

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: P837802

Luminaire Tested: **ORLG-12-4-INS-ASY2R-LD4-3HI-35-120-EDD-90**

Issue Date: 5/21/2024

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

**Test Information**

Test Method: LM-79-08
Report Number: P837802
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-ASY2R-LD4-3HI-35-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

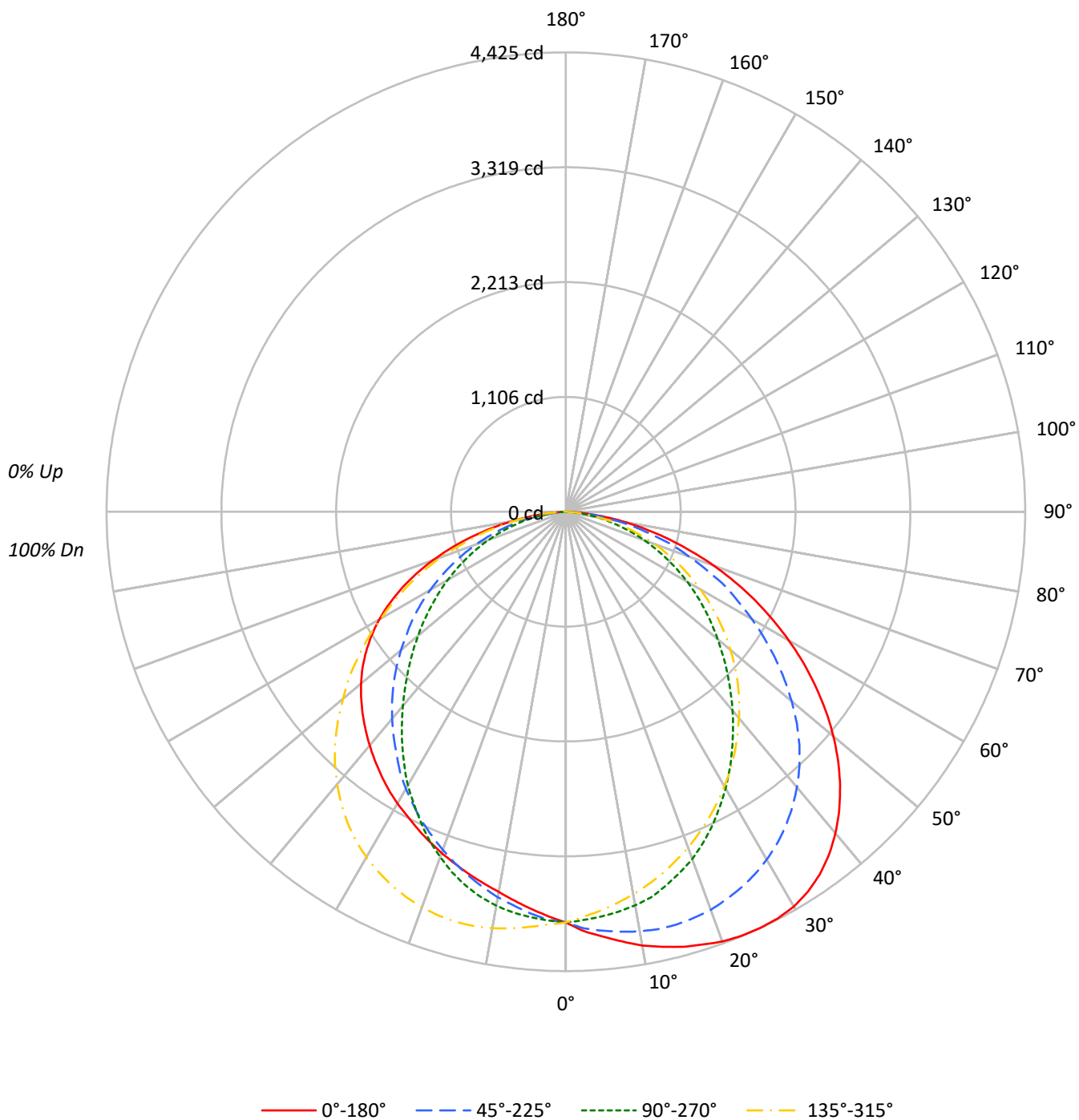
Lumens per Lamp: N/A
Luminaire Lumens: 11608.2 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 132
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



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10647	10647	10647	10647
5°	11097	10571	10371	10588
10°	11591	10517	10161	10532
15°	12087	10383	10061	10385
20°	12615	10194	10017	10136
25°	13137	9909	10016	9808
30°	13645	9564	10083	9458
35°	14008	9172	10184	9026
40°	14194	8776	10326	8579
45°	14222	8377	10526	8166
50°	14087	7994	10784	7782
55°	13796	7638	11024	7426
60°	13362	7267	11171	7078
65°	12764	6840	11113	6682
70°	11924	6339	10718	6224
75°	10728	5652	9836	5623
80°	9097	4734	8268	4806
85°	6326	3134	5243	3220



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.7	3.2
10°-20°	1087.8	9.4
20°-30°	1667.1	14.4
30°-40°	2027.1	17.5
40°-50°	2107.3	18.2
50°-60°	1903.5	16.4
60°-70°	1447.2	12.5
70°-80°	806.8	7.0
80°-90°	185.8	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°	3130.6	27.0
0°-40°	5157.7	44.4
0°-60°	9168.5	79.0
0°-90°	11608.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11608.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3957	3957	3957	3957	3957	
5°	4108	3913	3839	3920	4108	396
15°	4339	3727	3612	3728	4339	1230
25°	4425	3337	3373	3303	4425	2044
35°	4264	2792	3100	2748	4264	2663
45°	3737	2201	2766	2146	3737	2877
55°	2940	1628	2350	1583	2940	2625
65°	2005	1074	1745	1049	2005	1981
75°	1032	544	946	541	1032	1096
85°	205	102	170	104	205	258
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°	3956.6	3956.6	3956.6	3956.6	3956.6	3956.6	3956.6	3956.6	3956.6	3956.6	3956.6
2.5°	4044.3	3985.2	3986.2	4037.9	3998.2	4017.5	3962.2	3983.4	3976.9	3981.6	3936.3
5°	4108.0	4044.3	4043.4	4087.7	4043.4	4051.7	3981.6	3995.4	3975.1	3962.2	3913.3
