

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: P248904

Luminaire Tested: **LD8B80D010 ER8B80850 8LBSW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248904  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13958)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B80D010 ER8B80850 8LBSW0B  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 5000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6478.0 lumens  
Efficiency: N/A  
Efficacy: 87.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

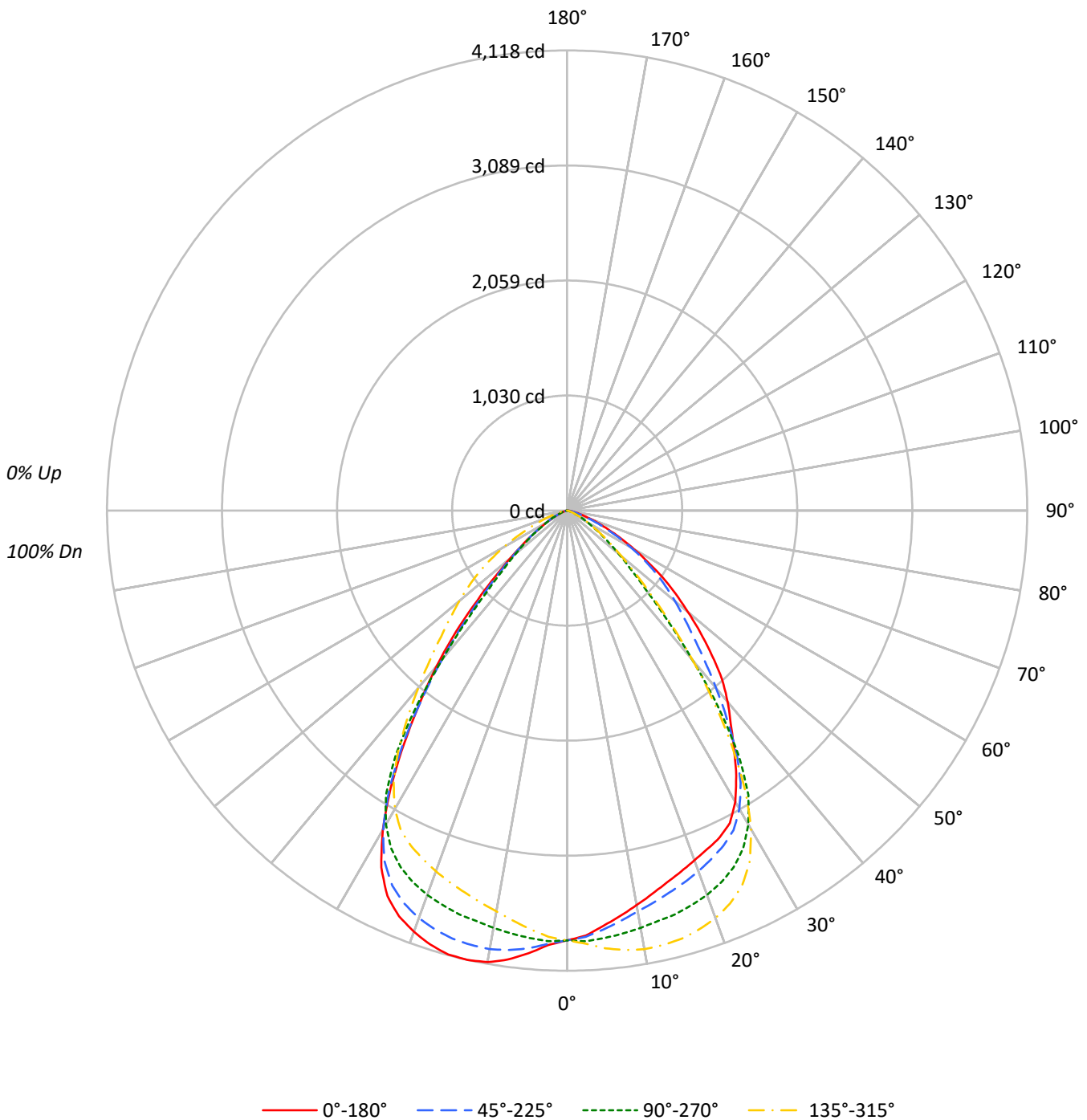
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	118590	118590	118590	118590
5°	115440	118867	123114	118867
10°	112247	118713	128473	118713
15°	110004	119418	131285	119418
20°	109255	120101	131622	120101
25°	109830	119860	129509	119860
30°	107112	115473	117548	115473
35°	97977	100732	95571	100732
40°	89951	70070	73174	70070
45°	79927	42746	49461	42746
50°	67651	28553	31710	28553
55°	56030	19483	20596	19483
60°	42733	12970	13087	12970
65°	30280	8085	7399	8085
70°	21837	5419	4914	5419
75°	13868	2693	2240	2693
80°	9678	2007	1669	2007
85°	8633	0	672	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	366.0	5.7
10°-20°	1060.0	16.4
20°-30°	1605.1	24.8
30°-40°	1608.7	24.8
40°-50°	1010.2	15.6
50°-60°	538.3	8.3
60°-70°	221.4	3.4
70°-80°	58.5	0.9
80°-90°	9.9	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°	3031.1	46.8
0°-40°	4639.8	71.6
0°-60°	6188.3	95.5
0°-90°	6478.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6478.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3846	3846	3846	3846	3846	
5°	3729	3840	3977	3840	3729	352
15°	3446	3741	4112	3741	3446	975
25°	3228	3523	3806	3523	3228	1480
35°	2603	2676	2539	2676	2603	1631
45°	1833	980	1134	980	1833	1410
55°	1042	362	383	362	1042	929
65°	415	111	101	111	415	430
75°	116	23	19	23	116	132
85°	24	0	2	0	24	27
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°	3845.8	3845.8	3845.8	3845.8	3845.8	3845.8	3845.8	3845.8	3845.8	3845.8	3845.8
2.5°	3806.4	3802.6	3800.7	3804.5	3806.4	3813.9	3812.0	3815.7	3815.7	3817.6	3821.4
5°	3729.4	3727.4	3729.4	3729.4	3736.9	3744.4	3742.5	3748.2	3751.9	3761.3	3765.0
7.5°	3658.0	3658.0	3656.1	3663.6	3667.4	3678.7	3676.7	3686.2	3691.8	3701.2	3714.3
10°	3584.8	3584.8	3586.6	3592.3	3594.2	3611.0	3611.0	3624.2	3631.7	3641.1	3658.0
12.5°	3513.4	3513.4	3524.7	3520.9	3528.4	3541.6	3547.2	3560.3	3571.6	3590.4	3607.3
15°	3445.8	3445.8	3449.6	3458.9	3464.6	3481.5	3490.9	3505.9	3519.1	3537.8	3562.3
17.5°	3387.6	3385.7	3387.6	3398.9	3410.2	3425.2	3432.7	3451.4	3464.6	3489.0	3511.6
