

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: P834979

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-3LO-30-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834979
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-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

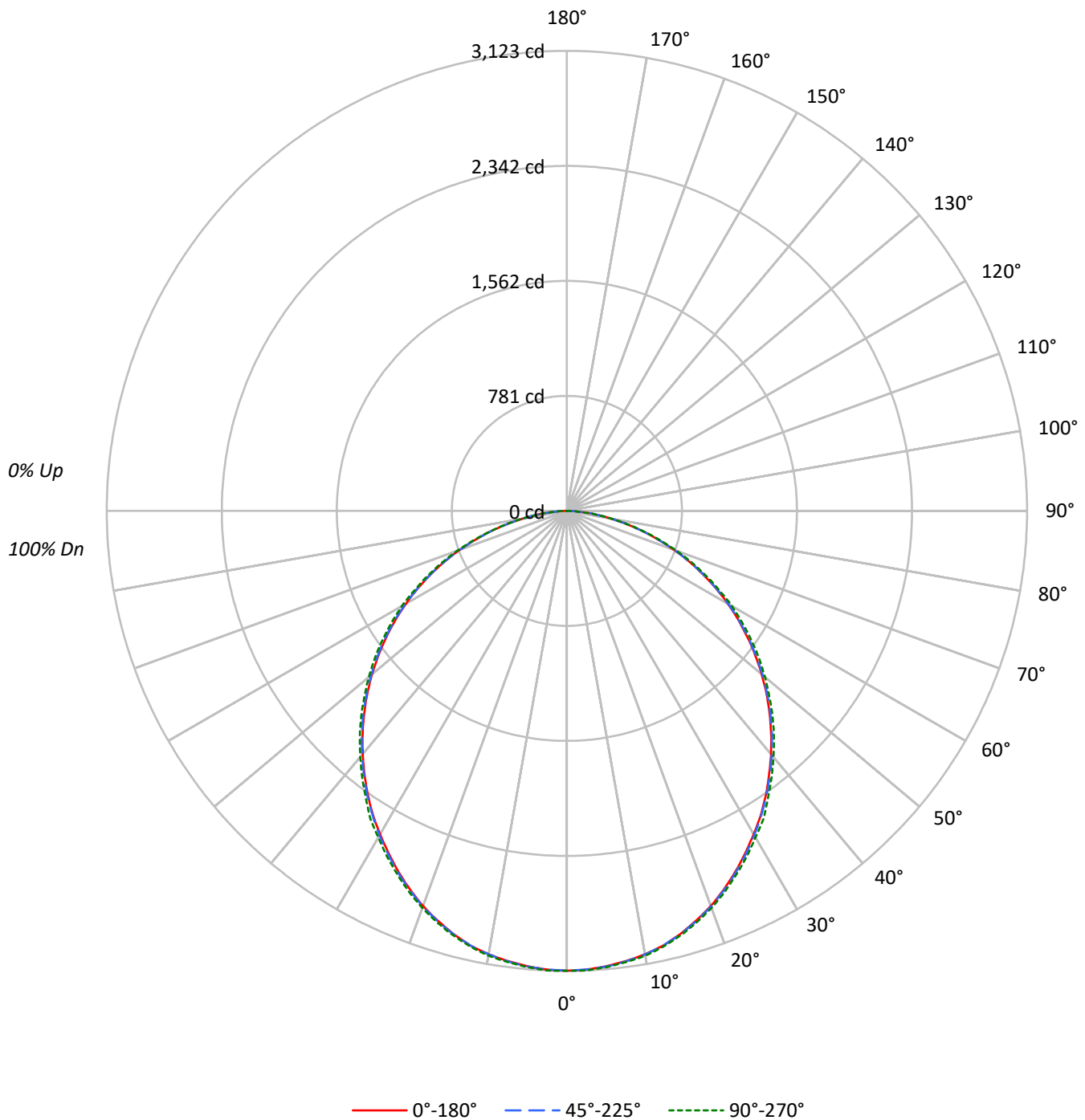
Lumens per Lamp: N/A
Luminaire Lumens: 8435.8 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4200	4200	4200
5°	4190	4193	4198
10°	4176	4177	4189
15°	4142	4144	4156
20°	4088	4092	4107
25°	4014	4024	4042
30°	3938	3952	3976
35°	3867	3876	3907
40°	3785	3798	3832
45°	3702	3718	3756
50°	3612	3629	3671
55°	3510	3527	3584
60°	3394	3407	3484
65°	3245	3255	3317
70°	3046	3049	3115
75°	2769	2759	2822
80°	2379	2369	2409
85°	1846	1815	1826

