

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: P834475

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-3LO-30-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834475
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-LD4-3LO-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

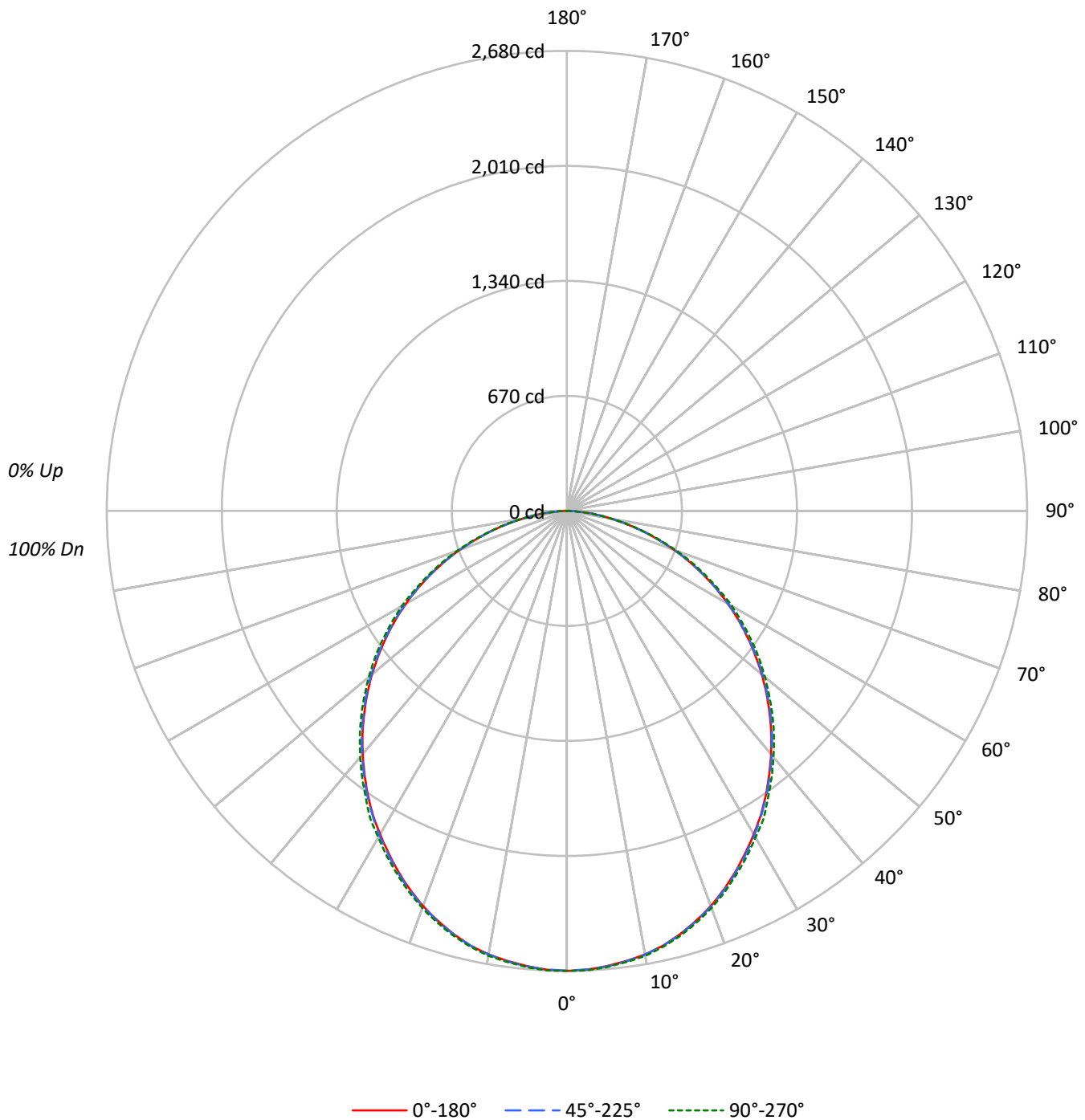
Lumens per Lamp: N/A
Luminaire Lumens: 7239.7 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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	27	27	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7210	7210	7210
5°	7191	7197	7206
10°	7168	7170	7191
15°	7109	7114	7134
20°	7017	7025	7050
25°	6890	6906	6937
30°	6760	6783	6824
35°	6637	6653	6706
40°	6497	6518	6577
45°	6354	6382	6447
50°	6201	6228	6300
55°	6025	6054	6152
60°	5825	5849	5980
65°	5570	5588	5694
70°	5229	5233	5346
75°	4753	4735	4845
80°	4083	4066	4135
85°	3168	3118	3134