20°	3329.4	3333.2	3333.2	3342.5	3350.0	3368.8	3376.3	3397.0	3412.0	3434.5	3460.9
22.5°	3278.7	3276.8	3276.8	3290.0	3295.6	3312.5	3320.0	3338.7	3355.7	3374.5	3398.9
25°	3228.0	3224.2	3231.8	3233.6	3237.3	3256.1	3261.8	3274.9	3291.8	3308.8	3333.2
27.5°	3152.9	3149.1	3151.0	3158.5	3164.1	3179.1	3182.9	3196.1	3209.2	3224.2	3244.9
30°	3008.2	3004.5	3002.7	3015.8	3021.5	3032.7	3038.3	3060.9	3064.6	3081.5	3096.5
32.5°	2816.7	2814.9	2818.6	2829.8	2835.5	2850.6	2858.1	2871.2	2880.6	2890.0	2905.0
35°	2602.7	2598.9	2602.7	2614.0	2614.0	2627.1	2632.7	2638.3	2636.5	2638.3	2634.6
37.5°	2403.7	2401.7	2403.7	2409.2	2403.7	2409.2	2403.7	2392.4	2371.7	2349.2	2326.6
40°	2234.6	2236.5	2225.3	2232.8	2212.0	2208.3	2187.7	2159.5	2118.2	2073.1	2009.3
42.5°	2054.4	2048.7	2041.2	2044.9	2028.1	2014.9	1981.1	1945.5	1892.8	1817.8	1740.7
45°	1832.8	1830.9	1827.1	1825.3	1814.0	1800.8	1772.6	1731.4	1673.2	1596.2	1504.1
47.5°	1616.8	1611.2	1611.2	1613.0	1599.9	1598.0	1575.5	1539.8	1489.1	1414.0	1318.2
50°	1410.2	1408.4	1412.1	1419.6	1410.2	1406.5	1391.5	1367.1	1322.0	1258.2	1168.0
52.5°	1224.3	1222.5	1226.3	1235.6	1231.8	1235.6	1220.6	1201.8	1171.8	1109.8	1030.9
55°	1042.2	1042.2	1042.2	1053.4	1053.4	1053.4	1045.9	1034.7	1006.5	961.4	888.2
57.5°	852.5	854.4	865.7	867.5	865.7	869.5	867.5	856.3	837.5	805.6	749.3
60°	692.9	692.9	698.6	704.2	702.3	704.2	704.2	698.6	679.8	653.5	608.4
62.5°	548.3	554.0	550.2	554.0	561.5	554.0	550.2	546.5	533.3	516.4	478.8
65°	415.0	418.8	418.8	420.6	416.8	418.8	411.3	405.6	398.1	379.4	354.9
67.5°	315.5	315.5	315.5	315.5	313.6	311.7	309.9	304.2	291.1	283.6	257.2
70°	242.2	231.0	231.0	231.0	231.0	232.9	227.2	219.7	216.0	202.8	184.0
72.5°	161.5	165.3	161.5	161.5	157.8	159.6	152.1	148.3	144.6	137.1	125.8
75°	116.4	107.1	110.8	112.7	107.1	110.8	103.3	95.8	95.8	90.1	84.5
77.5°	75.1	73.3	75.1	77.0	75.1	73.3	69.5	65.7	65.7	63.8	58.2
80°	54.5	52.6	52.6	52.6	50.7	52.6	48.8	48.8	45.1	43.2	39.4
82.5°	35.7	35.7	33.8	35.7	33.8	35.7	30.1	30.1	30.1	28.1	24.4
85°	24.4	20.6	20.6	22.6	18.8	22.6	20.6	18.8	16.9	16.9	15.0
87.5°	11.3	13.1	11.3	13.1	11.3	11.3	13.1	11.3	11.3	7.5	7.5
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: P248904

CATALOG NUMBER: LD8B80D010 ER8B80850 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3845.8	3845.8	3845.8	3845.8	3845.8	3845.8	3845.8	3845.8	3845.8	3845.8	3845.8
2.5°	3827.0	3828.9	3828.9	3836.4	3840.1	3842.0	3842.0	3857.1	3851.4	3855.2	3858.9
5°	3772.6	3783.8	3787.6	3787.6	3808.2	3815.7	3823.2	3840.1	3842.0	3853.3	3866.4
7.5°	3720.0	3733.1	3740.7	3757.5	3770.7	3783.8	3806.4	3817.6	3828.9	3843.9	3860.8
