

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: FAIL-SAFE

Report Number: P838123

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-5HI-40-120-EDD**

Issue Date: 5/21/2024



Test Information

Test Method: LM-79-08
Report Number: P838123
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-4-INS-ASY2R-LD4-5HI-40-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

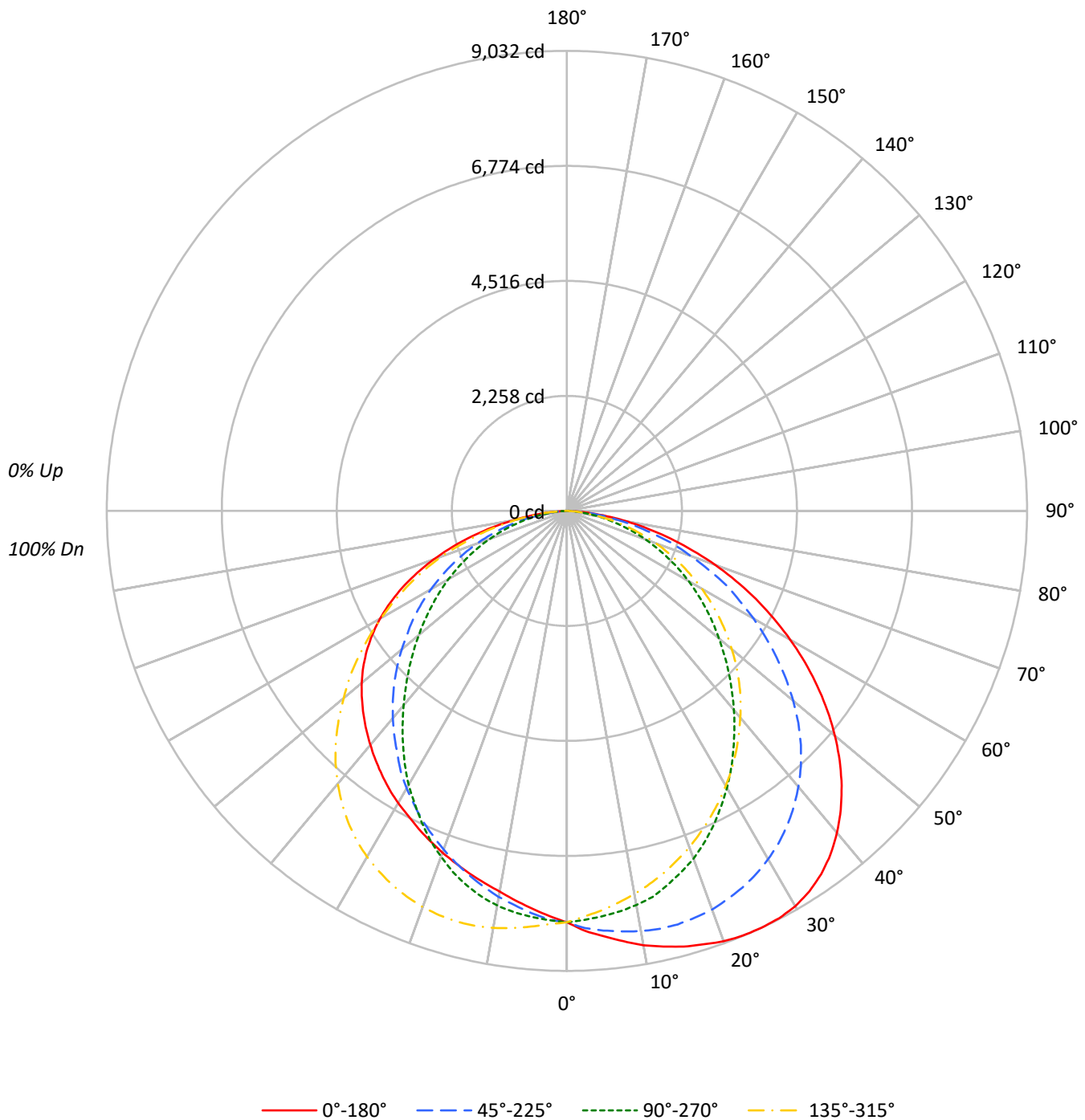
Lumens per Lamp: N/A
Luminaire Lumens: 23695.4 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 220
Input Voltage (V): 120
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



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84		
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70		
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	59		
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38		
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33		
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10867	10867	10867	10867
5°	11326	10789	10585	10807
10°	11830	10733	10370	10749
15°	12337	10597	10269	10599
20°	12875	10404	10224	10345
25°	13408	10114	10223	10010
30°	13927	9762	10291	9653
35°	14296	9361	10394	9212
40°	14487	8958	10539	8756
45°	14515	8550	10744	8335
50°	14378	8159	11006	7942
55°	14080	7796	11252	7579
60°	13638	7417	11402	7224
65°	13028	6982	11342	6820
70°	12170	6470	10939	6352
75°	10950	5769	10039	5739
80°	9284	4832	8437	4905
85°	6456	3199	5351	3287

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	766.8	3.2
10°-20°	2220.5	9.4
20°-30°	3403.0	14.4
30°-40°	4137.9	17.5
40°-50°	4301.5	18.2
50°-60°	3885.6	16.4
60°-70°	2954.1	12.5
70°-80°	1646.9	7.0
80°-90°	379.2	1.6
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°	6390.3	27.0
0°-40°	10528.2	44.4
0°-60°	18715.4	79.0
0°-90°	23695.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23695.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	8076	8076	8076	8076	8076	
5°	8386	7988	7837	8001	8386	809
15°	8856	7607	7372	7609	8856	2511
25°	9032	6812	6886	6743	9032	4172
35°	8704	5699	6328	5608	8704	5436
45°	7628	4493	5646	4380	7628	5873
55°	6002	3323	4797	3231	6002	5358
65°	4092	2193	3563	2142	4092	4044
75°	2106	1110	1931	1104	2106	2237
85°	418	207	347	213	418	527