7.5°	4175.4	4111.7	4105.2	4144.0	4085.8	4079.4	4001.9	4001.9	3964.9	3932.6	3886.5
10°	4241.8	4176.3	4168.0	4197.5	4125.5	4104.3	4010.2	3995.4	3946.5	3898.5	3848.7
12.5°	4291.7	4225.2	4218.8	4237.2	4156.0	4117.2	4010.2	3981.6	3909.6	3842.2	3803.4
15°	4338.7	4270.4	4252.9	4262.1	4168.9	4117.2	3997.2	3952.9	3860.7	3772.0	3726.8
17.5°	4372.0	4306.4	4288.9	4288.0	4175.4	4101.5	3969.6	3908.6	3797.9	3690.8	3645.6
20°	4405.2	4339.7	4317.5	4300.9	4173.5	4080.3	3928.9	3846.8	3717.6	3597.6	3559.8
22.5°	4421.8	4354.4	4330.4	4305.5	4161.5	4041.5	3879.1	3774.8	3627.1	3484.1	3452.7
25°	4424.6	4355.3	4329.5	4293.5	4137.5	3995.4	3814.5	3688.1	3522.9	3364.1	3337.3
27.5°	4417.2	4341.5	4315.7	4272.3	4101.5	3939.1	3737.9	3589.3	3412.1	3236.7	3208.1
30°	4391.3	4314.7	4289.8	4233.5	4050.8	3869.9	3653.9	3479.5	3289.4	3102.9	3078.0
32.5°	4339.7	4264.9	4244.6	4188.3	3995.4	3789.6	3556.1	3361.3	3153.7	2975.6	2938.6
35°	4264.0	4189.2	4176.3	4117.2	3917.9	3693.6	3449.0	3232.1	3009.7	2827.9	2791.9
37.5°	4165.2	4102.5	4083.1	4024.9	3826.5	3584.7	3326.3	3091.8	2863.0	2667.3	2645.1
40°	4040.6	3981.6	3966.8	3915.1	3720.4	3463.8	3193.4	2946.9	2711.6	2529.8	2498.4
42.5°	3898.5	3843.1	3834.8	3781.3	3589.3	3330.0	3049.4	2796.5	2553.8	2378.4	2347.0
45°	3737.0	3683.4	3681.6	3630.8	3446.3	3181.4	2898.0	2644.2	2399.6	2217.8	2201.2
47.5°	3558.8	3510.9	3510.9	3463.8	3286.6	3018.0	2742.0	2485.5	2244.6	2084.0	2054.5
50°	3365.0	3319.8	3306.0	3282.9	3110.3	2839.9	2577.8	2330.4	2091.4	1938.2	1909.6
52.5°	3158.3	3119.5	3128.8	3086.3	2919.3	2654.4	2411.6	2156.0	1937.2	1797.9	1769.3
55°	2940.5	2885.1	2893.4	2877.7	2719.9	2463.3	2225.2	2012.0	1785.9	1654.8	1628.1
57.5°	2714.4	2642.4	2671.9	2662.7	2507.6	2267.7	2054.5	1848.6	1635.4	1514.5	1488.7
60°	2482.7	2413.5	2443.9	2435.6	2289.8	2072.0	1878.2	1687.1	1485.9	1376.1	1350.3
62.5°	2244.6	2180.9	2208.6	2202.1	2068.3	1871.7	1702.8	1527.5	1335.5	1236.7	1212.7
65°	2004.6	1943.7	1968.6	1964.0	1840.3	1690.8	1522.8	1362.3	1184.1	1098.3	1074.3
67.5°	1759.1	1702.8	1725.9	1725.9	1612.4	1469.3	1342.0	1195.2	1035.5	961.7	939.6
70°	1515.5	1462.9	1483.2	1481.3	1385.3	1269.0	1159.2	1028.2	885.1	824.2	805.7