10°	3669.2	3684.3	3699.3	3712.5	3733.1	3750.0	3765.0	3791.3	3804.5	3825.1	3847.6
12.5°	3620.5	3641.1	3654.3	3676.7	3699.3	3714.3	3736.9	3761.3	3781.9	3802.6	3828.9
15°	3577.3	3601.7	3616.7	3641.1	3665.5	3686.2	3710.6	3740.7	3755.7	3780.1	3804.5
17.5°	3530.3	3556.6	3575.4	3597.9	3628.0	3650.5	3671.2	3701.2	3720.0	3746.2	3774.4
20°	3481.5	3507.8	3530.3	3552.8	3582.9	3605.4	3629.8	3659.9	3680.5	3706.8	3729.4
22.5°	3423.3	3447.7	3472.1	3498.4	3528.4	3547.2	3575.4	3601.7	3624.2	3648.6	3671.2
25°	3348.2	3378.2	3397.0	3421.4	3445.8	3466.4	3496.5	3522.8	3541.6	3564.1	3584.8
27.5°	3259.9	3282.5	3297.5	3318.1	3342.5	3361.3	3383.8	3410.2	3428.9	3449.6	3464.6
30°	3109.6	3130.4	3143.5	3158.5	3182.9	3199.8	3218.6	3243.0	3256.1	3271.2	3284.3
32.5°	2912.5	2929.4	2936.9	2948.2	2965.1	2982.0	2997.0	3017.7	3023.3	3032.7	3032.7
35°	2627.1	2630.8	2629.0	2632.7	2640.2	2649.6	2662.7	2675.9	2683.4	2683.4	2677.8
37.5°	2292.8	2270.3	2245.9	2227.1	2221.5	2217.7	2225.3	2230.8	2238.4	2242.1	2232.8
40°	1945.5	1894.8	1840.3	1791.4	1757.6	1742.6	1737.0	1740.7	1740.7	1753.9	1753.9
42.5°	1646.9	1568.0	1487.3	1414.0	1365.1	1327.7	1310.7	1310.7	1312.6	1322.0	1327.7
45°	1399.0	1299.4	1205.5	1124.8	1057.2	1008.4	985.9	980.2	978.4	982.1	995.2
47.5°	1209.3	1106.1	1008.4	908.9	837.5	788.7	768.1	760.5	753.0	760.5	762.4
50°	1061.0	953.9	850.7	751.1	676.0	632.8	606.5	595.2	593.4	593.4	597.2
52.5°	925.7	826.3	723.0	621.6	542.7	501.4	477.0	471.3	463.8	471.3	471.3
55°	798.0	698.6	597.2	501.4	435.6	392.5	369.9	362.4	358.6	364.3	364.3
57.5°	659.2	574.6	480.8	394.3	328.6	298.6	281.7	272.3	270.4	274.2	270.4
60°	540.8	469.5	388.7	309.9	259.2	227.2	214.1	210.3	206.5	210.3	210.3
62.5°	428.1	368.1	302.3	242.2	199.0	176.5	161.5	161.5	159.6	159.6	161.5
65°	317.4	270.4	223.5	172.7	139.0	122.0	110.8	110.8	108.9	110.8	108.9
67.5°	231.0	199.0	161.5	125.8	99.6	90.1	82.6	77.0	80.8	77.0	75.1
70°	169.0	142.7	116.4	95.8	77.0	67.6	62.0	60.1	56.3	56.3	56.3
72.5°	112.7	95.8	78.8	62.0	50.7	41.3	39.4	35.7	31.9	33.8	37.6
75°	75.1	63.8	56.3	45.1	33.8	33.8	22.6	22.6	18.8	22.6	16.9
77.5°	52.6	43.2	33.8	28.1	22.6	20.6	15.0	15.0	13.1	13.1	13.1
80°	37.6	31.9	24.4	20.6	15.0	15.0	13.1	11.3	9.4	9.4	11.3
82.5°	22.6	16.9	16.9	15.0	9.4	7.5	5.6	7.5	3.8	3.8	3.8
85°	13.1	11.3	9.4	5.6	3.8	3.8	1.9	0.0	1.9	1.9	0.0
87.5°	7.5	3.8	3.8	1.9	0.0	1.9	1.9	0.0	0.0	0.0	3.8
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°	3845.8	3845.8	3845.8	3845.8	3845.8	3845.8	3845.8	3845.8	3845.8	3845.8	3845.8
2.5°	3868.4	3866.4	3870.2	3870.2	3881.5	3879.6	3885.2	3885.2	3881.5	3883.3	3890.8
