

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: P249390

Luminaire Tested: **LD8B80D010 ER8B80927 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249390
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: LD8B80D010 ER8B80927 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6499.1 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

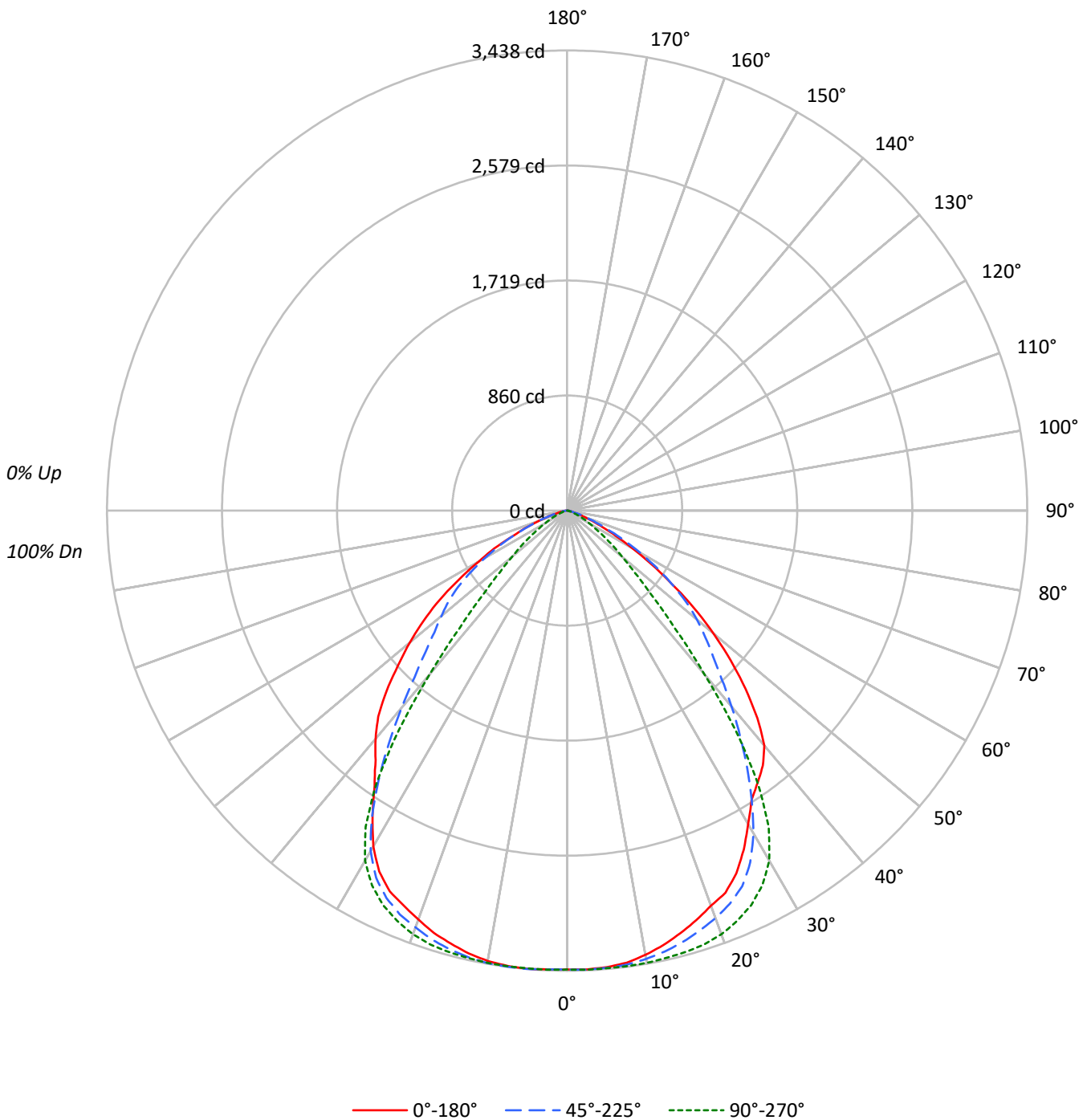
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.3	5.0
10°-20°	950.4	14.6
20°-30°	1442.5	22.2
30°-40°	1515.1	23.3
40°-50°	1135.9	17.5
50°-60°	728.8	11.2
60°-70°	311.8	4.8
70°-80°	73.7	1.1
80°-90°	13.7	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°	2720.2	41.9
0°-40°	4235.3	65.2
0°-60°	6100.0	93.9
0°-90°	6499.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6499.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3429	3429	3429	3429	3429	
5°	3424	3429	3433	3438	3436	325
15°	3269	3337	3414	3392	3350	922
25°	2991	3096	3252	3193	3138	1366
35°	2481	2343	2483	2454	2509	1557
45°	1885	1541	885	1496	1911	1443
55°	953	953	330	994	1161	865
65°	287	339	105	436	444	307
75°	44	52	15	88	86	64
85°	15	9	7	15	20	16
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°	3429.1	3429.1	3429.1	3429.1	3429.1	3429.1	3429.1	3429.1	3429.1	3429.1	3429.1
2.5°	3430.9	3434.6	3432.7	3432.7	3430.9	3432.7	3432.7	3436.4	3436.4	3432.7	3430.9
5°	3423.5	3427.2	3427.2	3423.5	3423.5	3432.7	3427.2	3430.9	3430.9	3429.1	3429.1
7.5°	3407.0	3407.0	3414.4	3408.9	3408.9	3414.4	3412.5	3416.2	3419.9	3421.7	3421.7
10°	3370.2	3373.9	3375.7	3375.7	3377.6	3383.0	3386.7	3394.1	3397.7	3401.4	3403.4
12.5°	3324.2	3329.7	3331.5	3329.7	3335.2	3342.6	3351.8	3360.9	3366.6	3373.9	3379.4
15°	3268.9	3268.9	3272.6	3278.1	3281.8	3292.9	3302.1	3313.1	3327.9	3337.1	3346.2
17.5°	3208.2	3211.9	3217.4	3217.4	3224.8	3243.2	3248.7	3265.3	3281.8	3291.1	3309.4
20°	3141.9	3145.6	3151.1	3154.8	3164.1	3178.8	3189.8	3204.6	3222.9	3239.5	3257.9
22.5°	3090.4	3083.1	3086.7	3090.4	3099.6	3112.5	3125.4	3143.8	3162.2	3178.8	3197.1
25°	2991.0	2992.8	2998.4	3002.1	3013.1	3024.1	3038.8	3060.9	3077.5	3095.9	3116.1
27.5°	2856.6	2858.5	2867.6	2867.6	2876.8	2895.3	2904.5	2922.9	2945.0	2963.4	2987.3
