

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: P834441

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-3HI-40-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834441
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-LD4-3HI-40-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

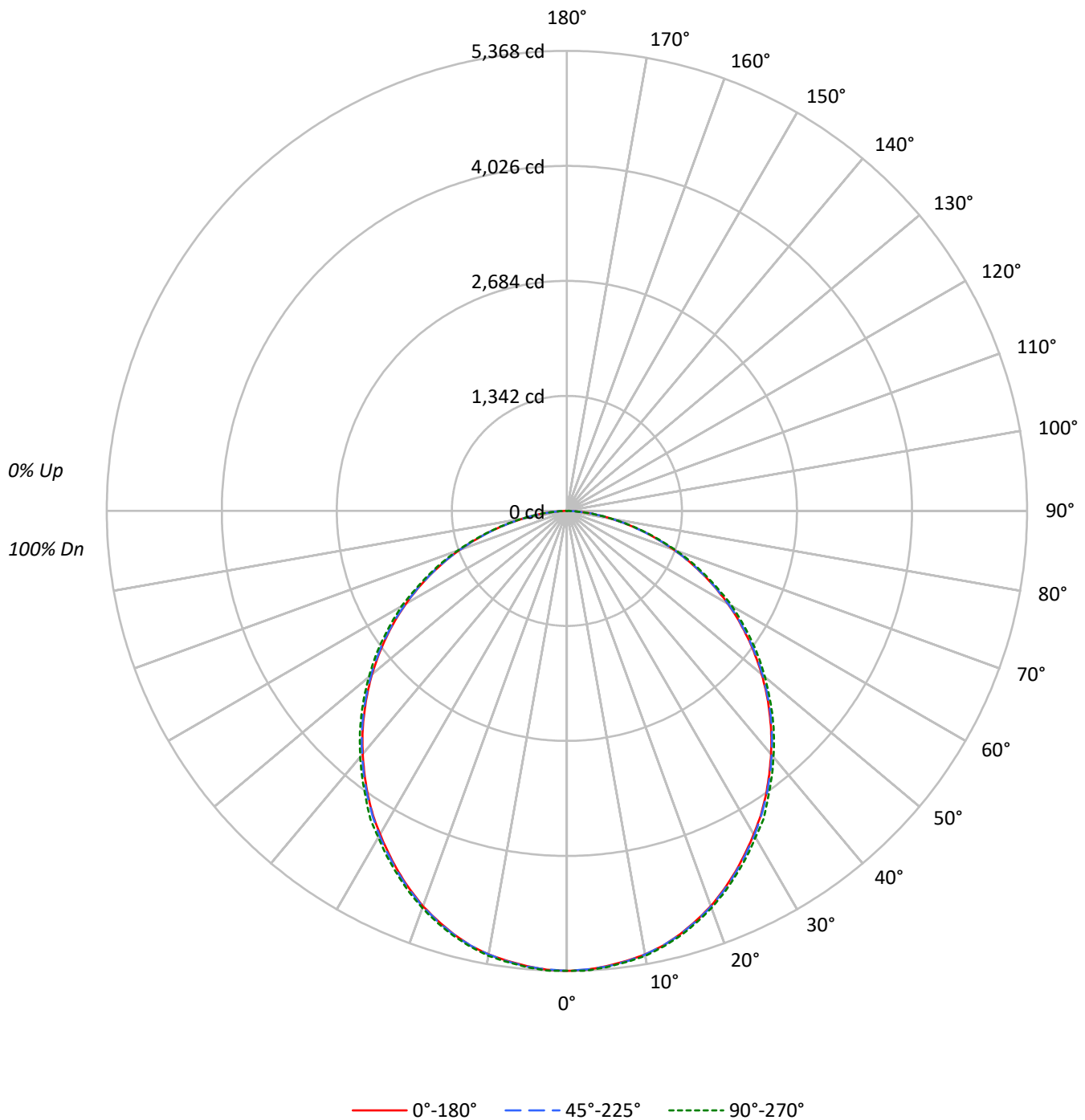
Lumens per Lamp: N/A
Luminaire Lumens: 14501.8 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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: 28.75 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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	95	98	94	92		94	91	89		90
2	99	91	84	78	96	89	83	77	85	80	76		82	78	74		79
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		70
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		56
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51
7	65	52	43	37	64	51	43	37	49	42	36		48	41	36		47
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		43
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		40
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14442	14442	14442
5°	14404	14416	14434
10°	14358	14361	14404
15°	14240	14249	14289
20°	14055	14071	14122
25°	13800	13833	13896
30°	13541	13586	13669
35°	13294	13327	13433
40°	13014	13056	13173
45°	12728	12783	12914
50°	12420	12476	12620
55°	12068	12125	12324
60°	11667	11715	11978
65°	11158	11193	11405
70°	10474	10482	10710
75°	9520	9485	9705
80°	8179	8145	8283
85°	6348	6243	6277

