

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



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: P834422

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-3STD-30-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834422
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-OPL-LD4-3STD-30-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

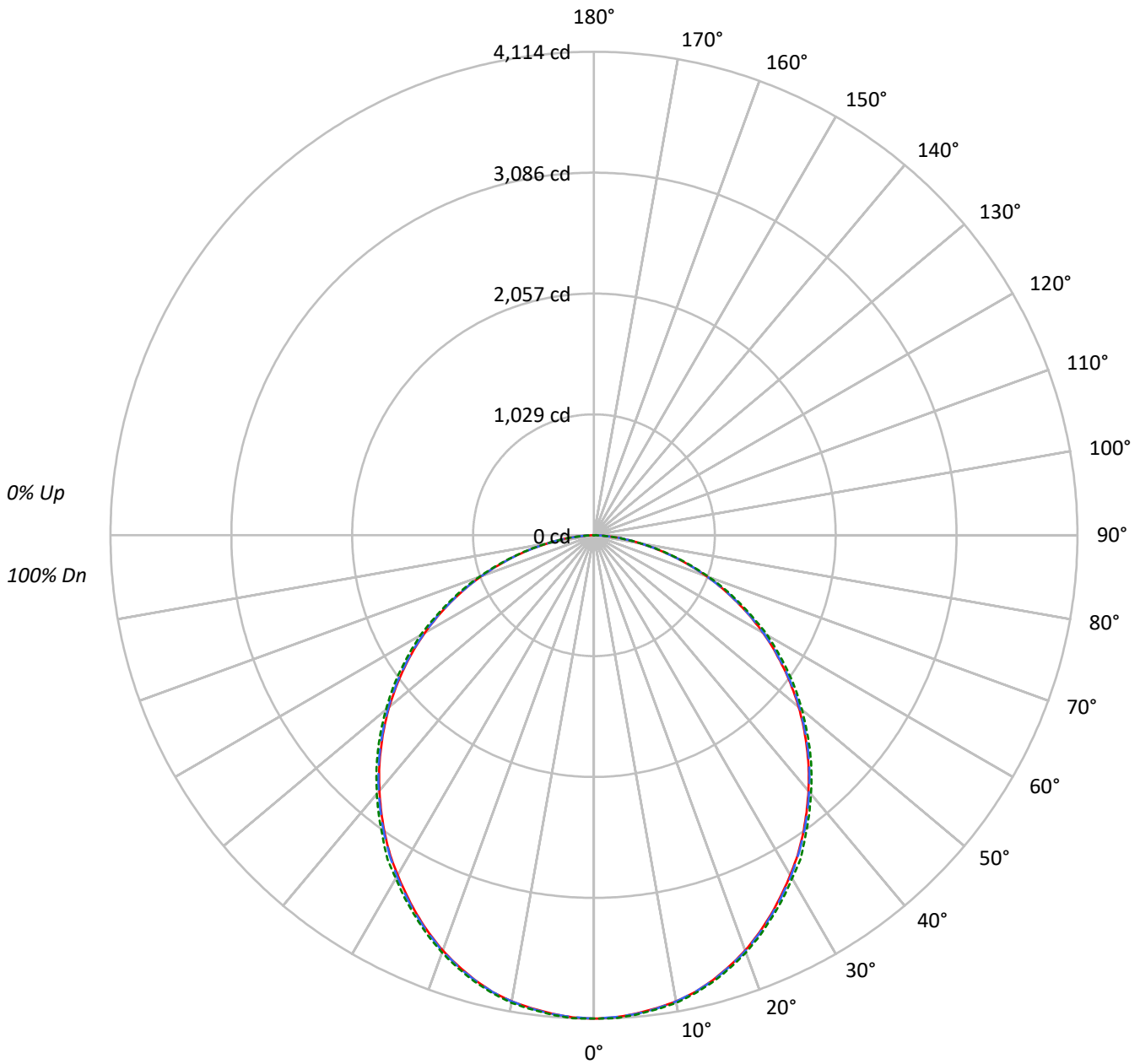
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11113.8 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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: 28.75 FT

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Luminous Intensity Polar Plot