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8076.5	8076.5	8076.5	8076.5	8076.5	8076.5	8076.5	8076.5	8076.5	8076.5	8076.5
2.5°	8255.5	8134.9	8136.8	8242.3	8161.3	8200.9	8087.8	8131.2	8118.0	8127.4	8035.1
5°	8385.5	8255.5	8253.6	8344.1	8253.6	8270.6	8127.4	8155.7	8114.2	8087.8	7988.0
7.5°	8523.0	8393.0	8379.9	8459.0	8340.3	8327.1	8168.9	8168.9	8093.5	8027.6	7933.4
10°	8658.7	8524.9	8508.0	8568.3	8421.3	8378.0	8185.8	8155.7	8055.8	7957.8	7856.1
12.5°	8760.4	8624.8	8611.6	8649.3	8483.5	8404.3	8185.8	8127.4	7980.5	7842.9	7763.8
15°	8856.5	8717.1	8681.3	8700.1	8509.8	8404.3	8159.4	8069.0	7880.6	7699.7	7607.4
17.5°	8924.3	8790.6	8754.8	8752.9	8523.0	8372.3	8102.9	7978.6	7752.5	7534.0	7441.6
20°	8992.1	8858.4	8813.2	8779.3	8519.3	8329.0	8020.0	7852.3	7588.6	7343.7	7266.4
22.5°	9026.1	8888.5	8839.5	8788.7	8494.8	8249.9	7918.3	7705.4	7404.0	7111.9	7047.9
25°	9031.7	8890.4	8837.7	8764.2	8445.8	8155.7	7786.4	7528.3	7191.1	6867.0	6812.4
27.5°	9016.6	8862.1	8809.4	8720.9	8372.3	8040.7	7630.0	7326.7	6965.0	6607.0	6548.6
30°	8963.9	8807.5	8756.6	8641.7	8268.7	7899.4	7458.6	7102.5	6714.4	6333.9	6283.0
32.5°	8858.4	8705.8	8664.3	8549.4	8155.7	7735.5	7258.9	6861.4	6437.5	6073.9	5998.5
35°	8703.9	8551.3	8524.9	8404.3	7997.4	7539.6	7040.4	6597.6	6143.6	5772.5	5699.0
37.5°	8502.3	8374.2	8334.6	8216.0	7810.9	7317.3	6789.8	6311.3	5844.0	5444.6	5399.4
40°	8248.0	8127.4	8097.3	7991.8	7594.2	7070.5	6518.5	6015.5	5535.1	5163.9	5099.9
42.5°	7957.8	7844.8	7827.9	7718.6	7326.7	6797.3	6224.6	5708.4	5212.9	4855.0	4790.9
45°	7628.2	7518.9	7515.1	7411.5	7034.7	6494.0	5915.6	5397.5	4898.3	4527.2	4493.2
47.5°	7264.6	7166.6	7166.6	7070.5	6708.8	6160.5	5597.2	5073.5	4581.8	4254.0	4193.7
50°	6868.9	6776.6	6748.3	6701.2	6348.9	5796.9	5261.9	4757.0	4269.1	3956.3	3897.9
52.5°	6446.9	6367.8	6386.6	6300.0	5959.0	5418.3	4922.8	4400.9	3954.4	3670.0	3611.6
55°	6002.3	5889.3	5906.2	5874.2	5552.0	5028.3	4542.2	4107.0	3645.5	3377.9	3323.3
57.5°	5540.7	5393.8	5454.1	5435.2	5118.7	4628.9	4193.7	3773.6	3338.4	3091.6	3038.8
60°	5067.9	4926.6	4988.7	4971.8	4674.1	4229.5	3833.9	3443.9	3033.2	2809.0	2756.2
62.5°	4581.8	4451.8	4508.3	4495.1	4222.0	3820.7	3475.9	3118.0	2726.1	2524.5	2475.5
65°	4092.0	3967.6	4018.5	4009.1	3756.6	3451.4	3108.5	2780.7	2417.1	2241.9	2192.9
