

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: P834999

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-3HI-35-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834999
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-4-INS-OPL-LD4-3HI-35-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

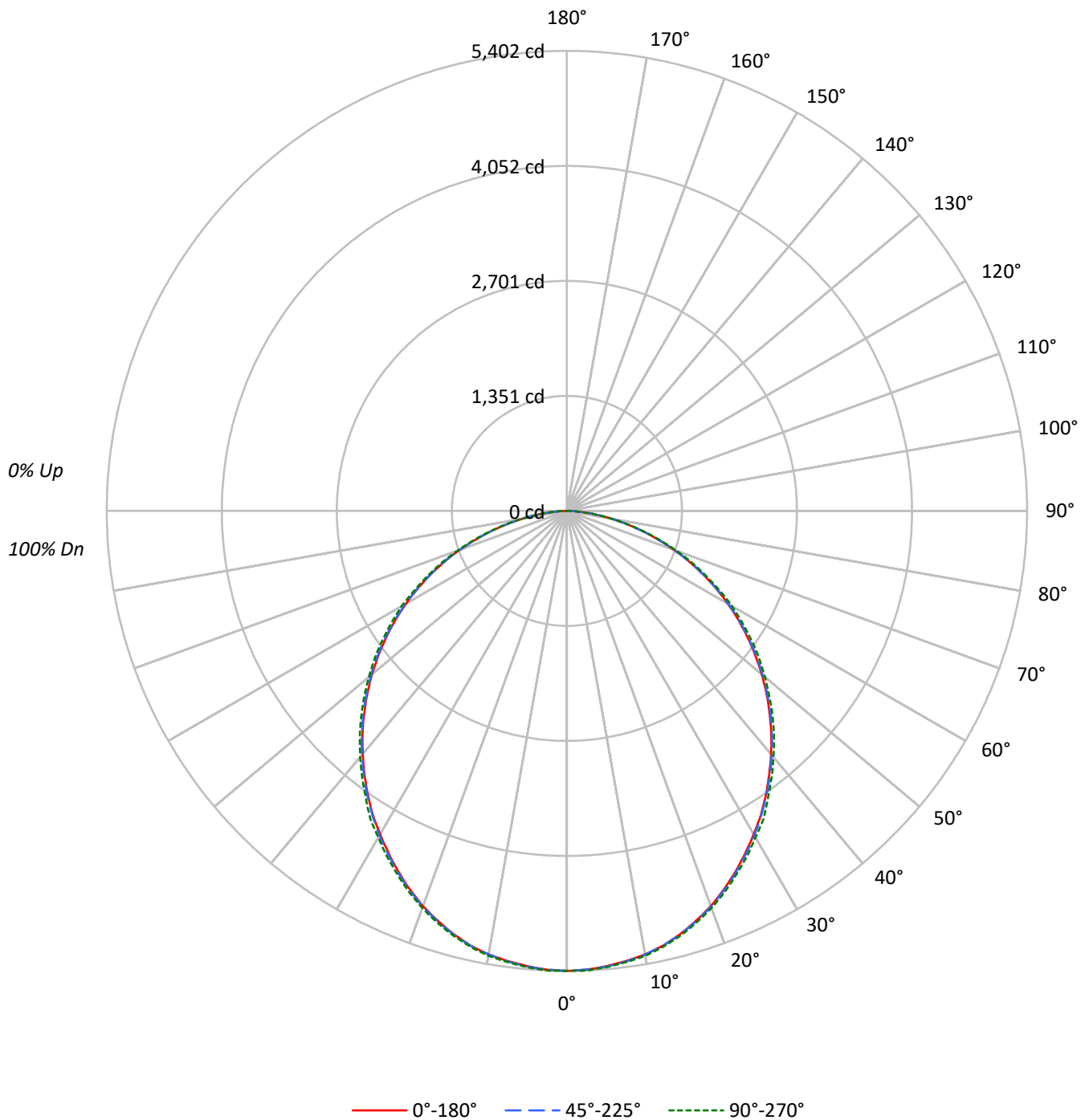
Lumens per Lamp: N/A
Luminaire Lumens: 14594.2 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7267	7267	7267
5°	7248	7254	7263
10°	7225	7226	7248
15°	7165	7170	7190
20°	7072	7080	7106
25°	6944	6961	6992
30°	6814	6836	6878
35°	6689	6706	6759
40°	6548	6570	6629
45°	6405	6432	6498
50°	6250	6278	6350
55°	6073	6101	6201
60°	5871	5895	6027
65°	5614	5632	5739
70°	5270	5275	5389
75°	4790	4773	4883
80°	4116	4098	4168
85°	3194	3142	3159