— 0°-180° - - - 45°-225° - · - · - 90°-270°

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	86	86	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	46	46	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	40	40	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	36	36	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11068	11068	11068
5°	11039	11048	11062
10°	11004	11006	11039
15°	10913	10920	10951
20°	10771	10783	10822
25°	10576	10602	10650
30°	10378	10412	10476
35°	10188	10213	10294
40°	9973	10006	10096
45°	9755	9796	9897
50°	9518	9561	9672
55°	9249	9293	9445
60°	8942	8978	9180
65°	8551	8578	8741
70°	8027	8033	8208
75°	7296	7269	7437
80°	6268	6242	6347
85°	4863	4786	4810



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.7	3.5
10°-20°	1105.6	9.9
20°-30°	1645.9	14.8
30°-40°	1946.4	17.5
40°-50°	1987.0	17.9
50°-60°	1773.3	16.0
60°-70°	1335.6	12.0
70°-80°	744.8	6.7
80°-90°	186.6	1.7
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°	3140.1	28.3
0°-40°	5086.5	45.8
0°-60°	8846.7	79.6
0°-90°	11113.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11113.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4113	4113	4113	4113	4113	
5°	4087	4094	4090	4091	4095	388
15°	3917	3921	3920	3923	3931	1104
25°	3562	3566	3571	3580	3587	1641
35°	3101	3098	3109	3121	3134	1939
45°	2563	2562	2574	2587	2601	1977
55°	1971	1969	1981	1994	2013	1762
65°	1343	1338	1347	1359	1373	1328
75°	702	696	699	702	715	744
85°	158	153	155	153	156	189
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4113.0	4113.0	4113.0	4113.0	4113.0
2.5°	4106.2	4113.0	4104.5	4106.2	4113.9
5°	4086.6	4094.3	4090.0	4090.9	4095.1
7.5°	4059.4	4069.6	4063.6	4065.3	4069.6
10°	4027.0	4034.7	4027.8	4032.1	4039.8
12.5°	3981.0	3984.4	3981.0	3982.7	3991.2
15°	3917.1	3921.4	3919.7	3923.1	3930.8
17.5°	3842.2	3847.3	3846.5	3853.3	3859.2
20°	3761.3	3762.2	3765.6	3772.4	3779.2
22.5°	3665.9	3668.5	3671.9	3681.3	3688.1
25°	3562.0	3566.3	3570.6	3579.9	3586.7
27.5°	3452.2	3456.5	3462.4	3472.6	3483.7
30°	3339.8	3339.8	3350.9	3361.1	3371.3
32.5°	3226.5	3222.3	3232.5	3245.3	3270.0
35°	3101.4	3097.9	3109.0	3120.9	3133.7
37.5°	2971.1	2968.5	2981.3	2994.1	3006.0
40°	2839.1	2835.7	2848.4	2861.2	2874.0
42.5°	2703.7	2702.0	2713.9	2726.7	2740.3
45°	2563.2	2562.3	2574.2	2587.0	2600.6
47.5°	2420.1	2418.4	2430.3	2444.0	2455.9
50°	2273.6	2271.9	2283.9	2297.5	2310.3
52.5°	2122.9	2122.9	2134.0	2145.9	2165.5
55°	1971.3	1968.8	1980.7	1994.3	2013.1
57.5°	1818.1	1814.7	1825.7	1839.4	1856.4
60°	1661.4	1658.0	1668.2	1681.8	1705.7
62.5°	1503.0	1497.9	1508.1	1520.9	1535.3
65°	1342.9	1337.8	1347.2	1359.1	1372.7
67.5°	1182.0	1176.0	1185.4	1195.6	1208.4
70°	1020.2	1014.2	1021.0	1031.2	1043.2
72.5°	859.2	853.3	859.2	863.5	878.0
75°	701.7	695.7	699.1	702.5	715.3
77.5°	548.4	542.4	549.3	551.0	558.6
80°	404.5	398.5	402.8	403.6	409.6
82.5°	273.3	268.2	274.2	269.9	275.1
85°	157.5	153.3	155.0	153.3	155.8
87.5°	62.2	58.8	59.6	56.2	56.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)