67.5°	3590.8	3475.9	3523.0	3523.0	3291.3	2999.3	2739.3	2439.7	2113.8	1963.1	1917.9
70°	3093.5	2986.1	3027.5	3023.8	2827.8	2590.4	2366.3	2098.7	1806.7	1682.4	1644.7
72.5°	2592.3	2498.1	2535.8	2532.0	2368.1	2215.5	1993.2	1761.5	1507.2	1407.3	1373.4
75°	2106.3	2017.7	2053.5	2049.7	1916.0	1772.8	1624.0	1431.8	1213.3	1143.6	1109.7
77.5°	1642.8	1552.4	1582.5	1582.5	1484.6	1380.9	1262.3	1113.4	958.9	883.6	859.1
80°	1198.2	1154.9	1139.8	1141.7	1075.7	1007.9	947.6	804.5	691.4	640.5	623.6
82.5°	787.5	751.7	736.6	740.4	702.7	661.3	623.6	523.7	448.4	418.2	408.8
85°	418.2	391.9	378.7	388.1	380.6	358.0	339.1	271.3	224.2	212.9	207.2
87.5°	131.9	114.9	105.5	139.4	118.7	105.5	101.7	81.0	62.2	62.2	60.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	8076.5	8076.5	8076.5	8076.5	8076.5	8076.5	8076.5	8076.5	8076.5	8076.5	8076.5
2.5°	8065.2	8065.2	7991.8	7974.8	7967.3	7976.7	7903.2	7890.0	7995.5	7959.7	7878.7
5°	8001.2	7997.4	7893.8	7875.0	7875.0	7863.6	7780.8	7761.9	7867.4	7837.3	7748.7
7.5°	7922.1	7910.7	7788.3	7775.1	7756.3	7748.7	7656.4	7643.2	7733.7	7714.8	7631.9
10°	7826.0	7814.7	7669.6	7660.2	7639.5	7624.4	7537.7	7528.3	7620.6	7590.5	7524.5
12.5°	7699.7	7679.0	7530.2	7520.8	7503.8	7498.2	7413.4	7409.6	7511.3	7481.2	7411.5
15°	7534.0	7517.0	7351.2	7355.0	7356.9	7356.9	7289.0	7285.3	7385.1	7371.9	7296.6
17.5°	7351.2	7328.6	7170.4	7181.7	7194.8	7209.9	7157.2	7166.6	7272.1	7255.1	7187.3
20°	7144.0	7121.4	6966.9	6998.9	7027.2	7057.3	7023.4	7049.8	7147.7	7140.2	7089.3
22.5°	6912.2	6889.6	6746.5	6795.4	6842.5	6899.1	6884.0	6914.1	7017.8	7015.9	6970.7
25°	6629.7	6635.3	6509.1	6569.4	6648.5	6727.6	6733.3	6782.3	6897.2	6885.9	6844.4
27.5°	6365.9	6373.4	6239.7	6341.4	6446.9	6548.6	6573.1	6641.0	6757.8	6748.3	6712.6
30°	6089.0	6098.4	5968.4	6107.8	6235.9	6360.2	6413.0	6505.3	6624.0	6624.0	6586.3
32.5°	5800.7	5817.7	5682.0	5868.5	6017.4	6162.4	6254.7	6350.8	6486.5	6482.7	6450.7
35°	5504.9	5523.8	5399.4	5636.8	5785.6	5962.7	6077.7	6205.8	6326.3	6328.2	6303.7
37.5°	5203.5	5226.1	5113.1	5373.1	5542.6	5751.7	5898.7	6026.8	6160.5	6168.1	6145.5
40°	4903.9	4928.4	4830.5	5081.0	5295.8	5529.4	5699.0	5849.7	5996.6	6000.4	5985.3
42.5°	4604.4	4630.8	4557.3	4802.2	5045.2	5295.8	5495.5	5667.0	5817.7	5827.1	5810.1
