

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: P835033

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-3LO-50-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835033
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-LD4-3LO-50-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

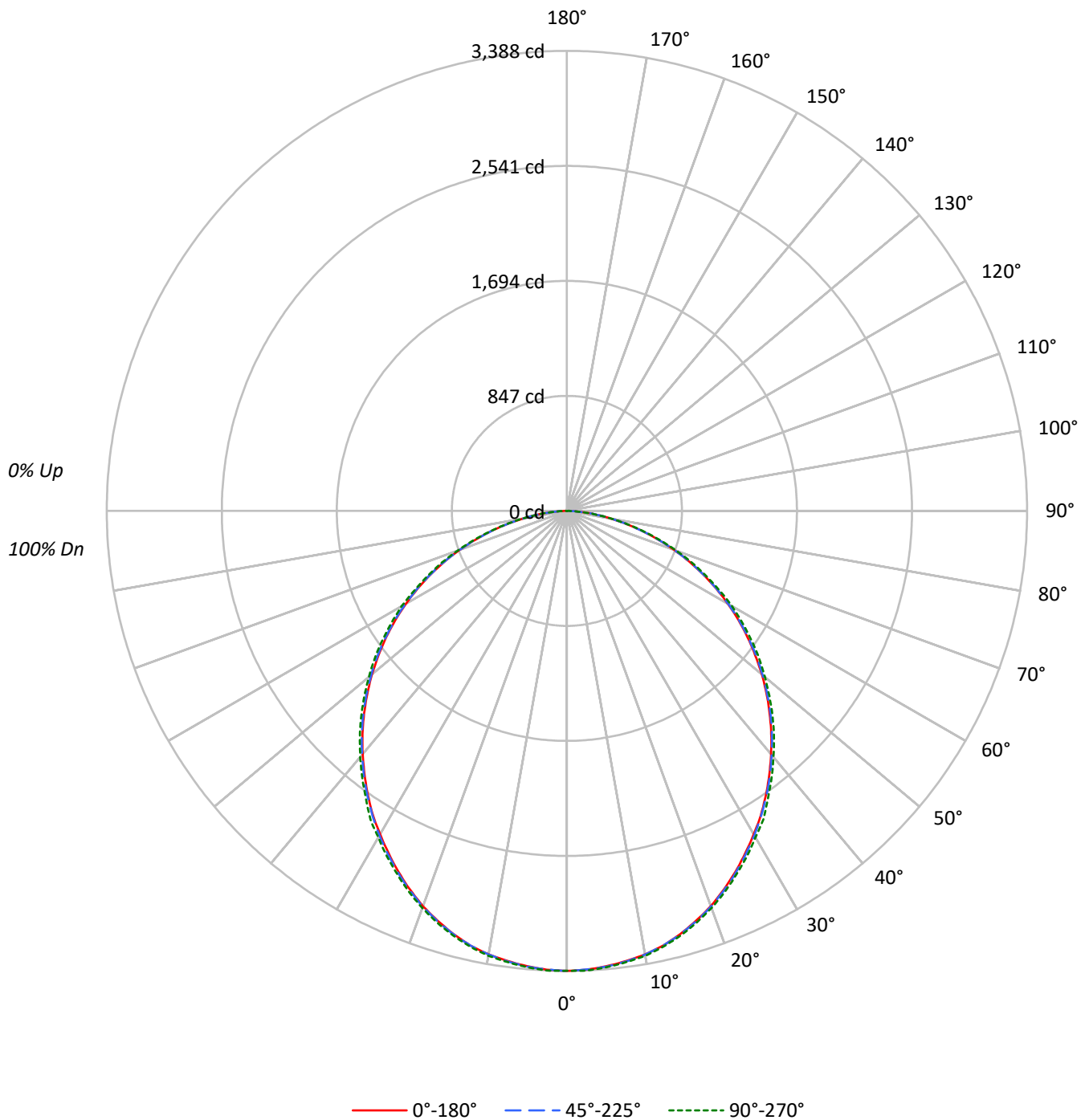
Lumens per Lamp: N/A
Luminaire Lumens: 9153.7 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	4558	4558	4558
5°	4546	4550	4556
10°	4532	4533	4546
15°	4494	4497	4510
20°	4436	4441	4457
25°	4355	4366	4386
30°	4274	4288	4314
35°	4196	4206	4240
40°	4107	4121	4158
45°	4017	4035	4076
50°	3920	3938	3983
55°	3809	3827	3889
60°	3682	3697	3780
65°	3521	3533	3599
70°	3305	3308	3380
75°	3004	2993	3063
80°	2582	2570	2614
85°	2004	1970	1982

