

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: P834421

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

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834421
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
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

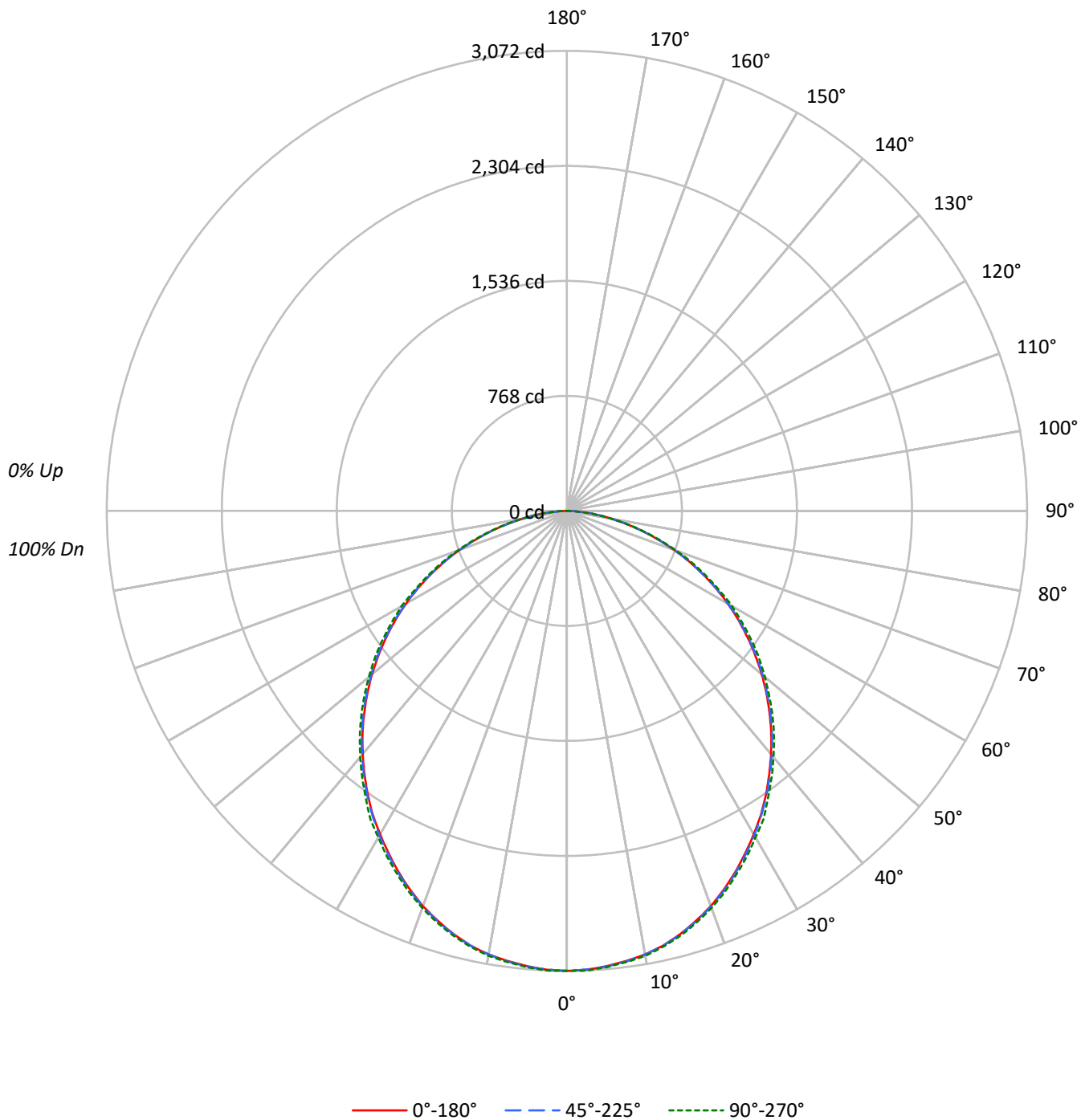
Lumens per Lamp: N/A
Luminaire Lumens: 8299.2 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8265	8265	8265
5°	8243	8250	8260
10°	8217	8219	8243
15°	8149	8154	8177
20°	8043	8052	8082
25°	7898	7917	7953
30°	7750	7775	7823
35°	7608	7627	7687
40°	7448	7472	7539
45°	7284	7316	7391
50°	7108	7140	7222
55°	6906	6939	7053
60°	6677	6704	6855
65°	6385	6406	6527
70°	5994	5998	6129
75°	5448	5428	5554
80°	4680	4661	4740
85°	3631	3572	3594