5°	3881.5	3887.1	3898.3	3907.8	3924.6	3932.2	3941.5	3951.0	3952.8	3958.5	3964.1
7.5°	3881.5	3900.3	3913.4	3930.3	3952.8	3966.0	3986.6	4003.5	4011.0	4020.4	4031.7
10°	3873.9	3892.7	3917.1	3935.9	3964.1	3984.8	4005.4	4031.7	4043.0	4058.0	4073.0
12.5°	3858.9	3879.6	3905.8	3930.3	3962.2	3981.0	4007.2	4031.7	4048.6	4069.2	4086.2
15°	3836.4	3860.8	3885.2	3909.6	3943.4	3966.0	3990.4	4018.5	4035.5	4058.0	4073.0
17.5°	3800.7	3827.0	3849.6	3872.1	3904.0	3930.3	3952.8	3979.1	3996.0	4014.8	4035.5
20°	3757.5	3781.9	3806.4	3825.1	3857.1	3879.6	3904.0	3928.4	3941.5	3945.3	3977.3
22.5°	3703.1	3720.0	3738.7	3768.8	3787.6	3808.2	3830.8	3853.3	3866.4	3887.1	3898.3
25°	3612.9	3629.8	3650.5	3663.6	3686.2	3703.1	3725.6	3750.0	3757.5	3772.6	3783.8
27.5°	3487.1	3496.5	3505.9	3517.1	3530.3	3539.7	3552.8	3564.1	3571.6	3579.1	3586.6
30°	3288.0	3288.0	3288.0	3280.5	3286.2	3291.8	3293.7	3291.8	3291.8	3290.0	3290.0
32.5°	3025.2	3010.2	2993.2	2978.2	2972.6	2965.1	2961.3	2955.7	2946.3	2940.7	2942.5
35°	2670.2	2636.5	2615.8	2597.0	2582.0	2570.8	2565.1	2559.5	2557.6	2550.1	2542.5
37.5°	2227.1	2202.7	2187.7	2176.4	2163.3	2152.0	2153.8	2155.8	2161.3	2157.6	2159.5
40°	1757.6	1752.0	1757.6	1744.5	1740.7	1744.5	1753.9	1767.1	1774.6	1782.1	1795.2
42.5°	1337.0	1346.4	1359.6	1359.6	1365.1	1372.7	1383.9	1404.6	1415.9	1429.0	1444.1
45°	1006.5	1017.8	1034.7	1040.3	1044.1	1053.4	1066.6	1083.5	1091.0	1102.3	1115.4
47.5°	775.6	783.1	792.4	801.8	811.2	815.0	828.1	828.1	837.5	845.0	848.8
50°	604.7	612.2	619.7	625.3	629.1	634.7	638.4	644.1	645.9	649.7	651.6
52.5°	473.2	482.6	482.6	486.3	492.0	497.6	495.8	497.6	499.5	499.5	505.1
55°	369.9	369.9	375.6	375.6	379.4	377.4	379.4	379.4	379.4	379.4	381.2
57.5°	276.0	277.9	283.6	279.8	277.9	281.7	277.9	281.7	279.8	283.6	277.9
60°	212.2	212.2	214.1	214.1	216.0	216.0	216.0	214.1	214.1	212.2	212.2
62.5°	159.6	161.5	163.4	161.5	161.5	161.5	159.6	159.6	157.8	155.8	155.8
65°	107.1	105.2	108.9	105.2	107.1	107.1	105.2	107.1	101.4	103.3	101.4
67.5°	77.0	75.1	73.3	75.1	73.3	71.3	71.3	73.3	75.1	69.5	69.5
70°	50.7	52.6	50.7	52.6	54.5	54.5	52.6	50.7	52.6	48.8	50.7
72.5°	31.9	31.9	31.9	31.9	31.9	33.8	33.8	33.8	30.1	30.1	28.1
75°	15.0	20.6	16.9	15.0	20.6	20.6	18.8	18.8	16.9	16.9	16.9
77.5°	15.0	11.3	11.3	11.3	11.3	11.3	11.3	11.3	9.4	11.3	9.4
80°	7.5	7.5	7.5	5.6	7.5	7.5	9.4	7.5	7.5	5.6	9.4
82.5°	3.8	3.8	3.8	0.0	1.9	3.8	3.8	1.9	3.8	3.8	1.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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: P248904

