

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: P834469

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-1LO-30-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834469
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-LD4-1LO-30-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

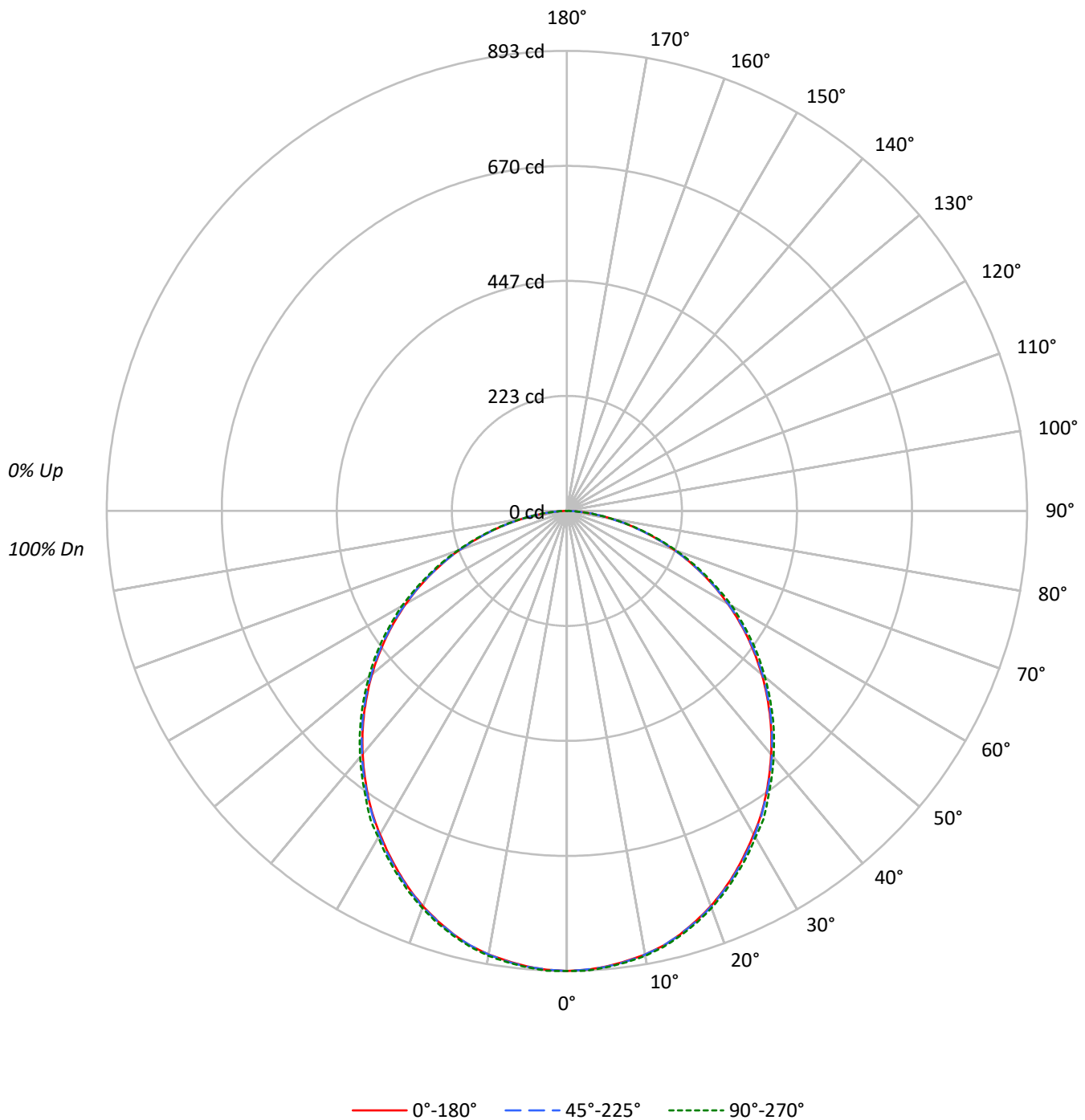
Lumens per Lamp: N/A
Luminaire Lumens: 2413.2 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2403	2403	2403
5°	2397	2399	2402
10°	2389	2390	2397
15°	2370	2371	2378
20°	2339	2342	2350
25°	2297	2302	2312
30°	2253	2261	2275
35°	2212	2218	2235
40°	2166	2173	2192
45°	2118	2127	2149
50°	2067	2076	2100
55°	2008	2018	2051
60°	1942	1949	1993
65°	1857	1862	1898
70°	1743	1744	1782
75°	1585	1578	1615
80°	1361	1356	1378
85°	1056	1041	1044

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.4	3.5
10°-20°	240.1	9.9
20°-30°	357.4	14.8
30°-40°	422.6	17.5
40°-50°	431.5	17.9
50°-60°	385.0	16.0
60°-70°	290.0	12.0
70°-80°	161.7	6.7
80°-90°	40.5	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°	681.8	28.3
0°-40°	1104.5	45.8
0°-60°	1921.0	79.6
0°-90°	2413.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2413.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	893	893	893	893	893	
5°	887	889	888	888	889	84
15°	851	852	851	852	854	240
25°	774	774	775	777	779	356
35°	673	673	675	678	680	421
45°	557	556	559	562	565	429
55°	428	428	430	433	437	383
65°	292	290	292	295	298	288
75°	152	151	152	152	155	162
85°	34	33	34	33	34	41
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	893.1	893.1	893.1	893.1	893.1
2.5°	891.6	893.1	891.2	891.6	893.3
5°	887.4	889.0	888.1	888.3	889.2
7.5°	881.4	883.7	882.4	882.7	883.7
10°	874.4	876.1	874.6	875.5	877.2
12.5°	864.4	865.2	864.4	864.8	866.7
15°	850.6	851.5	851.1	851.9	853.5
17.5°	834.3	835.4	835.2	836.7	838.0
20°	816.7	816.9	817.7	819.1	820.6
22.5°	796.0	796.6	797.3	799.3	800.8
25°	773.5	774.4	775.3	777.3	778.8
27.5°	749.6	750.5	751.8	754.0	756.4
30°	725.2	725.2	727.6	729.8	732.0
32.5°	700.6	699.7	701.9	704.7	710.0
35°	673.4	672.7	675.1	677.7	680.5
37.5°	645.1	644.6	647.4	650.1	652.7
40°	616.5	615.7	618.5	621.3	624.1
42.5°	587.1	586.7	589.3	592.1	595.0
45°	556.6	556.4	559.0	561.7	564.7
47.5°	525.5	525.1	527.7	530.7	533.3
50°	493.7	493.3	495.9	498.9	501.6
52.5°	461.0	461.0	463.4	466.0	470.2
55°	428.1	427.5	430.1	433.0	437.1
57.5°	394.8	394.0	396.4	399.4	403.1
60°	360.8	360.0	362.2	365.2	370.4
62.5°	326.4	325.2	327.5	330.2	333.4
65°	291.6	290.5	292.5	295.1	298.1
67.5°	256.6	255.4	257.4	259.6	262.4
70°	221.5	220.2	221.7	223.9	226.5
72.5°	186.6	185.3	186.6	187.5	190.6
75°	152.4	151.1	151.8	152.5	155.3
77.5°	119.1	117.8	119.3	119.6	121.3
80°	87.8	86.5	87.5	87.6	88.9
82.5°	59.4	58.2	59.5	58.6	59.7
85°	34.2	33.3	33.7	33.3	33.8
87.5°	13.5	12.8	12.9	12.2	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)