30°	2703.8	2707.5	2707.5	2715.0	2720.4	2729.6	2738.8	2757.3	2768.3	2784.8	2818.0
32.5°	2564.0	2567.7	2565.8	2564.0	2558.5	2556.6	2554.8	2558.5	2562.2	2567.7	2580.5
35°	2481.2	2472.0	2464.6	2451.7	2437.0	2418.5	2402.0	2379.9	2359.7	2343.0	2324.7
37.5°	2402.0	2400.2	2389.2	2370.7	2341.2	2308.2	2269.5	2221.6	2173.7	2122.2	2072.6
40°	2291.5	2286.0	2276.9	2251.1	2217.9	2177.4	2125.9	2067.0	1989.7	1910.6	1829.6
42.5°	2103.9	2105.7	2094.6	2074.4	2043.1	2004.4	1951.1	1886.6	1803.8	1709.9	1605.0
45°	1884.8	1884.8	1881.1	1864.6	1842.4	1811.1	1770.6	1717.3	1636.3	1540.6	1428.3
47.5°	1656.6	1658.4	1652.8	1649.2	1640.0	1619.8	1590.3	1549.8	1492.8	1400.7	1288.5
50°	1424.7	1424.7	1433.8	1432.0	1432.0	1424.7	1411.8	1387.8	1338.2	1264.5	1159.6
52.5°	1192.7	1196.4	1202.0	1209.3	1218.5	1233.2	1218.5	1207.5	1176.2	1119.0	1028.9
55°	953.4	957.2	966.3	979.2	990.2	1005.0	1008.7	1008.7	992.0	953.4	885.4
57.5°	749.1	743.6	750.9	762.1	776.7	791.4	802.5	815.4	813.6	787.8	732.6
60°	563.3	565.1	570.6	581.6	592.6	605.6	620.3	631.4	636.9	624.0	588.9
62.5°	410.5	410.5	417.8	428.8	434.4	452.8	462.0	467.6	473.1	471.2	449.1
65°	287.1	290.8	294.5	300.0	305.6	316.6	322.1	333.1	336.8	338.6	322.1
67.5°	202.5	197.0	200.6	204.3	209.8	217.2	228.3	228.3	233.8	233.8	222.8
70°	128.8	128.8	130.7	136.2	139.8	141.8	145.5	149.1	154.6	152.8	152.8
72.5°	86.5	84.7	86.5	88.3	90.2	95.7	95.7	97.5	101.2	103.0	95.7
75°	44.2	46.0	49.7	47.9	53.3	49.7	51.5	57.0	55.2	51.5	51.5
77.5°	36.8	36.8	36.8	35.0	38.6	38.6	36.8	40.5	38.6	38.6	36.8
80°	25.8	27.6	25.8	24.0	25.8	24.0	24.0	24.0	24.0	24.0	22.0
82.5°	20.2	16.5	18.4	16.5	18.4	18.4	16.5	14.7	14.7	16.5	14.7
85°	14.7	11.0	12.8	12.8	11.0	11.0	11.0	11.0	11.0	9.2	9.2
87.5°	9.2	5.5	5.5	5.5	7.3	7.3	7.3	5.5	7.3	7.3	3.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3429.1	3429.1	3429.1	3429.1	3429.1	3429.1	3429.1	3429.1	3429.1	3429.1	3429.1
2.5°	3434.6	3432.7	3436.4	3434.6	3434.6	3432.7	3434.6	3432.7	3436.4	3429.1	3430.9
5°	3434.6	3430.9	3432.7	3434.6	3436.4	3432.7	3432.7	3432.7	3436.4	3432.7	3434.6
7.5°	3427.2	3425.4	3430.9	3434.6	3432.7	3430.9	3434.6	3432.7	3436.4	3434.6	3438.2
