

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: P834984

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

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834984
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-LD4-4HI-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

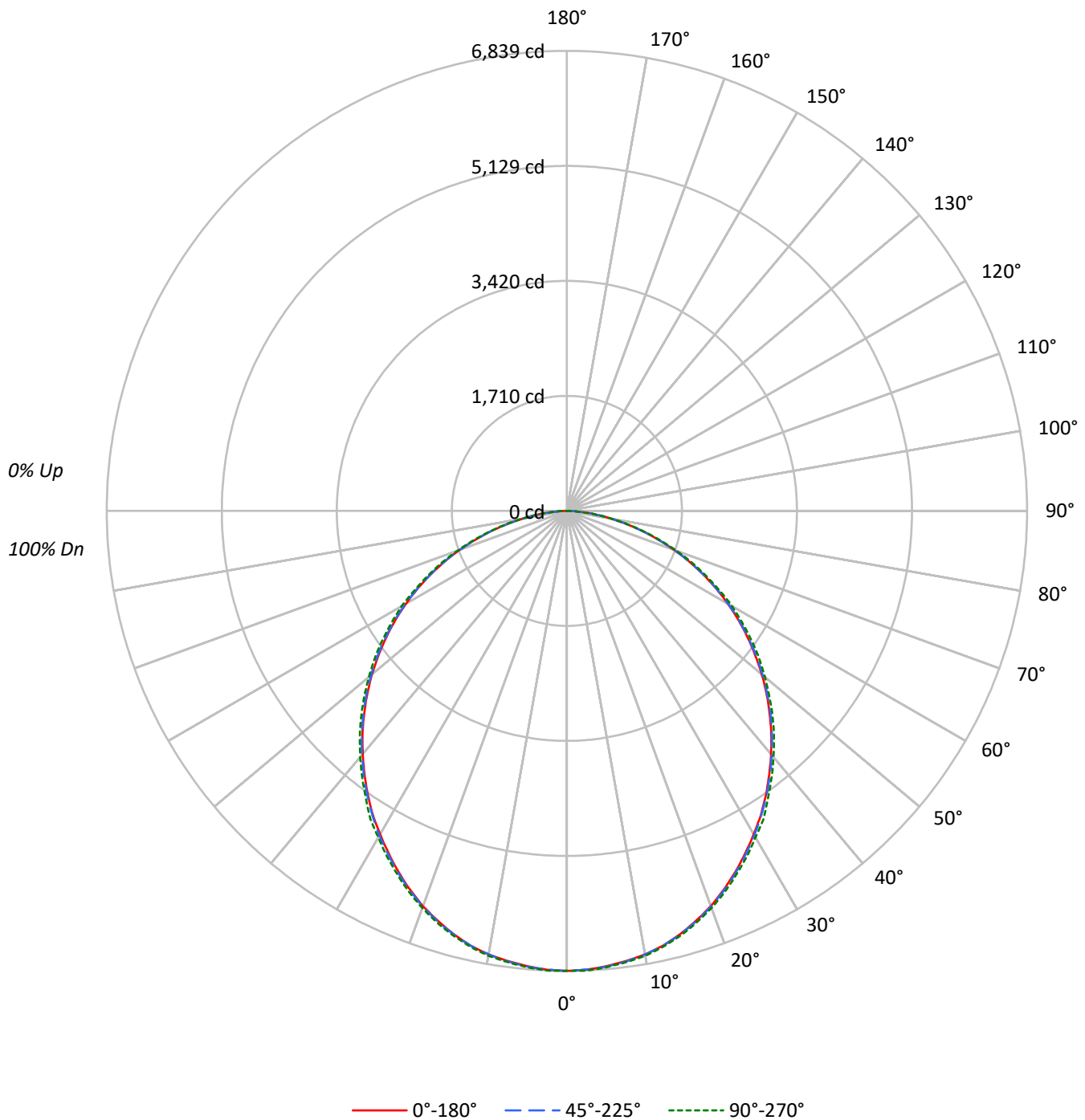
Lumens per Lamp: N/A
Luminaire Lumens: 18476.7 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 176
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°	9200	9200	9200
5°	9176	9184	9195
10°	9147	9149	9176
15°	9071	9077	9103
20°	8954	8964	8996
25°	8792	8813	8853
30°	8626	8655	8708
35°	8469	8490	8557
40°	8290	8318	8392
45°	8108	8143	8227
50°	7912	7948	8040
55°	7688	7724	7851
60°	7433	7463	7631
65°	7108	7131	7266
70°	6672	6677	6822
75°	6064	6042	6182
80°	5211	5188	5277
85°	4043	3978	4000