CATALOG NUMBER: LD8B80D010 ER8B80850 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3845.8	3845.8	3845.8	3845.8	3845.8	3845.8	3845.8	3845.8	3845.8	3845.8	3845.8
2.5°	3889.0	3887.1	3889.0	3890.8	3889.0	3887.1	3889.0	3890.8	3883.3	3881.5	3885.2
5°	3971.6	3971.6	3975.3	3977.3	3975.3	3971.6	3971.6	3964.1	3958.5	3952.8	3951.0
7.5°	4043.0	4046.7	4050.5	4052.3	4050.5	4046.7	4043.0	4031.7	4020.4	4011.0	4003.5
10°	4086.2	4091.8	4099.3	4103.0	4099.3	4091.8	4086.2	4073.0	4058.0	4043.0	4031.7
12.5°	4104.9	4110.6	4119.9	4118.1	4119.9	4110.6	4104.9	4086.2	4069.2	4048.6	4031.7
15°	4091.8	4099.3	4108.7	4112.4	4108.7	4099.3	4091.8	4073.0	4058.0	4035.5	4018.5
17.5°	4050.5	4061.7	4067.4	4073.0	4067.4	4061.7	4050.5	4035.5	4014.8	3996.0	3979.1
20°	3994.1	4001.7	4009.2	4011.0	4009.2	4001.7	3994.1	3977.3	3945.3	3941.5	3928.4
22.5°	3913.4	3919.1	3935.9	3930.3	3935.9	3919.1	3913.4	3898.3	3887.1	3866.4	3853.3
25°	3796.9	3802.6	3804.5	3806.4	3804.5	3802.6	3796.9	3783.8	3772.6	3757.5	3750.0
27.5°	3596.1	3596.1	3599.8	3601.7	3599.8	3596.1	3596.1	3586.6	3579.1	3571.6	3564.1
30°	3291.8	3291.8	3291.8	3301.3	3291.8	3291.8	3291.8	3290.0	3290.0	3291.8	3291.8
32.5°	2940.7	2936.9	2933.2	2936.9	2933.2	2936.9	2940.7	2942.5	2940.7	2946.3	2955.7
35°	2542.5	2540.7	2546.3	2538.8	2546.3	2540.7	2542.5	2542.5	2550.1	2557.6	2559.5
37.5°	2161.3	2157.6	2165.1	2157.6	2165.1	2157.6	2161.3	2159.5	2157.6	2161.3	2155.8
40°	1799.0	1802.7	1802.7	1817.8	1802.7	1802.7	1799.0	1795.2	1782.1	1774.6	1767.1
42.5°	1451.6	1462.8	1459.1	1470.3	1459.1	1462.8	1451.6	1444.1	1429.0	1415.9	1404.6
45°	1122.9	1130.5	1130.5	1134.2	1130.5	1130.5	1122.9	1115.4	1102.3	1091.0	1083.5
47.5°	861.9	861.9	861.9	863.8	861.9	861.9	861.9	848.8	845.0	837.5	828.1
50°	655.4	657.2	659.2	661.0	659.2	657.2	655.4	651.6	649.7	645.9	644.1
52.5°	503.3	505.1	501.4	505.1	501.4	505.1	503.3	505.1	499.5	499.5	497.6
55°	381.2	379.4	381.2	383.1	381.2	379.4	381.2	381.2	379.4	379.4	379.4
57.5°	279.8	276.0	276.0	276.0	276.0	276.0	279.8	277.9	283.6	279.8	281.7
60°	208.5	210.3	210.3	212.2	210.3	210.3	208.5	212.2	212.2	214.1	214.1
62.5°	154.0	159.6	155.8	159.6	155.8	159.6	154.0	155.8	155.8	157.8	159.6
65°	99.6	99.6	99.6	101.4	99.6	99.6	99.6	101.4	103.3	101.4	107.1
67.5°	67.6	69.5	73.3	71.3	73.3	69.5	67.6	69.5	69.5	75.1	73.3
70°	54.5	48.8	48.8	54.5	48.8	48.8	54.5	50.7	48.8	52.6	50.7
72.5°	31.9	28.1	31.9	31.9	31.9	28.1	31.9	28.1	30.1	30.1	33.8
75°	16.9	15.0	13.1	18.8	13.1	15.0	16.9	16.9	16.9	16.9	18.8
77.5°	11.3	9.4	13.1	13.1	13.1	9.4	11.3	9.4	11.3	9.4	11.3
80°	5.6	7.5	5.6	9.4	5.6	7.5	5.6	9.4	5.6	7.5	7.5
82.5°	1.9	3.8	3.8	3.8	3.8	3.8	1.9	1.9	3.8	3.8	1.9
