542.5	461.2	379.9	287.7	206.1	141.1	97.6	81.3	75.9
67.5°	510.1	439.5	374.3	320.0	260.4	206.1	146.5	97.6	75.9	65.2	59.6
70°	358.0	304.0	260.4	211.7	173.5	135.6	113.9	70.6	43.3	48.9	38.0
72.5°	238.7	200.8	179.1	146.5	119.3	97.6	70.6	48.9	48.9	38.0	32.6
75°	130.2	119.3	92.2	70.6	59.6	54.3	21.7	10.9	5.4	16.3	5.4
77.5°	92.2	81.3	70.6	59.6	48.9	38.0	21.7	21.7	16.3	21.7	10.9
80°	59.6	48.9	43.3	43.3	27.0	16.3	10.9	10.9	16.3	5.4	5.4
82.5°	38.0	32.6	27.0	27.0	27.0	16.3	16.3	16.3	16.3	10.9	10.9
85°	21.7	16.3	10.9	10.9	5.4	10.9	0.0	5.4	5.4	0.0	0.0
87.5°	10.9	5.4	5.4	5.4	5.4	0.0	0.0	5.4	0.0	5.4	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	11611.4	11611.4	11611.4	11611.4	11611.4	11611.4	11611.4	11611.4	11611.4	11611.4	11611.4
2.5°	11703.6	11725.3	11752.5	11774.2	11823.1	11833.8	11855.7	11877.4	11893.7	11909.8	11915.4
5°	11779.6	11861.1	11937.0	12018.3	12121.5	12192.1	12273.4	12343.9	12414.5	12474.1	12517.5
7.5°	11801.5	11926.1	12040.2	12181.1	12333.0	12463.4	12599.0	12734.6	12875.7	12984.2	13076.5
10°	11844.8	11996.7	12143.2	12311.3	12506.7	12680.3	12848.5	13027.6	13206.7	13358.5	13494.3
12.5°	11920.7	12088.9	12246.3	12430.8	12631.6	12826.8	13011.3	13212.0	13402.1	13570.3	13722.1
15°	12045.6	12202.8	12354.9	12528.4	12729.2	12908.3	13092.8	13288.0	13478.0	13651.6	13792.7
17.5°	12126.9	12273.4	12425.2	12582.7	12750.9	12913.7	13087.2	13261.0	13434.5	13591.9	13722.1
20°	12126.9	12268.0	12381.9	12523.1	12680.3	12821.4	12962.6	13114.4	13266.3	13396.5	13521.4
22.5°	12029.3	12164.8	12251.7	12360.2	12495.8	12615.3	12691.2	12859.4	12973.3	13087.2	13179.4
25°	11801.5	11899.1	11969.6	12045.6	12154.1	12235.4	12300.6	12398.2	12512.1	12555.7	12620.6
27.5°	11389.0	11459.5	11497.5	11513.8	11568.1	11611.4	11622.3	11665.7	11714.6	11725.3	11752.5
30°	10737.9	10743.3	10727.0	10721.6	10694.4	10662.0	10656.4	10651.1	10629.4	10607.7	10613.1
32.5°	9755.7	9728.7	9663.5	9593.1	9522.5	9446.6	9403.1	9348.8	9316.2	9283.8	9245.8
35°	8486.1	8421.1	8328.8	8241.9	8160.7	8100.8	8003.2	7970.6	7938.2	7894.7	7883.9
37.5°	6994.0	6956.0	6869.1	6804.1	6760.8	6733.5	6684.6	6652.3	6652.3	6635.9	6625.0
40°	5452.9	5442.2	5409.6	5425.9	5404.3	5415.0	5409.6	5398.7	5425.9	5425.9	5436.9
42.5°	4091.0	4096.6	4112.9	4123.7	4156.3	4161.6	4188.9	4188.9	4205.2	4221.3	4232.2
45°	3043.8	3065.7	3065.7	3087.4	3120.0	3125.3	3136.1	3141.7	3152.4	3179.6	3190.3