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.0	3.5
10°-20°	839.2	9.9
20°-30°	1249.3	14.8
30°-40°	1477.4	17.5
40°-50°	1508.2	17.9
50°-60°	1346.0	16.0
60°-70°	1013.8	12.0
70°-80°	565.4	6.7
80°-90°	141.6	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°	2383.4	28.3
0°-40°	3860.8	45.8
0°-60°	6715.0	79.6
0°-90°	8435.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8435.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3122	3122	3122	3122	3122	
5°	3102	3108	3104	3105	3108	295
15°	2973	2976	2975	2978	2984	838
25°	2704	2707	2710	2717	2722	1246
35°	2354	2352	2360	2369	2379	1472
45°	1946	1945	1954	1964	1974	1501
55°	1496	1494	1503	1514	1528	1338
65°	1019	1015	1022	1032	1042	1008
75°	533	528	531	533	543	565
85°	120	116	118	116	118	144
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3121.9	3121.9	3121.9	3121.9	3121.9
2.5°	3116.8	3121.9	3115.5	3116.8	3122.6
5°	3101.9	3107.7	3104.5	3105.1	3108.4
7.5°	3081.2	3089.0	3084.4	3085.7	3089.0
10°	3056.7	3062.5	3057.3	3060.5	3066.3
12.5°	3021.7	3024.3	3021.7	3023.0	3029.5
15°	2973.3	2976.5	2975.2	2977.8	2983.6
17.5°	2916.4	2920.3	2919.6	2924.8	2929.3
20°	2855.0	2855.6	2858.2	2863.4	2868.6
22.5°	2782.6	2784.5	2787.1	2794.2	2799.4
25°	2703.7	2707.0	2710.2	2717.3	2722.5
27.5°	2620.4	2623.6	2628.1	2635.9	2644.3
30°	2535.0	2535.0	2543.4	2551.2	2559.0
32.5°	2449.1	2445.8	2453.6	2463.3	2482.0
35°	2354.1	2351.5	2359.9	2368.9	2378.6
37.5°	2255.2	2253.2	2262.9	2272.6	2281.7
40°	2155.0	2152.4	2162.1	2171.8	2181.5
42.5°	2052.2	2050.9	2060.0	2069.7	2080.0
45°	1945.6	1944.9	1954.0	1963.7	1974.0
47.5°	1837.0	1835.7	1844.7	1855.1	1864.1
50°	1725.8	1724.5	1733.5	1743.9	1753.6
52.5°	1611.4	1611.4	1619.8	1628.8	1643.7
55°	1496.3	1494.4	1503.4	1513.8	1528.0
57.5°	1380.0	1377.4	1385.8	1396.1	1409.1
60°	1261.1	1258.5	1266.2	1276.6	1294.7
62.5°	1140.8	1137.0	1144.7	1154.4	1165.4
65°	1019.3	1015.4	1022.5	1031.6	1041.9
67.5°	897.2	892.6	899.7	907.5	917.2
70°	774.3	769.8	775.0	782.7	791.8
72.5°	652.2	647.7	652.2	655.4	666.4
75°	532.6	528.1	530.7	533.2	542.9
77.5°	416.3	411.7	416.9	418.2	424.0
80°	307.0	302.5	305.7	306.4	310.9
82.5°	207.5	203.6	208.1	204.9	208.8
85°	119.6	116.3	117.6	116.3	118.3
87.5°	47.2	44.6	45.2	42.7	42.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)