

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: P834483

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-2HI-35-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834483
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-LD4-2HI-35-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

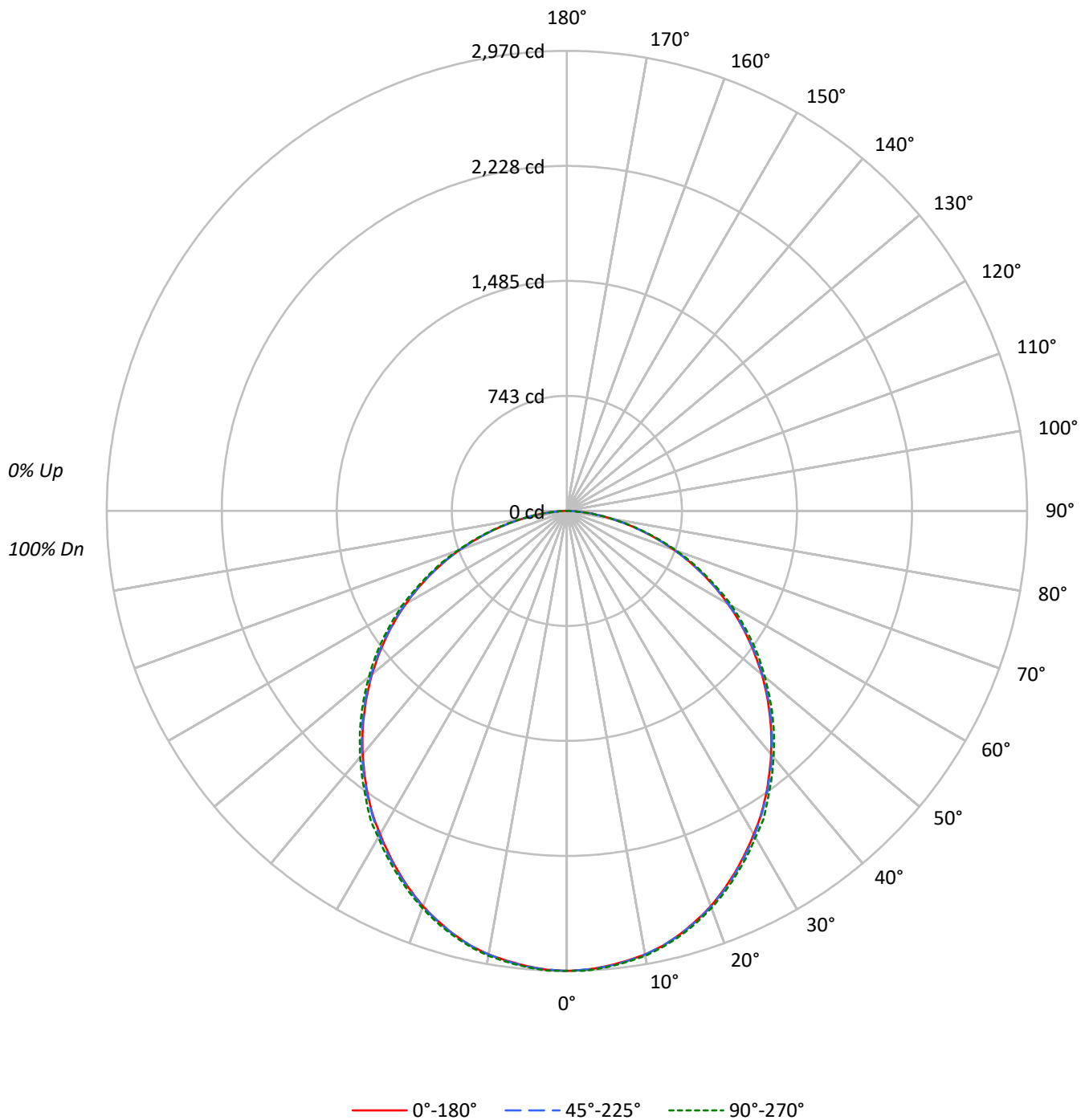
Lumens per Lamp: N/A
Luminaire Lumens: 8024.3 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 88
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	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°	7991	7991	7991
5°	7970	7977	7987
10°	7945	7946	7970
15°	7879	7884	7907
20°	7777	7786	7814
25°	7636	7655	7689
30°	7493	7518	7563
35°	7356	7374	7433
40°	7201	7224	7289
45°	7043	7073	7146
50°	6872	6903	6983
55°	6678	6709	6819
60°	6456	6483	6628
65°	6174	6194	6311
70°	5795	5800	5926
75°	5267	5248	5370
80°	4525	4506	4582
85°	3511	3455	3473



