

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: P834493

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-3LO-40-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834493
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-40-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

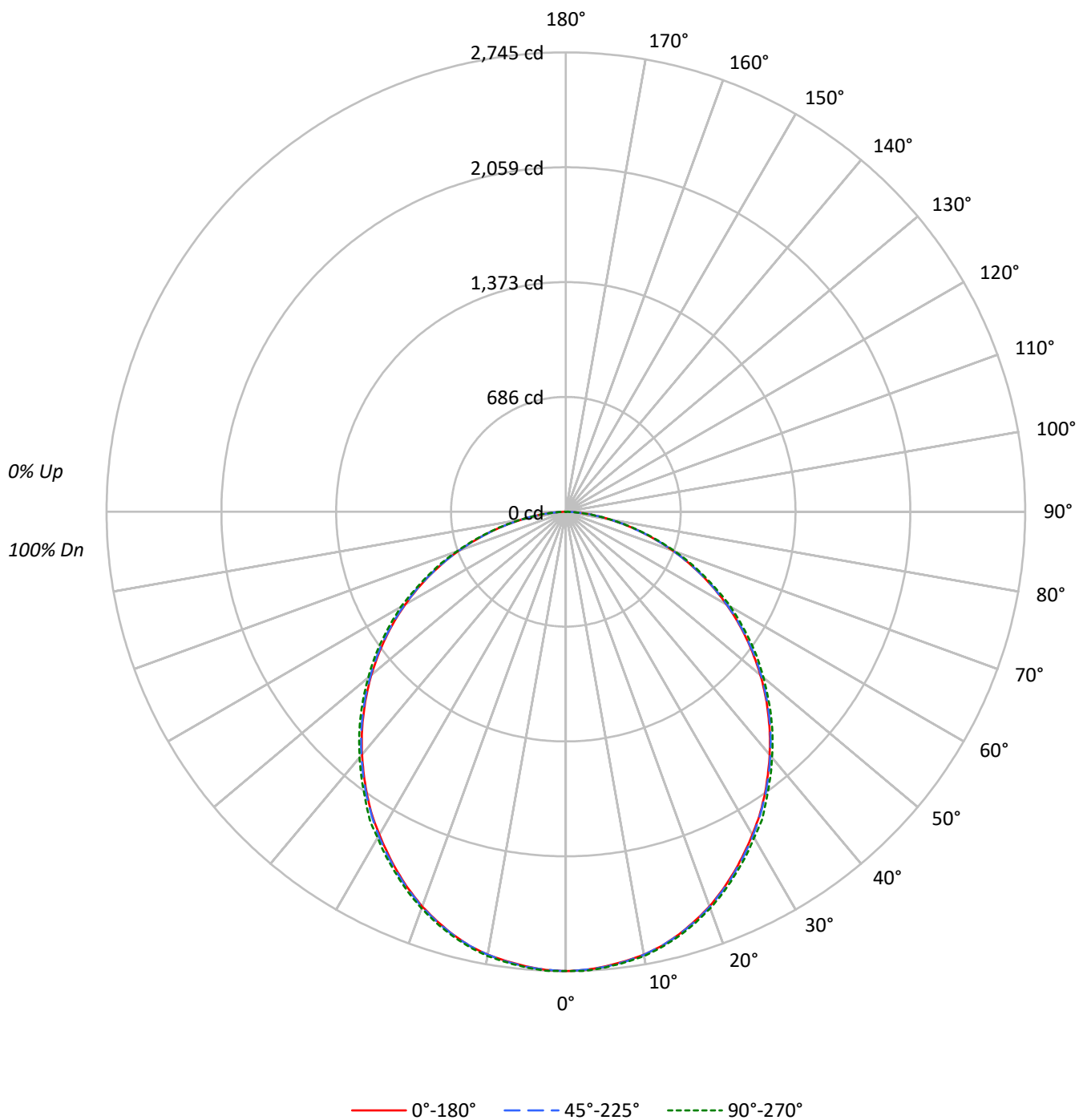
Lumens per Lamp: N/A
Luminaire Lumens: 7416.3 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