47.5°	2284.3	2289.6	2289.6	2295.2	2305.9	2316.9	2311.5	2316.9	2333.2	2322.2	2333.2
50°	1687.5	1692.9	1676.6	1660.3	1676.6	1676.6	1671.2	1654.9	1671.2	1649.6	1660.3
52.5°	1150.4	1144.8	1128.5	1134.1	1123.2	1117.8	1117.8	1106.8	1106.8	1106.8	1085.2
55°	727.2	727.2	716.2	716.2	710.9	699.9	694.6	689.0	683.6	678.3	678.3
57.5°	406.9	412.3	396.2	390.6	396.2	390.6	379.9	379.9	379.9	363.6	374.3
60°	222.4	217.1	211.7	206.1	200.8	206.1	206.1	195.4	195.4	195.4	200.8
62.5°	119.3	119.3	113.9	113.9	108.5	108.5	119.3	103.2	108.5	103.2	108.5
65°	65.2	81.3	59.6	59.6	75.9	70.6	65.2	65.2	70.6	59.6	65.2
67.5°	70.6	48.9	43.3	48.9	43.3	43.3	43.3	54.3	48.9	38.0	48.9
70°	32.6	38.0	38.0	27.0	43.3	21.7	38.0	21.7	32.6	27.0	32.6
72.5°	32.6	32.6	32.6	21.7	32.6	21.7	27.0	27.0	21.7	21.7	32.6
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°	10.9	10.9	5.4	5.4	5.4	5.4	10.9	10.9	10.9	0.0	5.4
80°	10.9	10.9	0.0	5.4	0.0	0.0	5.4	0.0	5.4	0.0	10.9
82.5°	5.4	10.9	5.4	5.4	10.9	10.9	10.9	5.4	5.4	5.4	5.4
85°	0.0	5.4	0.0	0.0	0.0	0.0	10.9	0.0	0.0	0.0	5.4
87.5°	0.0	5.4	0.0	0.0	0.0	0.0	5.4	5.4	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: P250266

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	11611.4	11611.4	11611.4	11611.4
2.5°	11920.7	11926.1	11937.0	11931.7
5°	12550.1	12593.6	12615.3	12609.9
7.5°	13141.5	13217.6	13261.0	13261.0
10°	13597.3	13684.2	13749.2	13760.1
12.5°	13841.4	13939.2	14026.1	14004.2
15°	13912.0	14009.8	14096.4	14080.1
17.5°	13830.7	13928.3	13993.5	13982.5
20°	13608.2	13689.5	13754.7	13749.2
22.5°	13261.0	13331.5	13385.8	13380.2
25°	12674.9	12723.8	12767.2	12745.5
27.5°	11774.2	11790.5	11817.5	11785.2
30°	10575.1	10585.8	10596.8	10591.4
32.5°	9229.5	9224.0	9213.2	9202.3
35°	7867.6	7867.6	7873.0	7840.4
37.5°	6630.4	6625.0	6641.3	6625.0
40°	5447.6	5442.2	5463.9	5436.9
42.5°	4248.5	4264.8	4270.2	4270.2
45°	3195.9	3201.3	3206.6	3206.6
47.5°	2333.2	2338.5	2365.8	2333.2
50°	1649.6	1654.9	1660.3	1649.6
52.5°	1090.5	1096.1	1090.5	1074.2
55°	667.3	672.9	672.9	672.9
57.5°	358.0	363.6	363.6	358.0
60°	195.4	189.8	195.4	184.5
62.5°	103.2	113.9	108.5	97.6
65°	65.2	65.2	65.2	75.9
67.5°	54.3	43.3	48.9	38.0
70°	32.6	38.0	38.0	27.0
72.5°	27.0	27.0	27.0	32.6
75°	0.0	0.0	0.0	0.0
77.5°	10.9	10.9	10.9	5.4
80°	5.4	0.0	5.4	0.0
82.5°	5.4	5.4	10.9	5.4
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)