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.6	3.5
10°-20°	798.2	9.9
20°-30°	1188.3	14.8
30°-40°	1405.3	17.5
40°-50°	1434.6	17.9
50°-60°	1280.3	16.0
60°-70°	964.3	12.0
70°-80°	537.8	6.7
80°-90°	134.7	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°	2267.2	28.3
0°-40°	3672.5	45.8
0°-60°	6387.4	79.6
0°-90°	8024.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8024.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2970	2970	2970	2970	2970	
5°	2951	2956	2953	2954	2957	280
15°	2828	2831	2830	2832	2838	797
25°	2572	2575	2578	2585	2590	1185
35°	2239	2237	2245	2253	2263	1400
45°	1851	1850	1859	1868	1878	1428
55°	1423	1422	1430	1440	1454	1272
65°	970	966	973	981	991	959
75°	507	502	505	507	516	537
85°	114	111	112	111	112	137
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2969.6	2969.6	2969.6	2969.6	2969.6
2.5°	2964.7	2969.6	2963.5	2964.7	2970.2
5°	2950.6	2956.1	2953.0	2953.6	2956.7
7.5°	2930.9	2938.3	2934.0	2935.2	2938.3
10°	2907.5	2913.1	2908.1	2911.2	2916.8
12.5°	2874.3	2876.8	2874.3	2875.6	2881.7
15°	2828.2	2831.3	2830.1	2832.5	2838.1
17.5°	2774.1	2777.8	2777.2	2782.1	2786.4
20°	2715.7	2716.3	2718.8	2723.7	2728.6
22.5°	2646.8	2648.7	2651.1	2657.9	2662.8
25°	2571.8	2574.9	2578.0	2584.7	2589.7
27.5°	2492.5	2495.6	2499.9	2507.3	2515.3
30°	2411.4	2411.4	2419.4	2426.7	2434.1
32.5°	2329.6	2326.5	2333.9	2343.1	2360.9
35°	2239.2	2236.8	2244.7	2253.4	2262.6
37.5°	2145.1	2143.3	2152.5	2161.7	2170.4
40°	2049.8	2047.4	2056.6	2065.8	2075.1
42.5°	1952.1	1950.9	1959.5	1968.7	1978.5
45°	1850.6	1850.0	1858.6	1867.9	1877.7
47.5°	1747.3	1746.1	1754.7	1764.6	1773.2
50°	1641.6	1640.4	1649.0	1658.8	1668.0
52.5°	1532.8	1532.8	1540.8	1549.4	1563.5
55°	1423.3	1421.5	1430.1	1439.9	1453.5
57.5°	1312.7	1310.2	1318.2	1328.0	1340.3
60°	1199.5	1197.1	1204.5	1214.3	1231.5
62.5°	1085.2	1081.5	1088.9	1098.1	1108.5
65°	969.6	965.9	972.7	981.3	991.1
67.5°	853.4	849.1	855.8	863.2	872.4
70°	736.6	732.3	737.2	744.6	753.2
72.5°	620.4	616.1	620.4	623.4	633.9
75°	506.6	502.3	504.8	507.2	516.5
77.5°	396.0	391.6	396.6	397.8	403.3
80°	292.0	287.7	290.8	291.4	295.7
82.5°	197.4	193.7	198.0	194.9	198.6
85°	113.7	110.7	111.9	110.7	112.5
87.5°	44.9	42.4	43.0	40.6	40.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)