10°	3412.5	3414.4	3418.1	3423.5	3425.4	3427.2	3430.9	3430.9	3436.4	3429.1	3432.7
12.5°	3390.4	3397.7	3407.0	3410.7	3418.1	3418.1	3421.7	3423.5	3427.2	3425.4	3430.9
15°	3362.8	3372.0	3383.0	3392.3	3401.4	3407.0	3412.5	3414.4	3419.9	3414.4	3416.2
17.5°	3329.7	3340.7	3357.2	3368.4	3383.0	3388.6	3395.9	3399.6	3405.2	3401.4	3403.4
20°	3283.6	3296.6	3314.9	3331.5	3340.7	3353.6	3362.8	3368.4	3372.0	3368.4	3370.2
22.5°	3219.2	3237.6	3261.6	3274.4	3292.9	3303.9	3305.7	3318.6	3327.9	3318.6	3322.4
25°	3143.8	3162.2	3180.6	3208.2	3224.8	3237.6	3250.6	3252.4	3261.6	3259.7	3257.9
27.5°	3018.6	3042.6	3073.8	3095.9	3118.0	3138.3	3153.0	3156.6	3165.9	3162.2	3164.1
30°	2847.4	2873.2	2902.7	2937.6	2968.9	2989.1	3007.6	3020.4	3029.6	3024.1	3022.3
32.5°	2604.5	2630.2	2661.5	2696.5	2733.3	2762.8	2784.8	2801.5	2812.5	2808.8	2799.6
35°	2326.6	2333.9	2354.2	2381.7	2413.0	2444.3	2464.6	2483.0	2495.8	2499.5	2499.5
37.5°	2041.2	2017.4	2002.6	2002.6	2021.0	2033.9	2052.3	2063.4	2083.6	2090.9	2096.4
40°	1765.1	1709.9	1658.4	1619.8	1594.0	1592.1	1592.1	1597.6	1616.1	1640.0	1662.1
42.5°	1518.5	1430.1	1351.0	1279.2	1227.7	1198.2	1185.4	1187.2	1202.0	1224.0	1260.8
45°	1321.5	1211.2	1111.7	1025.2	955.2	909.2	887.2	885.4	896.4	922.2	962.7
47.5°	1168.8	1051.0	938.7	839.4	763.9	714.2	688.4	681.1	688.4	712.4	760.2
50°	1041.8	920.4	804.4	701.3	620.3	568.8	544.8	535.6	544.8	565.1	612.9
52.5°	924.0	798.9	690.2	590.8	504.3	460.1	434.4	428.8	434.4	458.3	497.0
55°	787.8	681.1	574.3	474.9	399.5	355.3	335.0	329.5	335.0	357.1	397.6
57.5°	653.4	561.4	467.6	377.3	312.9	274.3	255.8	248.5	261.3	276.1	324.0
60°	528.2	454.6	375.5	296.3	243.0	208.0	193.3	191.4	195.1	213.5	246.6
62.5°	414.1	353.4	290.8	226.4	182.2	167.5	149.1	147.3	151.0	162.0	187.8
65°	298.2	259.5	211.7	165.6	130.7	110.5	103.0	105.0	108.6	116.0	139.8
67.5°	208.0	180.3	147.3	116.0	90.2	81.0	73.7	71.8	73.7	86.5	99.4
70°	139.8	123.3	99.4	88.3	62.6	49.7	51.5	46.0	53.3	53.3	64.4
72.5°	92.0	81.0	66.3	51.5	44.2	35.0	35.0	33.2	36.8	38.6	47.9
75°	47.9	36.8	36.8	25.8	18.4	9.2	16.5	14.7	12.8	14.7	18.4
77.5°	33.2	27.6	25.8	20.2	18.4	14.7	14.7	14.7	14.7	16.5	18.4
80°	20.2	20.2	14.7	12.8	11.0	9.2	11.0	11.0	11.0	11.0	12.8