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.4	3.5
10°-20°	1451.8	9.9
20°-30°	2161.3	14.8
30°-40°	2555.9	17.5
40°-50°	2609.2	17.9
50°-60°	2328.6	16.0
60°-70°	1753.9	12.0
70°-80°	978.1	6.7
80°-90°	245.0	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°	4123.4	28.3
0°-40°	6679.3	45.8
0°-60°	11617.2	79.6
0°-90°	14594.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14594.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5401	5401	5401	5401	5401	
5°	5366	5376	5371	5372	5378	510
15°	5144	5149	5147	5152	5162	1450
25°	4678	4683	4689	4701	4710	2155
35°	4073	4068	4083	4098	4115	2547
45°	3366	3365	3380	3397	3415	2596
55°	2589	2585	2601	2619	2644	2314
65°	1763	1757	1769	1785	1803	1744
75°	921	914	918	922	939	977
85°	207	201	204	201	205	248
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5401.0	5401.0	5401.0	5401.0	5401.0
2.5°	5392.1	5401.0	5389.8	5392.1	5402.1
5°	5366.4	5376.4	5370.8	5372.0	5377.5
7.5°	5330.6	5344.0	5336.2	5338.4	5344.0
10°	5288.1	5298.2	5289.2	5294.8	5304.9
12.5°	5227.7	5232.2	5227.7	5229.9	5241.1
15°	5143.8	5149.4	5147.2	5151.7	5161.7
17.5°	5045.4	5052.1	5051.0	5060.0	5067.8
20°	4939.2	4940.3	4944.8	4953.7	4962.7
22.5°	4814.0	4817.3	4821.8	4834.1	4843.0
25°	4677.5	4683.1	4688.7	4701.0	4710.0
27.5°	4533.3	4538.9	4546.7	4560.1	4574.7
30°	4385.7	4385.7	4400.2	4413.6	4427.1
32.5°	4237.0	4231.4	4244.8	4261.6	4294.0
35°	4072.6	4068.1	4082.6	4098.3	4115.1
37.5°	3901.5	3898.1	3914.9	3931.7	3947.3
40°	3728.2	3723.7	3740.5	3757.2	3774.0
42.5°	3550.4	3548.1	3563.8	3580.6	3598.5
45°	3365.9	3364.7	3380.4	3397.2	3415.1
47.5°	3178.0	3175.8	3191.4	3209.3	3225.0
50°	2985.7	2983.4	2999.1	3017.0	3033.7
52.5°	2787.7	2787.7	2802.3	2817.9	2843.6
55°	2588.7	2585.3	2601.0	2618.9	2643.5
57.5°	2387.4	2382.9	2397.5	2415.4	2437.7
60°	2181.7	2177.2	2190.6	2208.5	2239.8
62.5°	1973.7	1967.0	1980.4	1997.2	2016.2
65°	1763.4	1756.7	1769.0	1784.7	1802.6
67.5°	1552.1	1544.3	1556.6	1570.0	1586.8
70°	1339.6	1331.8	1340.8	1354.2	1369.8
72.5°	1128.3	1120.5	1128.3	1133.9	1152.9
75°	921.4	913.6	918.1	922.5	939.3
77.5°	720.1	712.3	721.3	723.5	733.6
80°	531.2	523.3	528.9	530.0	537.9
82.5°	359.0	352.2	360.1	354.5	361.2
85°	206.9	201.3	203.5	201.3	204.6
87.5°	81.6	77.2	78.3	73.8	73.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)