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.2	3.5
10°-20°	720.2	9.9
20°-30°	1072.1	14.8
30°-40°	1267.9	17.5
40°-50°	1294.3	17.9
50°-60°	1155.1	16.0
60°-70°	870.0	12.0
70°-80°	485.2	6.7
80°-90°	121.5	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°	2045.5	28.3
0°-40°	3313.4	45.8
0°-60°	5762.9	79.6
0°-90°	7239.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7239.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2679	2679	2679	2679	2679	
5°	2662	2667	2664	2665	2668	253
15°	2552	2554	2553	2556	2561	719
25°	2320	2323	2326	2332	2336	1069
35°	2020	2018	2025	2033	2041	1263
45°	1670	1669	1677	1685	1694	1288
55°	1284	1282	1290	1299	1311	1148
65°	875	872	878	885	894	865
75°	457	453	455	458	466	485
85°	103	100	101	100	102	123
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2679.3	2679.3	2679.3	2679.3	2679.3
2.5°	2674.8	2679.3	2673.7	2674.8	2679.8
5°	2662.1	2667.1	2664.3	2664.9	2667.6
7.5°	2644.3	2651.0	2647.1	2648.2	2651.0
10°	2623.3	2628.2	2623.8	2626.6	2631.6
12.5°	2593.3	2595.5	2593.3	2594.4	2600.0
15°	2551.7	2554.5	2553.4	2555.6	2560.6
17.5°	2502.9	2506.2	2505.7	2510.1	2514.0
20°	2450.2	2450.7	2453.0	2457.4	2461.8
22.5°	2388.1	2389.7	2391.9	2398.0	2402.5
25°	2320.4	2323.2	2325.9	2332.0	2336.5
27.5°	2248.8	2251.6	2255.5	2262.1	2269.3
30°	2175.6	2175.6	2182.8	2189.5	2196.1
32.5°	2101.8	2099.0	2105.7	2114.0	2130.1
35°	2020.3	2018.1	2025.3	2033.0	2041.4
37.5°	1935.4	1933.7	1942.1	1950.4	1958.1
40°	1849.4	1847.2	1855.5	1863.8	1872.2
42.5°	1761.2	1760.1	1767.9	1776.2	1785.1
45°	1669.7	1669.1	1676.9	1685.2	1694.1
47.5°	1576.5	1575.4	1583.2	1592.0	1599.8
50°	1481.1	1480.0	1487.7	1496.6	1504.9
52.5°	1382.9	1382.9	1390.1	1397.9	1410.6
55°	1284.2	1282.5	1290.3	1299.1	1311.3
57.5°	1184.3	1182.1	1189.3	1198.2	1209.3
60°	1082.3	1080.0	1086.7	1095.6	1111.1
62.5°	979.1	975.7	982.4	990.7	1000.2
65°	874.8	871.5	877.6	885.3	894.2
67.5°	769.9	766.1	772.2	778.8	787.1
70°	664.6	660.7	665.1	671.8	679.5
72.5°	559.7	555.8	559.7	562.5	571.9
75°	457.1	453.2	455.4	457.6	466.0
77.5°	357.2	353.4	357.8	358.9	363.9
80°	263.5	259.6	262.4	262.9	266.8
82.5°	178.1	174.7	178.6	175.8	179.2
85°	102.6	99.8	101.0	99.8	101.5
87.5°	40.5	38.3	38.8	36.6	36.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)