

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: P834985

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-5LO-30-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834985
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-LD4-5LO-30-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

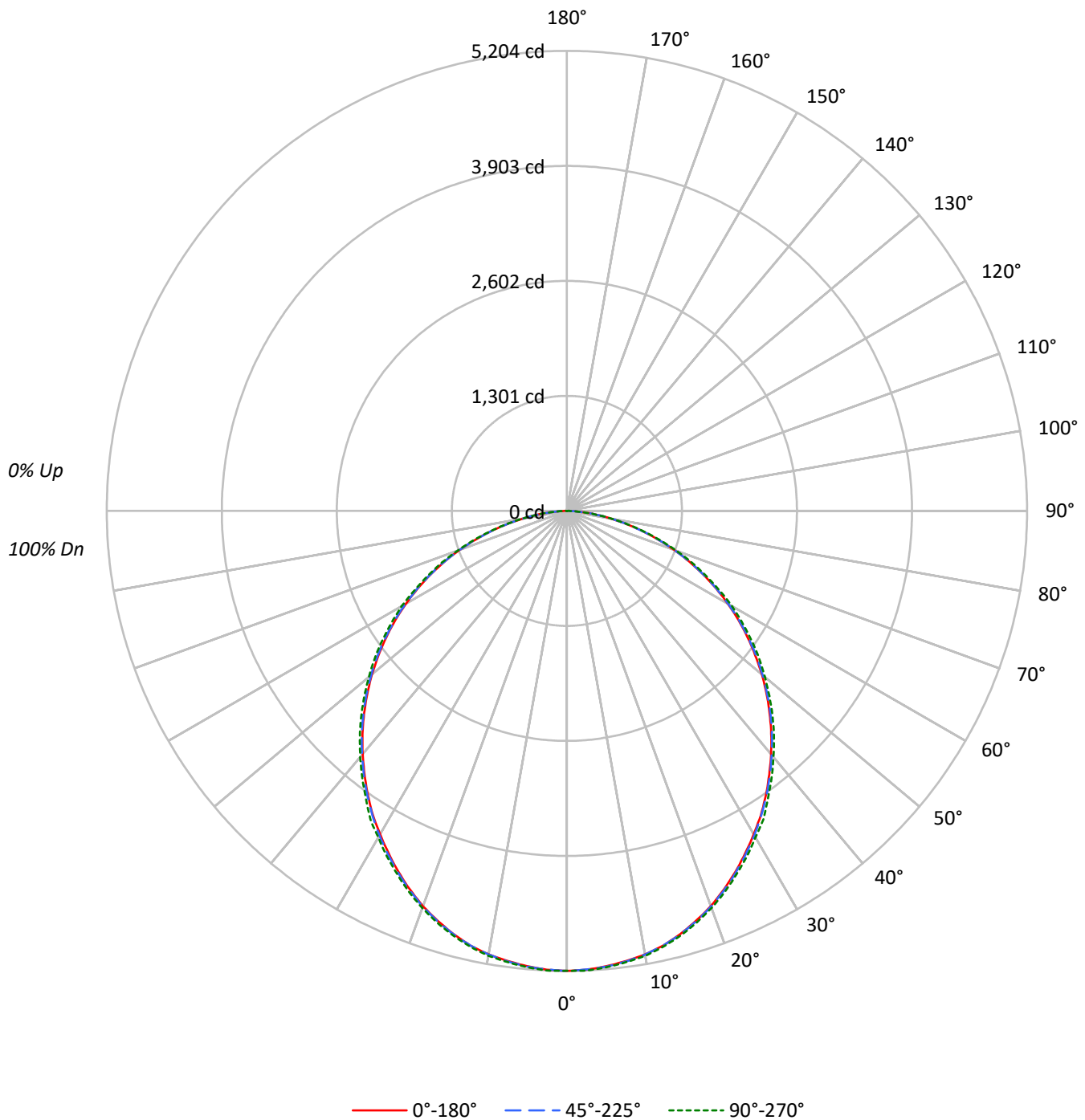
Lumens per Lamp: N/A
Luminaire Lumens: 14060.0 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 117
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°	7001	7001	7001
5°	6983	6988	6997
10°	6960	6962	6982
15°	6903	6907	6927
20°	6813	6821	6846
25°	6690	6706	6736
30°	6564	6586	6626
35°	6445	6460	6512
40°	6309	6329	6386
45°	6170	6197	6260
50°	6021	6048	6118
55°	5850	5878	5974
60°	5656	5679	5807
65°	5409	5426	5529
70°	5077	5081	5192
75°	4615	4598	4704
80°	3965	3949	4015
85°	3077	3027	3043