72.5°	1270.0	1223.8	1242.3	1240.4	1160.1	1085.4	976.5	862.9	738.4	689.4	672.8
75°	1031.8	988.5	1006.0	1004.2	938.6	868.5	795.6	701.4	594.4	560.2	543.6
77.5°	804.8	760.5	775.3	775.3	727.3	676.5	618.4	545.5	469.8	432.9	420.9
80°	587.0	565.8	558.4	559.3	527.0	493.8	464.2	394.1	338.7	313.8	305.5
82.5°	385.8	368.3	360.9	362.7	344.3	324.0	305.5	256.6	219.7	204.9	200.3
85°	204.9	192.0	185.5	190.1	186.4	175.4	166.1	132.9	109.8	104.3	101.5
87.5°	64.6	56.3	51.7	68.3	58.1	51.7	49.8	39.7	30.5	30.5	29.5
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°	3956.6	3956.6	3956.6	3956.6	3956.6	3956.6	3956.6	3956.6	3956.6	3956.6	3956.6
2.5°	3951.1	3951.1	3915.1	3906.8	3903.1	3907.7	3871.7	3865.3	3916.9	3899.4	3859.7
5°	3919.7	3917.9	3867.1	3857.9	3857.9	3852.3	3811.7	3802.5	3854.2	3839.4	3796.0
7.5°	3881.0	3875.4	3815.4	3809.0	3799.7	3796.0	3750.8	3744.4	3788.7	3779.4	3738.8
10°	3833.9	3828.3	3757.3	3752.7	3742.5	3735.1	3692.7	3688.1	3733.3	3718.5	3686.2
12.5°	3772.0	3761.9	3689.0	3684.4	3676.1	3673.3	3631.8	3629.9	3679.8	3665.0	3630.8
15°	3690.8	3682.5	3601.3	3603.2	3604.1	3604.1	3570.8	3569.0	3617.9	3611.5	3574.5
17.5°	3601.3	3590.2	3512.7	3518.2	3524.7	3532.1	3506.2	3510.9	3562.5	3554.2	3521.0
20°	3499.8	3488.7	3413.0	3428.7	3442.6	3457.3	3440.7	3453.6	3501.6	3497.9	3473.0
22.5°	3386.3	3375.2	3305.0	3329.0	3352.1	3379.8	3372.4	3387.2	3437.9	3437.0	3414.9
25°	3247.8	3250.6	3188.8	3218.3	3257.0	3295.8	3298.6	3322.6	3378.9	3373.3	3353.0
27.5°	3118.6	3122.3	3056.8	3106.6	3158.3	3208.1	3220.1	3253.4	3310.6	3306.0	3288.4
30°	2982.9	2987.6	2923.9	2992.2	3054.9	3115.8	3141.7	3186.9	3245.1	3245.1	3226.6
32.5°	2841.7	2850.0	2783.6	2875.0	2947.9	3018.9	3064.2	3111.2	3177.7	3175.8	3160.1
35°	2696.8	2706.1	2645.1	2761.4	2834.3	2921.1	2977.4	3040.2	3099.2	3100.1	3088.2
37.5°	2549.2	2560.2	2504.9	2632.2	2715.3	2817.7	2889.7	2952.5	3018.0	3021.7	3010.6
40°	2402.4	2414.4	2366.4	2489.2	2594.4	2708.8	2791.9	2865.7	2937.7	2939.6	2932.2
42.5°	2255.7	2268.6	2232.6	2352.6	2471.6	2594.4	2692.2	2776.2	2850.0	2854.6	2846.3
45°	2112.6	2123.7	2097.8	2228.9	2343.3	2477.2	2589.8	2684.8	2759.6	2766.0	2763.3
47.5°	1970.5	1980.6	1957.6	2077.5	2209.5	2351.6	2481.8	2587.0	2666.4	2673.8	2671.9