82.5°	12.8	11.0	11.0	9.2	9.2	7.3	7.3	7.3	7.3	7.3	11.0
85°	11.0	7.3	7.3	5.5	7.3	12.8	5.5	7.3	7.3	7.3	5.5
87.5°	3.7	5.5	5.5	5.5	3.7	1.8	3.7	5.5	5.5	9.2	7.3
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°	3429.1	3429.1	3429.1	3429.1	3429.1	3429.1	3429.1	3429.1	3429.1	3429.1	3429.1
2.5°	3434.6	3436.4	3436.4	3434.6	3434.6	3430.9	3438.2	3432.7	3434.6	3441.9	3436.4
5°	3438.2	3440.1	3440.1	3438.2	3438.2	3438.2	3440.1	3440.1	3438.2	3436.4	3440.1
7.5°	3445.6	3443.7	3443.7	3440.1	3440.1	3436.4	3440.1	3434.6	3438.2	3434.6	3440.1
10°	3436.4	3438.2	3436.4	3434.6	3434.6	3432.7	3432.7	3427.2	3429.1	3423.5	3427.2
12.5°	3430.9	3429.1	3429.1	3425.4	3421.7	3418.1	3416.2	3410.7	3410.7	3397.7	3403.4
15°	3416.2	3418.1	3412.5	3405.2	3401.4	3392.3	3388.6	3381.2	3373.9	3364.6	3366.6
17.5°	3403.4	3397.7	3390.4	3383.0	3368.4	3360.9	3353.6	3342.6	3338.9	3327.9	3324.2
20°	3364.6	3360.9	3351.8	3338.9	3329.7	3313.1	3305.7	3294.7	3285.4	3274.4	3268.9
22.5°	3314.9	3311.2	3300.2	3287.4	3272.6	3265.3	3257.9	3237.6	3228.4	3217.4	3215.6
25°	3252.4	3246.9	3235.8	3221.1	3213.7	3193.4	3186.1	3171.4	3167.7	3156.6	3154.8
27.5°	3156.6	3149.3	3136.4	3118.0	3105.1	3092.3	3084.9	3073.8	3070.1	3059.1	3057.3
30°	3013.1	3003.9	2978.1	2970.8	2948.6	2935.8	2935.8	2921.1	2922.9	2915.5	2915.5
32.5°	2786.7	2772.0	2751.8	2737.0	2722.3	2715.0	2715.0	2709.3	2713.0	2713.0	2716.8
35°	2486.7	2466.5	2455.3	2446.2	2446.2	2453.5	2475.7	2481.2	2492.2	2501.4	2508.8
37.5°	2102.0	2100.2	2113.1	2124.1	2151.7	2183.0	2221.6	2254.7	2286.0	2308.2	2330.2
40°	1686.0	1732.0	1768.8	1820.4	1862.7	1923.4	1993.4	2050.4	2103.9	2142.5	2183.0
42.5°	1316.0	1375.0	1452.3	1527.8	1603.1	1686.0	1778.1	1857.2	1927.1	1980.4	2022.9
45°	1025.2	1106.2	1200.1	1295.8	1393.3	1496.5	1592.1	1673.1	1746.8	1802.0	1844.3
47.5°	826.4	914.7	1021.5	1126.5	1236.9	1345.5	1452.3	1522.2	1582.9	1627.1	1665.8
50°	682.9	776.7	889.0	1008.7	1119.0	1227.7	1319.7	1387.8	1437.5	1476.2	1500.1
52.5°	570.6	669.9	789.6	909.2	1019.7	1119.0	1202.0	1253.5	1294.0	1321.5	1343.6
55°	471.2	566.9	679.2	791.4	900.1	993.9	1062.0	1100.7	1132.0	1148.5	1161.4