85°	0.0	3.8	1.9	1.9	1.9	3.8	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	0.0	0.0	1.9	0.0	0.0	1.9	0.0	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: P248904

CATALOG NUMBER: LD8B80D010 ER8B80850 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3845.8	3845.8	3845.8	3845.8	3845.8	3845.8	3845.8	3845.8	3845.8	3845.8	3845.8
2.5°	3885.2	3879.6	3881.5	3870.2	3870.2	3866.4	3868.4	3858.9	3855.2	3851.4	3857.1
5°	3941.5	3932.2	3924.6	3907.8	3898.3	3887.1	3881.5	3866.4	3853.3	3842.0	3840.1
7.5°	3986.6	3966.0	3952.8	3930.3	3913.4	3900.3	3881.5	3860.8	3843.9	3828.9	3817.6
10°	4005.4	3984.8	3964.1	3935.9	3917.1	3892.7	3873.9	3847.6	3825.1	3804.5	3791.3
12.5°	4007.2	3981.0	3962.2	3930.3	3905.8	3879.6	3858.9	3828.9	3802.6	3781.9	3761.3
15°	3990.4	3966.0	3943.4	3909.6	3885.2	3860.8	3836.4	3804.5	3780.1	3755.7	3740.7
17.5°	3952.8	3930.3	3904.0	3872.1	3849.6	3827.0	3800.7	3774.4	3746.2	3720.0	3701.2
20°	3904.0	3879.6	3857.1	3825.1	3806.4	3781.9	3757.5	3729.4	3706.8	3680.5	3659.9
22.5°	3830.8	3808.2	3787.6	3768.8	3738.7	3720.0	3703.1	3671.2	3648.6	3624.2	3601.7
25°	3725.6	3703.1	3686.2	3663.6	3650.5	3629.8	3612.9	3584.8	3564.1	3541.6	3522.8
27.5°	3552.8	3539.7	3530.3	3517.1	3505.9	3496.5	3487.1	3464.6	3449.6	3428.9	3410.2
30°	3293.7	3291.8	3286.2	3280.5	3288.0	3288.0	3288.0	3284.3	3271.2	3256.1	3243.0
32.5°	2961.3	2965.1	2972.6	2978.2	2993.2	3010.2	3025.2	3032.7	3032.7	3023.3	3017.7
35°	2565.1	2570.8	2582.0	2597.0	2615.8	2636.5	2670.2	2677.8	2683.4	2683.4	2675.9
37.5°	2153.8	2152.0	2163.3	2176.4	2187.7	2202.7	2227.1	2232.8	2242.1	2238.4	2230.8
40°	1753.9	1744.5	1740.7	1744.5	1757.6	1752.0	1757.6	1753.9	1753.9	1740.7	1740.7
42.5°	1383.9	1372.7	1365.1	1359.6	1359.6	1346.4	1337.0	1327.7	1322.0	1312.6	1310.7
45°	1066.6	1053.4	1044.1	1040.3	1034.7	1017.8	1006.5	995.2	982.1	978.4	980.2
47.5°	828.1	815.0	811.2	801.8	792.4	783.1	775.6	762.4	760.5	753.0	760.5
50°	638.4	634.7	629.1	625.3	619.7	612.2	604.7	597.2	593.4	593.4	595.2
52.5°	495.8	497.6	492.0	486.3	482.6	482.6	473.2	471.3	471.3	463.8	471.3
55°	379.4	377.4	379.4	375.6	375.6	369.9	369.9	364.3	364.3	358.6	362.4
57.5°	277.9	281.7	277.9	279.8	283.6	277.9	276.0	270.4	274.2	270.4	272.3
60°	216.0	216.0	216.0	214.1	214.1	212.2	212.2	210.3	210.3	206.5	210.3
62.5°	159.6	161.5	161.5	161.5	163.4	161.5	159.6	161.5	159.6	159.6	161.5
65°	105.2	107.1	107.1	105.2	108.9	105.2	107.1	108.9	110.8	108.9	110.8
67.5°	71.3	71.3	73.3	75.1	73.3	75.1	77.0	75.1	77.0	80.8	77.0
70°	52.6	54.5	54.5	52.6	50.7	52.6	50.7	56.3	56.3	56.3	60.1
72.5°	33.8	33.8	31.9	31.9	31.9	31.9	31.9	37.6	33.8	31.9	35.7