50°	1831.1	1839.4	1814.5	1940.0	2071.1	2222.4	2358.1	2479.9	2568.5	2575.9	2575.0
52.5°	1692.7	1701.0	1679.7	1811.7	1930.8	2090.5	2238.1	2370.1	2457.8	2468.9	2470.7
55°	1558.8	1562.5	1545.9	1672.4	1787.7	1954.8	2124.6	2252.9	2340.6	2349.8	2355.3
57.5°	1425.0	1425.9	1412.1	1533.0	1643.8	1814.5	1992.6	2127.4	2210.4	2219.7	2228.0
60°	1292.1	1291.2	1275.5	1392.7	1498.9	1667.7	1853.3	1987.1	2067.4	2075.7	2086.8
62.5°	1160.1	1157.4	1143.5	1251.5	1351.2	1518.2	1704.7	1833.9	1910.5	1916.0	1930.8
65°	1029.1	1026.3	1013.4	1113.1	1203.5	1363.2	1545.9	1668.7	1737.9	1745.3	1742.5
67.5°	899.9	894.3	884.2	973.7	1055.8	1203.5	1378.9	1496.1	1553.3	1559.8	1577.3
70°	770.7	764.2	741.1	836.2	908.2	1040.2	1203.5	1307.8	1355.8	1362.3	1359.5
72.5°	643.3	636.8	611.9	699.6	760.5	875.9	1021.7	1108.4	1150.0	1155.5	1155.5
75°	519.6	515.9	500.2	566.7	617.4	711.6	835.3	907.2	939.6	946.0	944.2
77.5°	400.6	397.8	382.1	439.3	479.0	549.1	648.8	705.1	729.1	736.5	752.2
80°	287.0	286.1	261.2	317.5	335.0	394.1	467.0	510.4	523.3	533.5	544.5
82.5°	183.7	184.6	159.7	207.7	215.0	252.9	298.1	324.9	334.1	342.4	350.7
85°	89.5	93.2	79.4	109.8	110.8	130.1	149.5	159.7	163.4	169.8	177.2
87.5°	23.1	26.8	14.8	31.4	27.7	36.0	41.5	44.3	43.4	48.0	50.8
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	3956.6	3956.6	3956.6	3956.6	3956.6	3956.6	3956.6	3956.6	3956.6	3956.6	3956.6
2.5°	3872.6	3902.2	3887.4	3935.4	3953.9	3924.3	3976.0	3976.9	3940.0	3983.4	4007.4
5°	3812.7	3843.1	3833.9	3883.7	3906.8	3881.0	3943.7	3955.7	3919.7	3968.6	4007.4
7.5°	3751.7	3787.7	3775.7	3826.5	3854.2	3833.9	3901.3	3920.6	3893.0	3946.5	3998.2
10°	3699.1	3729.6	3716.7	3770.2	3794.2	3777.6	3844.0	3880.0	3854.2	3919.7	3981.6
12.5°	3647.5	3672.4	3657.6	3701.9	3725.0	3703.8	3785.0	3818.2	3799.7	3868.0	3947.4
15°	3581.0	3608.7	3588.4	3628.1	3645.6	3627.1	3693.6	3750.8	3727.7	3802.5	3890.2
17.5°	3530.2	3545.9	3518.2	3549.6	3559.8	3534.9	3602.2	3658.5	3641.9	3723.1	3824.7
20°	3473.9	3486.9	3448.1	3465.6	3464.7	3433.3	3495.2	3550.5	3539.5	3629.0	3744.4
22.5°	3411.2	3417.6	3372.4	3376.1	3374.3	3322.6	3378.0	3434.3	3429.6	3520.1	3649.3
25°	3344.7	3345.7	3287.5	3285.7	3265.4	3204.4	3253.4	3317.0	3303.2	3401.0	3536.7