57.5°	384.8	473.1	576.1	679.2	773.1	850.4	903.7	942.4	957.2	970.0	968.2
60°	301.8	384.8	478.6	566.9	647.9	710.4	749.1	771.2	782.2	787.8	784.1
62.5°	237.5	312.9	384.8	462.0	520.9	574.3	611.1	611.1	616.6	618.4	624.0
65°	176.6	233.8	296.3	353.4	401.3	436.3	456.5	462.0	469.4	467.6	463.8
67.5°	130.7	173.0	219.0	261.3	294.5	316.6	331.3	344.2	342.3	338.6	336.8
70°	90.2	117.8	158.3	184.0	208.0	230.1	233.8	235.6	237.5	239.3	235.6
72.5°	62.6	82.8	105.0	127.0	141.8	151.0	160.2	162.0	162.0	162.0	160.2
75°	31.3	42.3	62.6	71.8	84.7	88.3	95.7	95.7	101.2	93.8	92.0
77.5°	27.6	33.2	44.2	51.5	57.0	62.6	64.4	70.0	68.1	64.4	66.3
80°	16.5	20.2	27.6	31.3	38.6	40.5	42.3	44.2	42.3	44.2	44.2
82.5°	12.8	14.7	18.4	18.4	24.0	24.0	25.8	25.8	27.6	27.6	27.6
85°	7.3	12.8	11.0	22.0	14.7	14.7	18.4	22.0	18.4	18.4	22.0
87.5°	7.3	7.3	5.5	7.3	7.3	7.3	9.2	11.0	11.0	12.8	11.0
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: P249390

CATALOG NUMBER: LD8B80D010 ER8B80927 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3429.1	3429.1	3429.1	3429.1
2.5°	3434.6	3438.2	3432.7	3430.9
5°	3440.1	3440.1	3436.4	3436.4
7.5°	3440.1	3440.1	3434.6	3430.9
10°	3425.4	3425.4	3419.9	3416.2
12.5°	3397.7	3397.7	3395.9	3390.4
15°	3362.8	3362.8	3355.4	3349.9
17.5°	3314.9	3318.6	3309.4	3309.4
20°	3263.4	3261.6	3254.3	3250.6
22.5°	3210.1	3206.4	3204.6	3193.4
25°	3153.0	3149.3	3143.8	3138.3
27.5°	3055.4	3053.6	3048.1	3040.8
30°	2906.3	2904.5	2897.1	2897.1
32.5°	2713.0	2711.2	2703.8	2705.7
35°	2512.5	2519.8	2516.2	2508.8
37.5°	2345.0	2350.5	2354.2	2350.5
40°	2205.0	2221.6	2223.5	2227.2
42.5°	2055.9	2078.1	2085.4	2089.1
45°	1877.4	1897.6	1914.3	1910.6
47.5°	1695.2	1709.9	1724.6	1713.6
50°	1520.3	1529.6	1535.1	1535.1
52.5°	1354.7	1354.7	1352.8	1354.7
55°	1165.0	1165.0	1157.7	1161.4
57.5°	966.3	970.0	964.5	955.2
60°	782.2	773.1	769.4	763.9
62.5°	609.3	609.3	596.4	612.9
65°	456.5	450.9	445.4	443.6
67.5°	331.3	329.5	324.0	322.1
70°	233.8	226.4	224.6	220.8
72.5°	156.5	156.5	152.8	152.8
75°	95.7	86.5	84.7	86.5
77.5°	66.3	64.4	64.4	62.6
80°	44.2	42.3	46.0	40.5
82.5°	27.6	29.5	27.6	29.5
85°	18.4	22.0	20.2	20.2
87.5°	11.0	11.0	11.0	11.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)