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.7	3.5
10°-20°	1398.7	9.9
20°-30°	2082.2	14.8
30°-40°	2462.4	17.5
40°-50°	2513.7	17.9
50°-60°	2243.4	16.0
60°-70°	1689.7	12.0
70°-80°	942.3	6.7
80°-90°	236.1	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°	3972.5	28.3
0°-40°	6434.9	45.8
0°-60°	11191.9	79.6
0°-90°	14060.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14060.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5203	5203	5203	5203	5203	
5°	5170	5180	5174	5175	5181	491
15°	4956	4961	4959	4963	4973	1397
25°	4506	4512	4517	4529	4538	2076
35°	3924	3919	3933	3948	3964	2454
45°	3243	3242	3257	3273	3290	2501
55°	2494	2491	2506	2523	2547	2229
65°	1699	1692	1704	1719	1737	1680
75°	888	880	884	889	905	941
85°	199	194	196	194	197	239
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5203.3	5203.3	5203.3	5203.3	5203.3
2.5°	5194.7	5203.3	5192.6	5194.7	5204.4
5°	5169.9	5179.6	5174.2	5175.3	5180.7
7.5°	5135.5	5148.4	5140.9	5143.0	5148.4
10°	5094.5	5104.2	5095.6	5101.0	5110.7
12.5°	5036.4	5040.7	5036.4	5038.5	5049.3
15°	4955.6	4960.9	4958.8	4963.1	4972.8
17.5°	4860.8	4867.2	4866.1	4874.8	4882.3
20°	4758.4	4759.5	4763.8	4772.4	4781.0
22.5°	4637.8	4641.0	4645.3	4657.1	4665.8
25°	4506.3	4511.7	4517.1	4528.9	4537.6
27.5°	4367.4	4372.7	4380.3	4393.2	4407.2
30°	4225.2	4225.2	4239.2	4252.1	4265.0
32.5°	4081.9	4076.5	4089.4	4105.6	4136.8
35°	3923.5	3919.2	3933.2	3948.3	3964.4
37.5°	3758.7	3755.5	3771.6	3787.8	3802.9
40°	3591.7	3587.4	3603.6	3619.7	3635.9
42.5°	3420.4	3418.3	3433.3	3449.5	3466.7
45°	3242.7	3241.6	3256.7	3272.8	3290.1
47.5°	3061.7	3059.5	3074.6	3091.8	3106.9
50°	2876.4	2874.2	2889.3	2906.5	2922.7
52.5°	2685.7	2685.7	2699.7	2714.8	2739.6
55°	2493.9	2490.7	2505.8	2523.0	2546.7
57.5°	2300.0	2295.7	2309.7	2327.0	2348.5
60°	2101.8	2097.5	2110.4	2127.7	2157.8
62.5°	1901.4	1895.0	1907.9	1924.0	1942.4
65°	1698.9	1692.4	1704.3	1719.4	1736.6
67.5°	1495.3	1487.7	1499.6	1512.5	1528.7
70°	1290.6	1283.1	1291.7	1304.6	1319.7
72.5°	1087.0	1079.4	1087.0	1092.4	1110.7
75°	887.7	880.2	884.5	888.8	904.9
77.5°	693.8	686.2	694.9	697.0	706.7
80°	511.7	504.2	509.6	510.6	518.2
82.5°	345.8	339.3	346.9	341.5	348.0
85°	199.3	193.9	196.1	193.9	197.1
87.5°	78.6	74.3	75.4	71.1	71.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)