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.1	3.5
10°-20°	910.6	9.9
20°-30°	1355.6	14.8
30°-40°	1603.1	17.5
40°-50°	1636.6	17.9
50°-60°	1460.5	16.0
60°-70°	1100.1	12.0
70°-80°	613.5	6.7
80°-90°	153.7	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°	2586.3	28.3
0°-40°	4189.4	45.8
0°-60°	7286.5	79.6
0°-90°	9153.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9153.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3388	3388	3388	3388	3388	
5°	3366	3372	3369	3369	3373	320
15°	3226	3230	3228	3231	3238	909
25°	2934	2937	2941	2949	2954	1352
35°	2554	2552	2561	2570	2581	1597
45°	2111	2110	2120	2131	2142	1629
55°	1624	1622	1631	1643	1658	1451
65°	1106	1102	1110	1119	1131	1094
75°	578	573	576	579	589	613
85°	130	126	128	126	128	156
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3387.6	3387.6	3387.6	3387.6	3387.6
2.5°	3382.0	3387.6	3380.6	3382.0	3388.3
5°	3365.9	3372.2	3368.7	3369.4	3372.9
7.5°	3343.4	3351.9	3347.0	3348.4	3351.9
10°	3316.8	3323.1	3317.5	3321.0	3327.3
12.5°	3278.9	3281.7	3278.9	3280.3	3287.3
15°	3226.3	3229.8	3228.4	3231.2	3237.5
17.5°	3164.6	3168.8	3168.1	3173.7	3178.6
20°	3098.0	3098.7	3101.5	3107.1	3112.7
22.5°	3019.4	3021.5	3024.3	3032.0	3037.6
25°	2933.8	2937.3	2940.9	2948.6	2954.2
27.5°	2843.4	2846.9	2851.8	2860.2	2869.3
30°	2750.8	2750.8	2759.9	2768.3	2776.7
32.5°	2657.5	2654.0	2662.4	2672.9	2693.3
35°	2554.4	2551.6	2560.7	2570.5	2581.1
37.5°	2447.1	2445.0	2455.5	2466.0	2475.8
40°	2338.4	2335.6	2346.1	2356.6	2367.1
42.5°	2226.9	2225.5	2235.3	2245.8	2257.0
45°	2111.1	2110.4	2120.3	2130.8	2142.0
47.5°	1993.3	1991.9	2001.7	2012.9	2022.8
50°	1872.7	1871.3	1881.1	1892.3	1902.8
52.5°	1748.5	1748.5	1757.6	1767.5	1783.6
55°	1623.7	1621.6	1631.4	1642.6	1658.0
57.5°	1497.4	1494.6	1503.7	1515.0	1529.0
60°	1368.4	1365.6	1374.0	1385.2	1404.8
62.5°	1237.9	1233.7	1242.1	1252.7	1264.6
65°	1106.1	1101.9	1109.6	1119.4	1130.6
67.5°	973.5	968.6	976.3	984.7	995.2
70°	840.2	835.3	840.9	849.4	859.2
72.5°	707.7	702.8	707.7	711.2	723.1
75°	577.9	573.0	575.8	578.6	589.2
77.5°	451.7	446.8	452.4	453.8	460.1
80°	333.2	328.2	331.7	332.5	337.4
82.5°	225.1	220.9	225.8	222.3	226.5
85°	129.8	126.2	127.6	126.2	128.4
87.5°	51.2	48.4	49.1	46.3	46.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)