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	507.1	3.5
10°-20°	1442.6	9.9
20°-30°	2147.6	14.8
30°-40°	2539.7	17.5
40°-50°	2592.7	17.9
50°-60°	2313.8	16.0
60°-70°	1742.8	12.0
70°-80°	971.9	6.7
80°-90°	243.5	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°	4097.3	28.3
0°-40°	6637.1	45.8
0°-60°	11543.6	79.6
0°-90°	14501.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14501.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5367	5367	5367	5367	5367	
5°	5332	5342	5337	5338	5344	507
15°	5111	5117	5115	5119	5129	1441
25°	4648	4654	4659	4671	4680	2141
35°	4047	4042	4057	4072	4089	2531
45°	3345	3343	3359	3376	3393	2580
55°	2572	2569	2584	2602	2627	2299
65°	1752	1746	1758	1773	1791	1733
75°	916	908	912	917	933	971
85°	206	200	202	200	203	247
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5366.8	5366.8	5366.8	5366.8	5366.8
2.5°	5358.0	5366.8	5355.7	5358.0	5368.0
5°	5332.4	5342.4	5336.8	5338.0	5343.5
7.5°	5296.8	5310.2	5302.4	5304.6	5310.2
10°	5254.6	5264.6	5255.7	5261.3	5271.3
12.5°	5194.6	5199.1	5194.6	5196.8	5207.9
15°	5111.3	5116.8	5114.6	5119.1	5129.1
17.5°	5013.5	5020.2	5019.1	5027.9	5035.7
20°	4907.9	4909.0	4913.5	4922.4	4931.3
22.5°	4783.5	4786.8	4791.3	4803.5	4812.4
25°	4647.9	4653.5	4659.0	4671.3	4680.2
27.5°	4504.6	4510.1	4517.9	4531.3	4545.7
30°	4357.9	4357.9	4372.4	4385.7	4399.0
32.5°	4210.1	4204.6	4217.9	4234.6	4266.8
35°	4046.8	4042.4	4056.8	4072.4	4089.0
37.5°	3876.8	3873.5	3890.1	3906.8	3922.3
40°	3704.6	3700.1	3716.8	3733.5	3750.1
42.5°	3527.9	3525.7	3541.2	3557.9	3575.7
45°	3344.6	3343.4	3359.0	3375.7	3393.4
47.5°	3157.9	3155.7	3171.2	3189.0	3204.5
50°	2966.8	2964.5	2980.1	2997.9	3014.5
52.5°	2770.1	2770.1	2784.5	2800.1	2825.6
55°	2572.3	2569.0	2584.5	2602.3	2626.8
57.5°	2372.3	2367.9	2382.3	2400.1	2422.3
60°	2167.8	2163.4	2176.7	2194.5	2225.6
62.5°	1961.2	1954.5	1967.8	1984.5	2003.4
65°	1752.3	1745.6	1757.8	1773.4	1791.2
67.5°	1542.3	1534.5	1546.7	1560.1	1576.7
70°	1331.2	1323.4	1332.3	1345.6	1361.2
72.5°	1121.1	1113.4	1121.1	1126.7	1145.6
75°	915.6	907.8	912.3	916.7	933.4
77.5°	715.6	707.8	716.7	718.9	728.9
80°	527.8	520.0	525.6	526.7	534.5
82.5°	356.7	350.0	357.8	352.2	358.9
85°	205.6	200.0	202.2	200.0	203.3
87.5°	81.1	76.7	77.8	73.3	73.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)