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	646.2	3.5
10°-20°	1838.0	9.9
20°-30°	2736.2	14.8
30°-40°	3235.9	17.5
40°-50°	3303.4	17.9
50°-60°	2948.1	16.0
60°-70°	2220.5	12.0
70°-80°	1238.3	6.7
80°-90°	310.2	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°	5220.4	28.3
0°-40°	8456.3	45.8
0°-60°	14707.7	79.6
0°-90°	18476.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18476.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6838	6838	6838	6838	6838	
5°	6794	6807	6800	6801	6808	645
15°	6512	6519	6516	6522	6535	1836
25°	5922	5929	5936	5952	5963	2728
35°	5156	5150	5169	5189	5210	3224
45°	4261	4260	4280	4301	4324	3287
55°	3277	3273	3293	3316	3347	2930
65°	2233	2224	2240	2260	2282	2208
75°	1166	1157	1162	1168	1189	1237
85°	262	255	258	255	259	314
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6837.9	6837.9	6837.9	6837.9	6837.9
2.5°	6826.6	6837.9	6823.7	6826.6	6839.3
5°	6794.0	6806.7	6799.7	6801.1	6808.2
7.5°	6748.7	6765.7	6755.8	6758.6	6765.7
10°	6694.9	6707.6	6696.3	6703.4	6716.1
12.5°	6618.5	6624.1	6618.5	6621.3	6635.4
15°	6512.3	6519.4	6516.5	6522.2	6534.9
17.5°	6387.7	6396.2	6394.8	6406.1	6416.0
20°	6253.2	6254.6	6260.3	6271.6	6282.9
22.5°	6094.6	6098.9	6104.6	6120.1	6131.5
25°	5921.9	5929.0	5936.1	5951.7	5963.0
27.5°	5739.3	5746.4	5756.3	5773.3	5791.7
30°	5552.4	5552.4	5570.8	5587.8	5604.8
32.5°	5364.1	5357.1	5374.0	5395.3	5436.3
35°	5156.0	5150.4	5168.8	5188.6	5209.8
37.5°	4939.4	4935.2	4956.4	4977.6	4997.5
40°	4720.0	4714.3	4735.6	4756.8	4778.0
42.5°	4494.9	4492.1	4511.9	4533.1	4555.8
45°	4261.3	4259.9	4279.7	4300.9	4323.6
47.5°	4023.5	4020.6	4040.4	4063.1	4082.9
50°	3780.0	3777.1	3796.9	3819.6	3840.8
52.5°	3529.4	3529.4	3547.8	3567.6	3600.2
55°	3277.4	3273.1	3292.9	3315.6	3346.7
57.5°	3022.5	3016.9	3035.3	3057.9	3086.3
60°	2762.1	2756.4	2773.4	2796.0	2835.7
62.5°	2498.7	2490.2	2507.2	2528.5	2552.5
65°	2232.6	2224.1	2239.7	2259.5	2282.1
67.5°	1965.0	1955.1	1970.7	1987.7	2008.9
70°	1696.0	1686.1	1697.4	1714.4	1734.2
72.5°	1428.5	1418.5	1428.5	1435.5	1459.6
75°	1166.5	1156.6	1162.3	1168.0	1189.2
77.5°	911.7	901.8	913.1	916.0	928.7
80°	672.5	662.6	669.6	671.0	681.0
82.5°	454.4	445.9	455.9	448.8	457.3
85°	261.9	254.8	257.7	254.8	259.1
87.5°	103.3	97.7	99.1	93.4	93.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)