

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: P835743

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-5HI-30-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835743
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-2-INS-OPL-LD4-5HI-30-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

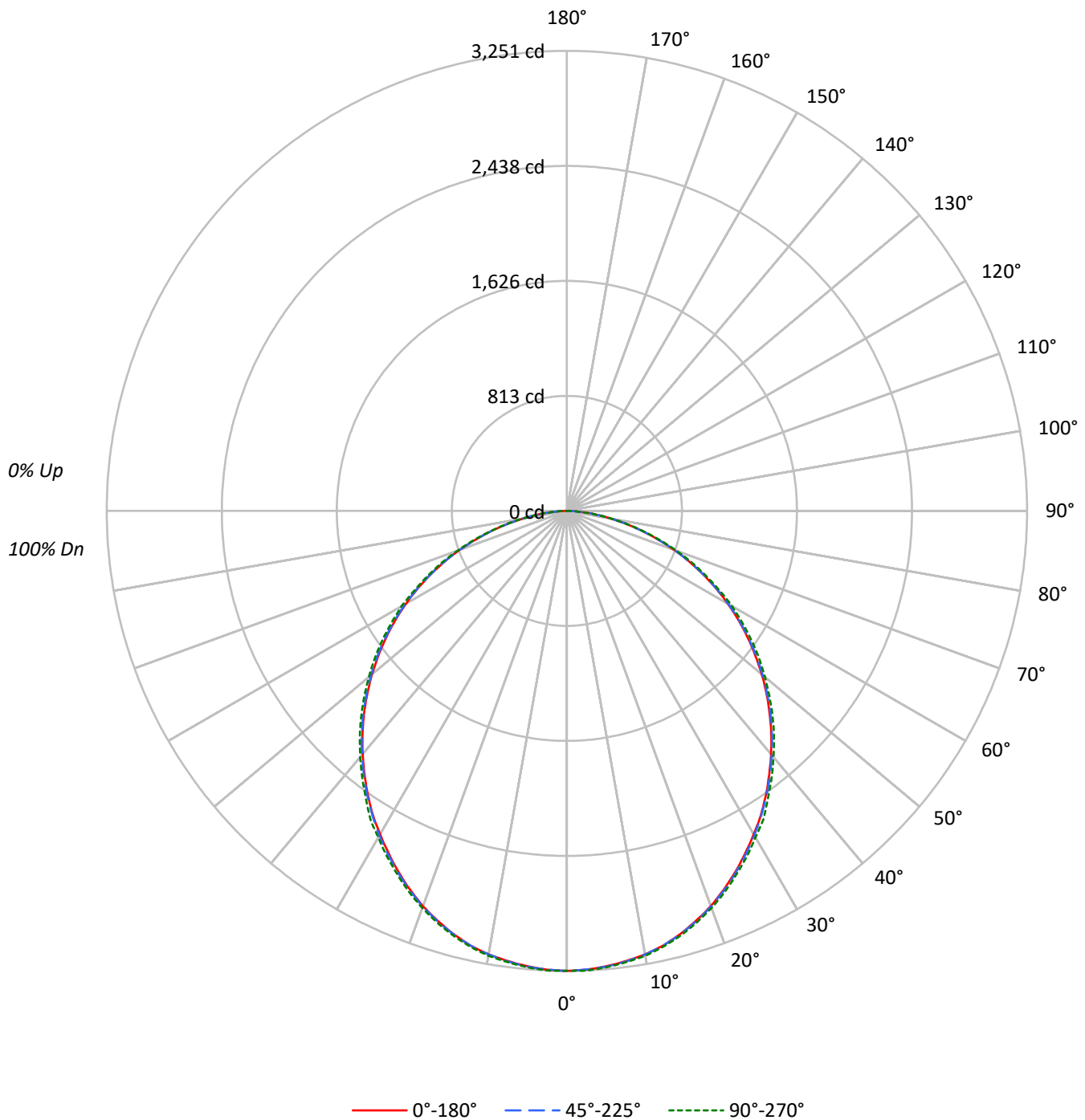
Lumens per Lamp: N/A
Luminaire Lumens: 8783.6 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 110
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	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8747	8747	8747
5°	8725	8732	8743
10°	8697	8698	8724
15°	8625	8630	8655
20°	8513	8523	8553
25°	8359	8379	8417
30°	8202	8229	8279
35°	8052	8072	8136
40°	7882	7908	7979
45°	7709	7743	7822
50°	7523	7556	7644
55°	7309	7344	7464
60°	7067	7096	7255
65°	6758	6779	6908
70°	6344	6349	6486
75°	5766	5744	5878
80°	4954	4933	5016
85°	3844	3782	3804