45°	4312.4	4335.0	4282.2	4549.8	4783.4	5056.5	5286.4	5480.4	5633.0	5646.2	5640.6
47.5°	4022.3	4043.0	3995.9	4240.8	4510.2	4800.3	5066.0	5280.7	5442.8	5457.8	5454.1
50°	3737.8	3754.7	3703.9	3960.1	4227.6	4536.6	4813.5	5062.2	5243.1	5258.1	5256.2
52.5°	3455.2	3472.1	3428.8	3698.2	3941.2	4267.2	4568.6	4838.0	5017.0	5039.6	5043.4
55°	3182.0	3189.5	3155.6	3413.7	3649.2	3990.2	4336.9	4598.7	4777.7	4796.6	4807.9
57.5°	2908.8	2910.7	2882.5	3129.3	3355.3	3703.9	4067.5	4342.5	4512.1	4530.9	4547.9
60°	2637.5	2635.7	2603.6	2842.9	3059.6	3404.3	3783.0	4056.2	4220.1	4237.0	4259.6
62.5°	2368.1	2362.5	2334.2	2554.6	2758.1	3099.1	3479.7	3743.4	3899.8	3911.1	3941.2
65°	2100.6	2095.0	2068.6	2272.1	2456.7	2782.6	3155.6	3406.2	3547.5	3562.6	3556.9
67.5°	1836.9	1825.6	1804.8	1987.6	2155.3	2456.7	2814.6	3053.9	3170.7	3183.9	3219.7
70°	1573.1	1559.9	1512.8	1706.9	1853.8	2123.2	2456.7	2669.6	2767.5	2780.7	2775.1
72.5°	1313.1	1299.9	1249.1	1428.0	1552.4	1787.9	2085.5	2262.6	2347.4	2358.7	2358.7
75°	1060.7	1053.1	1021.1	1156.8	1260.4	1452.5	1705.0	1851.9	1917.9	1931.1	1927.3
77.5°	817.6	812.0	780.0	896.8	977.8	1121.0	1324.4	1439.3	1488.3	1503.4	1535.4
80°	585.9	584.0	533.2	648.1	683.9	804.5	953.3	1041.8	1068.2	1088.9	1111.5
82.5°	374.9	376.8	325.9	423.9	439.0	516.2	608.5	663.2	682.0	698.9	715.9
85°	182.7	190.3	162.0	224.2	226.1	265.6	305.2	325.9	333.5	346.6	361.7
87.5°	47.1	54.6	30.1	64.1	56.5	73.5	84.8	90.4	88.5	98.0	103.6
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	8076.5	8076.5	8076.5	8076.5	8076.5	8076.5	8076.5	8076.5	8076.5	8076.5	8076.5
2.5°	7905.1	7965.4	7935.2	8033.2	8070.9	8010.6	8116.1	8118.0	8042.6	8131.2	8180.2
5°	7782.6	7844.8	7826.0	7927.7	7974.8	7922.1	8050.2	8074.7	8001.2	8101.0	8180.2
7.5°	7658.3	7731.8	7707.3	7810.9	7867.4	7826.0	7963.5	8003.1	7946.5	8055.8	8161.3
10°	7550.9	7613.1	7586.7	7696.0	7745.0	7711.0	7846.7	7920.2	7867.4	8001.2	8127.4
12.5°	7445.4	7496.3	7466.1	7556.6	7603.7	7560.3	7726.1	7793.9	7756.3	7895.7	8057.7
15°	7309.8	7366.3	7324.8	7405.8	7441.6	7404.0	7539.6	7656.4	7609.3	7761.9	7940.9
17.5°	7206.1	7238.2	7181.7	7245.7	7266.4	7215.6	7353.1	7468.0	7434.1	7599.9	7807.1
20°	7091.2	7117.6	7038.5	7074.3	7072.4	7008.3	7134.6	7247.6	7225.0	7407.7	7643.2
22.5°	6963.1	6976.3	6884.0	6891.5	6887.8	6782.3	6895.3	7010.2	7000.8	7185.4	7449.2