27.5°	3279.2	3270.0	3199.8	3183.2	3150.9	3078.0	3121.4	3178.6	3170.3	3266.3	3416.7
30°	3209.1	3197.1	3111.2	3080.8	3033.7	2949.7	2985.7	3039.2	3043.9	3127.8	3285.7
32.5°	3142.6	3112.1	3017.1	2972.8	2913.7	2815.9	2835.3	2889.7	2897.1	2982.0	3144.5
35°	3056.8	3036.5	2919.3	2843.6	2785.4	2678.4	2698.7	2736.5	2747.6	2830.7	2995.9
37.5°	2975.6	2943.2	2818.7	2726.4	2651.6	2539.0	2544.5	2583.3	2594.4	2678.4	2841.7
40°	2891.6	2845.4	2711.6	2603.6	2517.8	2399.6	2393.2	2433.8	2442.1	2524.2	2671.9
42.5°	2802.0	2746.7	2596.2	2478.1	2379.3	2259.4	2246.4	2281.5	2290.7	2371.0	2515.9
45°	2711.6	2645.1	2478.1	2348.9	2240.9	2118.1	2105.2	2132.0	2145.8	2221.5	2360.9
47.5°	2615.6	2538.1	2356.3	2212.3	2100.6	1977.9	1962.2	1988.9	2000.0	2074.8	2206.7
50°	2515.0	2420.9	2230.7	2072.0	1961.2	1840.3	1817.3	1848.6	1858.8	1928.9	2058.2
52.5°	2404.3	2300.0	2096.9	1930.8	1820.0	1704.7	1677.0	1707.4	1719.4	1787.7	1906.8
55°	2287.0	2174.4	1962.2	1800.7	1680.7	1568.1	1545.0	1557.0	1582.8	1647.4	1758.2
57.5°	2155.1	2043.4	1820.0	1655.8	1540.4	1432.4	1413.0	1424.1	1448.1	1510.8	1610.5
60°	2014.8	1896.6	1675.1	1510.8	1399.2	1296.7	1279.2	1289.3	1315.2	1372.4	1464.7
62.5°	1876.3	1743.4	1525.6	1362.3	1260.7	1165.7	1161.1	1157.4	1181.4	1236.7	1318.0
65°	1708.4	1581.0	1369.6	1214.6	1122.3	1036.5	1018.0	1026.3	1049.4	1100.1	1185.1
67.5°	1528.4	1413.0	1210.0	1066.9	984.8	908.2	892.5	896.2	920.2	964.5	1038.3
70°	1337.3	1235.8	1046.6	918.3	849.1	777.1	767.0	767.9	791.0	829.7	894.3
72.5°	1137.1	1045.7	881.4	771.6	714.4	662.7	653.4	642.4	663.6	696.8	752.2
75°	933.1	852.8	717.1	627.6	582.4	539.0	530.7	519.6	540.8	569.5	612.8
77.5°	727.3	662.7	557.5	488.2	453.2	420.9	413.5	401.5	422.7	443.9	478.1
80°	526.1	479.0	416.2	343.3	331.3	310.1	302.7	289.8	310.1	324.0	349.8
82.5°	339.6	308.3	272.3	221.5	219.7	204.0	200.3	185.5	204.0	212.3	231.7
85°	171.7	156.9	147.7	112.6	116.3	106.1	105.2	89.5	104.3	108.0	119.1
87.5°	48.9	51.7	46.1	27.7	35.1	33.2	33.2	24.0	33.2	33.2	37.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P837802

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-3HI-35-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3956.6	3956.6	3956.6	3956.6	3956.6	3956.6	3956.6	3956.6