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.2	3.5
10°-20°	873.8	9.9
20°-30°	1300.8	14.8
30°-40°	1538.3	17.5
40°-50°	1570.4	17.9
50°-60°	1401.5	16.0
60°-70°	1055.6	12.0
70°-80°	588.7	6.7
80°-90°	147.5	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°	2481.7	28.3
0°-40°	4020.0	45.8
0°-60°	6991.9	79.6
0°-90°	8783.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8783.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3251	3251	3251	3251	3251	
5°	3230	3236	3232	3233	3236	307
15°	3096	3099	3098	3101	3107	873
25°	2815	2819	2822	2829	2835	1297
35°	2451	2448	2457	2467	2477	1533
45°	2026	2025	2034	2045	2055	1563
55°	1558	1556	1565	1576	1591	1393
65°	1061	1057	1065	1074	1085	1050
75°	555	550	552	555	565	588
85°	124	121	122	121	123	149
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3250.6	3250.6	3250.6	3250.6	3250.6
2.5°	3245.3	3250.6	3243.9	3245.3	3251.3
5°	3229.8	3235.8	3232.5	3233.2	3236.5
7.5°	3208.3	3216.3	3211.6	3213.0	3216.3
10°	3182.7	3188.7	3183.3	3186.7	3192.8
12.5°	3146.3	3149.0	3146.3	3147.7	3154.4
15°	3095.9	3099.2	3097.9	3100.6	3106.6
17.5°	3036.6	3040.7	3040.0	3045.4	3050.1
20°	2972.7	2973.4	2976.1	2981.4	2986.8
22.5°	2897.3	2899.3	2902.0	2909.4	2914.8
25°	2815.2	2818.6	2821.9	2829.3	2834.7
27.5°	2728.4	2731.8	2736.5	2744.5	2753.3
30°	2639.6	2639.6	2648.3	2656.4	2664.5
32.5°	2550.0	2546.7	2554.8	2564.9	2584.4
35°	2451.1	2448.4	2457.2	2466.6	2476.7
37.5°	2348.1	2346.1	2356.2	2366.3	2375.7
40°	2243.8	2241.1	2251.2	2261.3	2271.4
42.5°	2136.8	2135.5	2144.9	2155.0	2165.8
45°	2025.8	2025.1	2034.5	2044.6	2055.4
47.5°	1912.7	1911.4	1920.8	1931.5	1941.0
50°	1796.9	1795.6	1805.0	1815.8	1825.9
52.5°	1677.8	1677.8	1686.6	1696.0	1711.5
55°	1558.0	1556.0	1565.4	1576.2	1591.0
57.5°	1436.9	1434.2	1442.9	1453.7	1467.2
60°	1313.0	1310.4	1318.4	1329.2	1348.0
62.5°	1187.9	1183.8	1191.9	1202.0	1213.4
65°	1061.3	1057.3	1064.7	1074.1	1084.9
67.5°	934.1	929.4	936.8	944.9	955.0
70°	806.3	801.6	806.9	815.0	824.4
72.5°	679.1	674.4	679.1	682.4	693.9
75°	554.6	549.9	552.5	555.2	565.3
77.5°	433.4	428.7	434.1	435.4	441.5
80°	319.7	315.0	318.3	319.0	323.7
82.5°	216.0	212.0	216.7	213.3	217.4
85°	124.5	121.1	122.5	121.1	123.2
87.5°	49.1	46.4	47.1	44.4	44.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)