25°	6827.5	6829.4	6710.7	6706.9	6665.5	6541.1	6641.0	6771.0	6742.7	6942.4	7219.3
27.5°	6693.7	6674.9	6531.7	6497.8	6431.8	6283.0	6371.6	6488.4	6471.4	6667.3	6974.4
30°	6550.5	6526.0	6350.8	6288.7	6192.6	6021.1	6094.6	6203.9	6213.3	6384.7	6706.9
32.5°	6414.9	6352.7	6158.7	6068.2	5947.7	5748.0	5787.5	5898.7	5913.8	6087.1	6418.7
35°	6239.7	6198.2	5959.0	5804.5	5685.8	5467.3	5508.7	5585.9	5608.5	5778.1	6115.3
37.5°	6073.9	6007.9	5753.6	5565.2	5412.6	5182.8	5194.1	5273.2	5295.8	5467.3	5800.7
40°	5902.4	5808.2	5535.1	5314.7	5139.4	4898.3	4885.1	4968.0	4985.0	5152.6	5454.1
42.5°	5719.7	5606.7	5299.6	5058.4	4856.8	4611.9	4585.6	4657.1	4676.0	4839.9	5135.7
45°	5535.1	5399.4	5058.4	4794.7	4574.3	4323.7	4297.3	4351.9	4380.2	4534.7	4819.2
47.5°	5339.1	5180.9	4809.8	4515.9	4287.9	4037.3	4005.3	4059.9	4082.5	4235.1	4504.5
50°	5133.8	4941.6	4553.5	4229.5	4003.4	3756.6	3709.5	3773.6	3794.3	3937.5	4201.2
52.5°	4907.7	4694.8	4280.4	3941.2	3715.2	3479.7	3423.2	3485.3	3509.8	3649.2	3892.3
55°	4668.5	4438.6	4005.3	3675.6	3430.7	3200.8	3153.7	3178.2	3231.0	3362.9	3588.9
57.5°	4399.0	4171.1	3715.2	3379.8	3144.3	2923.9	2884.3	2907.0	2955.9	3084.0	3287.5
60°	4112.7	3871.5	3419.4	3084.0	2856.1	2647.0	2611.2	2631.9	2684.6	2801.4	2989.8
62.5°	3830.1	3558.8	3114.2	2780.7	2573.5	2379.4	2370.0	2362.5	2411.5	2524.5	2690.3
65°	3487.2	3227.2	2795.8	2479.3	2290.9	2115.7	2078.0	2095.0	2142.1	2245.7	2419.0
67.5°	3119.8	2884.3	2469.9	2177.9	2010.2	1853.8	1821.8	1829.3	1878.3	1968.7	2119.5
70°	2729.9	2522.6	2136.4	1874.5	1733.2	1586.3	1565.6	1567.5	1614.6	1693.7	1825.6
72.5°	2321.0	2134.5	1799.2	1575.0	1458.2	1352.7	1333.8	1311.2	1354.6	1422.4	1535.4
75°	1904.7	1740.8	1463.8	1281.1	1188.8	1100.2	1083.3	1060.7	1104.0	1162.4	1250.9
77.5°	1484.6	1352.7	1137.9	996.6	925.0	859.1	844.0	819.5	862.9	906.2	975.9
80°	1073.9	977.8	849.7	700.8	676.3	633.0	617.9	591.6	633.0	661.3	714.0
82.5°	693.3	629.2	555.8	452.2	448.4	416.4	408.8	378.7	416.4	433.3	472.9
85°	350.4	320.3	301.4	229.8	237.4	216.7	214.8	182.7	212.9	220.4	243.0
87.5°	99.8	105.5	94.2	56.5	71.6	67.8	67.8	49.0	67.8	67.8	77.2
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: P838123

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-5HI-40-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	8076.5	8076.5	8076.5	8076.5	8076.5	8076.5	8076.5	8076.5