2.5°	3960.3	3976.0	3979.7	3978.8	3988.9	4044.3	4025.9	4044.3
5°	3969.6	4004.6	4013.9	4026.8	4043.4	4106.2	4085.8	4108.0
7.5°	3975.1	4027.7	4048.0	4072.9	4099.7	4169.8	4153.2	4175.4
10°	3975.1	4043.4	4072.9	4114.5	4150.5	4231.7	4216.0	4241.8
12.5°	3958.5	4046.2	4087.7	4145.8	4192.0	4279.7	4273.2	4291.7
15°	3924.3	4032.3	4089.5	4164.3	4221.5	4319.4	4316.6	4338.7
17.5°	3878.2	4008.3	4077.5	4171.7	4243.7	4353.5	4360.0	4372.0
20°	3820.0	3963.1	4053.5	4168.9	4259.4	4380.3	4388.6	4405.2
22.5°	3743.4	3908.6	4017.5	4156.9	4261.2	4391.3	4406.1	4421.8
25°	3653.0	3843.1	3970.5	4133.8	4252.0	4390.4	4410.7	4424.6
27.5°	3549.6	3758.2	3910.5	4096.9	4226.1	4375.6	4400.6	4417.2
30°	3429.6	3667.8	3842.2	4048.9	4191.1	4348.0	4374.7	4391.3
32.5°	3306.0	3568.1	3761.0	3987.1	4140.3	4303.7	4326.7	4339.7
35°	3171.2	3447.2	3663.1	3907.7	4074.8	4232.6	4250.1	4264.0
37.5°	3024.5	3316.1	3551.5	3818.2	3982.5	4133.8	4149.5	4165.2
40°	2873.1	3178.6	3425.9	3708.4	3872.6	4012.9	4029.5	4040.6
42.5°	2720.8	3026.3	3292.1	3579.2	3742.5	3877.3	3887.4	3898.5
45°	2566.7	2868.5	3141.7	3436.1	3597.6	3724.1	3727.7	3737.0
47.5°	2409.8	2705.1	2976.5	3272.7	3432.4	3547.8	3551.5	3558.8
50°	2252.0	2541.8	2800.2	3096.5	3252.4	3374.3	3357.6	3365.0
52.5°	2096.9	2370.1	2634.1	2906.3	3060.5	3168.4	3173.1	3158.3
55°	1944.6	2202.1	2444.9	2707.0	2853.7	2937.7	2934.9	2940.5
57.5°	1790.5	2032.3	2254.7	2494.7	2637.8	2717.1	2733.7	2714.4
60°	1633.6	1860.6	2060.0	2276.9	2415.3	2481.8	2501.2	2482.7
62.5°	1477.6	1686.2	1867.1	2056.3	2184.6	2266.7	2264.9	2244.6
65°	1321.6	1510.8	1672.4	1833.0	1944.6	2026.8	2023.1	2004.6
67.5°	1177.7	1333.6	1478.5	1608.7	1705.6	1761.9	1781.3	1759.1
70°	1018.9	1153.7	1281.0	1385.3	1465.6	1516.4	1534.8	1515.5
72.5°	860.2	974.6	1064.1	1164.7	1226.6	1269.0	1288.4	1270.0
75°	703.3	797.4	870.3	948.8	992.2	1028.2	1050.3	1031.8
77.5°	551.0	623.9	682.1	739.3	789.1	797.4	816.8	804.8
80°	406.1	458.7	501.2	539.0	575.0	578.7	594.4	587.0
82.5°	270.4	305.5	316.6	356.3	379.3	375.6	391.3	385.8
85°	143.1	164.3	183.7	195.7	208.6	196.6	210.4	204.9
87.5°	48.0	50.8	44.3	62.8	69.2	59.1	67.4	64.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)