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°	7386	7386	7386
5°	7366	7373	7382
10°	7343	7344	7366
15°	7282	7287	7307
20°	7188	7196	7222
25°	7058	7075	7107
30°	6925	6948	6990
35°	6799	6816	6869
40°	6655	6677	6737
45°	6509	6537	6604
50°	6352	6380	6454
55°	6172	6201	6302
60°	5966	5991	6126
65°	5706	5724	5833
70°	5356	5360	5477
75°	4868	4850	4963
80°	4183	4166	4235
85°	3245	3193	3211

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.4	3.5
10°-20°	737.8	9.9
20°-30°	1098.3	14.8
30°-40°	1298.8	17.5
40°-50°	1325.9	17.9
50°-60°	1183.3	16.0
60°-70°	891.3	12.0
70°-80°	497.0	6.7
80°-90°	124.5	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°	2095.4	28.3
0°-40°	3394.2	45.8
0°-60°	5903.5	79.6
0°-90°	7416.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7416.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2745	2745	2745	2745	2745	
5°	2727	2732	2729	2730	2733	259
15°	2614	2617	2616	2618	2623	737
25°	2377	2380	2383	2389	2394	1095
35°	2070	2067	2075	2083	2091	1294
45°	1710	1710	1718	1726	1735	1319
55°	1316	1314	1322	1331	1343	1176
65°	896	893	899	907	916	886
75°	468	464	466	469	477	496
85°	105	102	103	102	104	126
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2744.6	2744.6	2744.6	2744.6	2744.6
2.5°	2740.1	2744.6	2738.9	2740.1	2745.2
5°	2727.0	2732.1	2729.3	2729.9	2732.7
7.5°	2708.8	2715.6	2711.7	2712.8	2715.6
10°	2687.2	2692.3	2687.8	2690.6	2695.8
12.5°	2656.6	2658.8	2656.6	2657.7	2663.4
15°	2613.9	2616.8	2615.6	2617.9	2623.0
17.5°	2563.9	2567.3	2566.8	2571.3	2575.3
20°	2509.9	2510.5	2512.8	2517.3	2521.9
22.5°	2446.3	2448.0	2450.3	2456.5	2461.1
25°	2377.0	2379.8	2382.7	2388.9	2393.5
27.5°	2303.7	2306.5	2310.5	2317.3	2324.7
30°	2228.7	2228.7	2236.0	2242.9	2249.7
32.5°	2153.1	2150.2	2157.1	2165.6	2182.1
35°	2069.6	2067.3	2074.7	2082.6	2091.1
37.5°	1982.6	1980.9	1989.4	1998.0	2005.9
40°	1894.5	1892.3	1900.8	1909.3	1917.8
42.5°	1804.2	1803.0	1811.0	1819.5	1828.6
45°	1710.4	1709.9	1717.8	1726.3	1735.4
47.5°	1615.0	1613.8	1621.8	1630.9	1638.8
50°	1517.2	1516.1	1524.0	1533.1	1541.7
52.5°	1416.6	1416.6	1424.0	1432.0	1445.0
55°	1315.5	1313.8	1321.7	1330.8	1343.3
57.5°	1213.2	1210.9	1218.3	1227.4	1238.8
60°	1108.6	1106.4	1113.2	1122.3	1138.2
62.5°	1003.0	999.5	1006.4	1014.9	1024.5
65°	896.1	892.7	899.0	906.9	916.0
67.5°	788.7	784.7	791.0	797.8	806.3
70°	680.8	676.8	681.3	688.1	696.1
72.5°	573.4	569.4	573.4	576.2	585.9
75°	468.2	464.3	466.5	468.8	477.3
77.5°	366.0	362.0	366.5	367.7	372.8
80°	269.9	265.9	268.8	269.3	273.3
82.5°	182.4	179.0	183.0	180.1	183.5
85°	105.1	102.3	103.4	102.3	104.0
87.5°	41.5	39.2	39.8	37.5	37.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)