2.5°	8084.1	8116.1	8123.6	8121.8	8142.5	8255.5	8217.8	8255.5
5°	8102.9	8174.5	8193.3	8219.7	8253.6	8381.7	8340.3	8385.5
7.5°	8114.2	8221.6	8263.0	8313.9	8368.6	8511.7	8477.8	8523.0
10°	8114.2	8253.6	8313.9	8398.7	8472.2	8638.0	8605.9	8658.7
12.5°	8080.3	8259.3	8344.1	8462.7	8556.9	8735.9	8722.7	8760.4
15°	8010.6	8231.0	8347.8	8500.4	8617.2	8816.9	8811.3	8856.5
17.5°	7916.4	8182.0	8323.3	8515.5	8662.4	8886.6	8899.8	8924.3
20°	7797.7	8089.7	8274.4	8509.8	8694.5	8941.3	8958.2	8992.1
22.5°	7641.3	7978.6	8200.9	8485.4	8698.2	8963.9	8994.0	9026.1
25°	7456.7	7844.8	8104.8	8438.3	8679.4	8962.0	9003.4	9031.7
27.5°	7245.7	7671.5	7982.3	8362.9	8626.7	8931.9	8982.7	9016.6
30°	7000.8	7486.9	7842.9	8264.9	8555.1	8875.3	8930.0	8963.9
32.5°	6748.3	7283.4	7677.1	8138.7	8451.4	8784.9	8832.0	8858.4
35°	6473.3	7036.6	7477.4	7976.7	8317.7	8639.8	8675.6	8703.9
37.5°	6173.7	6769.1	7249.5	7793.9	8129.3	8438.3	8470.3	8502.3
40°	5864.8	6488.4	6993.3	7569.8	7905.1	8191.5	8225.4	8248.0
42.5°	5553.9	6177.5	6720.1	7306.0	7639.5	7914.5	7935.2	7957.8
45°	5239.3	5855.3	6413.0	7014.0	7343.7	7601.8	7609.3	7628.2
47.5°	4919.0	5521.9	6075.8	6680.5	7006.4	7241.9	7249.5	7264.6
50°	4596.9	5188.4	5715.9	6320.7	6639.1	6887.8	6853.8	6868.9
52.5°	4280.4	4838.0	5376.8	5932.6	6247.2	6467.6	6477.1	6446.9
55°	3969.5	4495.1	4990.6	5525.7	5825.2	5996.6	5991.0	6002.3
57.5°	3654.9	4148.5	4602.5	5092.3	5384.4	5546.4	5580.3	5540.7
60°	3334.6	3798.1	4205.0	4647.7	4930.3	5066.0	5105.5	5067.9
62.5°	3016.2	3442.0	3811.3	4197.5	4459.3	4627.0	4623.2	4581.8
65°	2697.8	3084.0	3413.7	3741.5	3969.5	4137.2	4129.6	4092.0
67.5°	2403.9	2722.3	3018.1	3283.7	3481.6	3596.5	3636.0	3590.8
70°	2079.9	2355.0	2614.9	2827.8	2991.7	3095.3	3133.0	3093.5
72.5°	1755.9	1989.5	2172.2	2377.6	2503.8	2590.4	2630.0	2592.3
75°	1435.6	1627.7	1776.6	1936.7	2025.3	2098.7	2143.9	2106.3
77.5°	1124.7	1273.6	1392.2	1509.1	1610.8	1627.7	1667.3	1642.8
80°	828.9	936.3	1023.0	1100.2	1173.7	1181.2	1213.3	1198.2
82.5°	552.0	623.6	646.2	727.2	774.3	766.8	798.8	787.5
85°	292.0	335.3	374.9	399.4	425.8	401.3	429.5	418.2
87.5°	98.0	103.6	90.4	128.1	141.3	120.6	137.5	131.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)