75°	18.8	20.6	20.6	15.0	16.9	20.6	15.0	16.9	22.6	18.8	22.6
77.5°	11.3	11.3	11.3	11.3	11.3	11.3	15.0	13.1	13.1	13.1	15.0
80°	9.4	7.5	7.5	5.6	7.5	7.5	7.5	11.3	9.4	9.4	11.3
82.5°	3.8	3.8	1.9	0.0	3.8	3.8	3.8	3.8	3.8	3.8	7.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	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: P248904

CATALOG NUMBER: LD8B80D010 ER8B80850 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3845.8	3845.8	3845.8	3845.8	3845.8	3845.8	3845.8	3845.8	3845.8	3845.8	3845.8
2.5°	3842.0	3842.0	3840.1	3836.4	3828.9	3828.9	3827.0	3821.4	3817.6	3815.7	3815.7
5°	3823.2	3815.7	3808.2	3787.6	3787.6	3783.8	3772.6	3765.0	3761.3	3751.9	3748.2
7.5°	3806.4	3783.8	3770.7	3757.5	3740.7	3733.1	3720.0	3714.3	3701.2	3691.8	3686.2
10°	3765.0	3750.0	3733.1	3712.5	3699.3	3684.3	3669.2	3658.0	3641.1	3631.7	3624.2
12.5°	3736.9	3714.3	3699.3	3676.7	3654.3	3641.1	3620.5	3607.3	3590.4	3571.6	3560.3
15°	3710.6	3686.2	3665.5	3641.1	3616.7	3601.7	3577.3	3562.3	3537.8	3519.1	3505.9
17.5°	3671.2	3650.5	3628.0	3597.9	3575.4	3556.6	3530.3	3511.6	3489.0	3464.6	3451.4
20°	3629.8	3605.4	3582.9	3552.8	3530.3	3507.8	3481.5	3460.9	3434.5	3412.0	3397.0
22.5°	3575.4	3547.2	3528.4	3498.4	3472.1	3447.7	3423.3	3398.9	3374.5	3355.7	3338.7
25°	3496.5	3466.4	3445.8	3421.4	3397.0	3378.2	3348.2	3333.2	3308.8	3291.8	3274.9
27.5°	3383.8	3361.3	3342.5	3318.1	3297.5	3282.5	3259.9	3244.9	3224.2	3209.2	3196.1
30°	3218.6	3199.8	3182.9	3158.5	3143.5	3130.4	3109.6	3096.5	3081.5	3064.6	3060.9
32.5°	2997.0	2982.0	2965.1	2948.2	2936.9	2929.4	2912.5	2905.0	2890.0	2880.6	2871.2
35°	2662.7	2649.6	2640.2	2632.7	2629.0	2630.8	2627.1	2634.6	2638.3	2636.5	2638.3
37.5°	2225.3	2217.7	2221.5	2227.1	2245.9	2270.3	2292.8	2326.6	2349.2	2371.7	2392.4
40°	1737.0	1742.6	1757.6	1791.4	1840.3	1894.8	1945.5	2009.3	2073.1	2118.2	2159.5
42.5°	1310.7	1327.7	1365.1	1414.0	1487.3	1568.0	1646.9	1740.7	1817.8	1892.8	1945.5
45°	985.9	1008.4	1057.2	1124.8	1205.5	1299.4	1399.0	1504.1	1596.2	1673.2	1731.4
47.5°	768.1	788.7	837.5	908.9	1008.4	1106.1	1209.3	1318.2	1414.0	1489.1	1539.8
50°	606.5	632.8	676.0	751.1	850.7	953.9	1061.0	1168.0	1258.2	1322.0	1367.1
52.5°	477.0	501.4	542.7	621.6	723.0	826.3	925.7	1030.9	1109.8	1171.8	1201.8
55°	369.9	392.5	435.6	501.4	597.2	698.6	798.0	888.2	961.4	1006.5	1034.7
57.5°	281.7	298.6	328.6	394.3	480.8	574.6	659.2	749.3	805.6	837.5	856.3
60°	214.1	227.2	259.2	309.9	388.7	469.5	540.8	608.4	653.5	679.8	698.6
62.5°	161.5	176.5	199.0	242.2	302.3	368.1	428.1	478.8	516.4	533.3	546.5
65°	110.8	122.0	139.0	172.7	223.5	270.4	317.4	354.9	379.4	398.1	405.6