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.2	3.5
10°-20°	825.6	9.9
20°-30°	1229.0	14.8
30°-40°	1453.5	17.5
40°-50°	1483.8	17.9
50°-60°	1324.2	16.0
60°-70°	997.4	12.0
70°-80°	556.2	6.7
80°-90°	139.4	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°	2344.8	28.3
0°-40°	3798.3	45.8
0°-60°	6606.3	79.6
0°-90°	8299.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8299.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3071	3071	3071	3071	3071	
5°	3052	3057	3054	3055	3058	290
15°	2925	2928	2927	2930	2935	824
25°	2660	2663	2666	2673	2678	1225
35°	2316	2313	2322	2331	2340	1448
45°	1914	1913	1922	1932	1942	1476
55°	1472	1470	1479	1489	1503	1316
65°	1003	999	1006	1015	1025	992
75°	524	520	522	525	534	555
85°	118	114	116	114	116	141
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3071.4	3071.4	3071.4	3071.4	3071.4
2.5°	3066.3	3071.4	3065.0	3066.3	3072.0
5°	3051.7	3057.4	3054.2	3054.8	3058.0
7.5°	3031.3	3038.9	3034.5	3035.8	3038.9
10°	3007.1	3012.9	3007.8	3011.0	3016.7
12.5°	2972.8	2975.3	2972.8	2974.1	2980.4
15°	2925.1	2928.3	2927.0	2929.6	2935.3
17.5°	2869.2	2873.0	2872.3	2877.4	2881.9
20°	2808.7	2809.4	2811.9	2817.0	2822.1
22.5°	2737.5	2739.4	2742.0	2749.0	2754.1
25°	2659.9	2663.1	2666.3	2673.3	2678.4
27.5°	2577.9	2581.1	2585.5	2593.2	2601.4
30°	2494.0	2494.0	2502.2	2509.9	2517.5
32.5°	2409.4	2406.2	2413.9	2423.4	2441.8
35°	2315.9	2313.4	2321.7	2330.6	2340.1
37.5°	2218.6	2216.7	2226.3	2235.8	2244.7
40°	2120.1	2117.5	2127.1	2136.6	2146.1
42.5°	2019.0	2017.7	2026.6	2036.1	2046.3
45°	1914.0	1913.4	1922.3	1931.8	1942.0
47.5°	1807.2	1805.9	1814.8	1825.0	1833.9
50°	1697.8	1696.6	1705.5	1715.6	1725.2
52.5°	1585.3	1585.3	1593.6	1602.5	1617.1
55°	1472.1	1470.2	1479.1	1489.3	1503.3
57.5°	1357.6	1355.1	1363.4	1373.5	1386.2
60°	1240.6	1238.1	1245.7	1255.9	1273.7
62.5°	1122.4	1118.5	1126.2	1135.7	1146.5
65°	1002.8	999.0	1006.0	1014.9	1025.1
67.5°	882.6	878.2	885.2	892.8	902.3
70°	761.8	757.4	762.4	770.1	779.0
72.5°	641.6	637.2	641.6	644.8	655.6
75°	524.0	519.5	522.1	524.6	534.2
77.5°	409.5	405.1	410.2	411.4	417.1
80°	302.0	297.6	300.8	301.4	305.9
82.5°	204.1	200.3	204.8	201.6	205.4
85°	117.6	114.5	115.7	114.5	116.4
87.5°	46.4	43.9	44.5	42.0	42.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)