67.5°	82.6	90.1	99.6	125.8	161.5	199.0	231.0	257.2	283.6	291.1	304.2
70°	62.0	67.6	77.0	95.8	116.4	142.7	169.0	184.0	202.8	216.0	219.7
72.5°	39.4	41.3	50.7	62.0	78.8	95.8	112.7	125.8	137.1	144.6	148.3
75°	22.6	33.8	33.8	45.1	56.3	63.8	75.1	84.5	90.1	95.8	95.8
77.5°	15.0	20.6	22.6	28.1	33.8	43.2	52.6	58.2	63.8	65.7	65.7
80°	13.1	15.0	15.0	20.6	24.4	31.9	37.6	39.4	43.2	45.1	48.8
82.5°	5.6	7.5	9.4	15.0	16.9	16.9	22.6	24.4	28.1	30.1	30.1
85°	1.9	3.8	3.8	5.6	9.4	11.3	13.1	15.0	16.9	16.9	18.8
87.5°	1.9	1.9	0.0	1.9	3.8	3.8	7.5	7.5	7.5	11.3	11.3
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: P248904

CATALOG NUMBER: LD8B80D010 ER8B80850 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	3845.8	3845.8	3845.8	3845.8	3845.8	3845.8	3845.8
2.5°	3812.0	3813.9	3806.4	3804.5	3800.7	3802.6	3806.4
5°	3742.5	3744.4	3736.9	3729.4	3729.4	3727.4	3729.4
7.5°	3676.7	3678.7	3667.4	3663.6	3656.1	3658.0	3658.0
10°	3611.0	3611.0	3594.2	3592.3	3586.6	3584.8	3584.8
12.5°	3547.2	3541.6	3528.4	3520.9	3524.7	3513.4	3513.4
15°	3490.9	3481.5	3464.6	3458.9	3449.6	3445.8	3445.8
17.5°	3432.7	3425.2	3410.2	3398.9	3387.6	3385.7	3387.6
20°	3376.3	3368.8	3350.0	3342.5	3333.2	3333.2	3329.4
22.5°	3320.0	3312.5	3295.6	3290.0	3276.8	3276.8	3278.7
25°	3261.8	3256.1	3237.3	3233.6	3231.8	3224.2	3228.0
27.5°	3182.9	3179.1	3164.1	3158.5	3151.0	3149.1	3152.9
30°	3038.3	3032.7	3021.5	3015.8	3002.7	3004.5	3008.2
32.5°	2858.1	2850.6	2835.5	2829.8	2818.6	2814.9	2816.7
35°	2632.7	2627.1	2614.0	2614.0	2602.7	2598.9	2602.7
37.5°	2403.7	2409.2	2403.7	2409.2	2403.7	2401.7	2403.7
40°	2187.7	2208.3	2212.0	2232.8	2225.3	2236.5	2234.6
42.5°	1981.1	2014.9	2028.1	2044.9	2041.2	2048.7	2054.4
45°	1772.6	1800.8	1814.0	1825.3	1827.1	1830.9	1832.8
47.5°	1575.5	1598.0	1599.9	1613.0	1611.2	1611.2	1616.8
50°	1391.5	1406.5	1410.2	1419.6	1412.1	1408.4	1410.2
52.5°	1220.6	1235.6	1231.8	1235.6	1226.3	1222.5	1224.3
55°	1045.9	1053.4	1053.4	1053.4	1042.2	1042.2	1042.2
57.5°	867.5	869.5	865.7	867.5	865.7	854.4	852.5
60°	704.2	704.2	702.3	704.2	698.6	692.9	692.9
62.5°	550.2	554.0	561.5	554.0	550.2	554.0	548.3
65°	411.3	418.8	416.8	420.6	418.8	418.8	415.0
67.5°	309.9	311.7	313.6	315.5	315.5	315.5	315.5
70°	227.2	232.9	231.0	231.0	231.0	231.0	242.2
72.5°	152.1	159.6	157.8	161.5	161.5	165.3	161.5
75°	103.3	110.8	107.1	112.7	110.8	107.1	116.4
77.5°	69.5	73.3	75.1	77.0	75.1	73.3	75.1
80°	48.8	52.6	50.7	52.6	52.6	52.6	54.5
82.5°	30.1	35.7	33.8	35.7	33.8	35.7	35.7
85°	20.6	22.6	18.8	22.6	20.6	20.6	24.4
87.5°	13.1	11.3	11.3	13.1	11.3	13.1	11.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)