

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: P834501

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-2HI-50-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834501
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-50-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

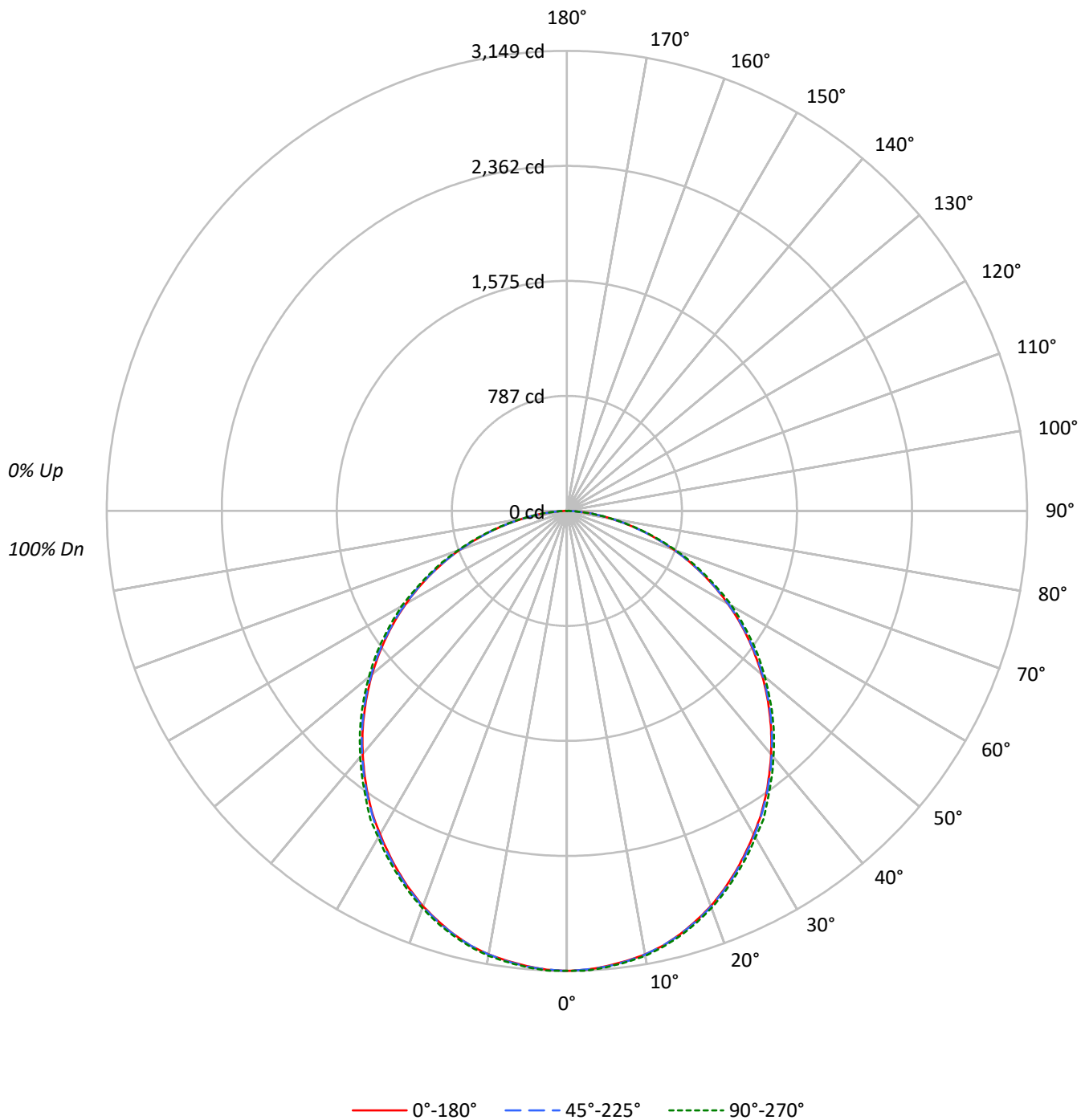
Lumens per Lamp: N/A
Luminaire Lumens: 8507.6 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

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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°	8473	8473	8473
5°	8450	8457	8468
10°	8423	8425	8450
15°	8354	8359	8383
20°	8245	8255	8285
25°	8096	8116	8152
30°	7944	7970	8019
35°	7799	7818	7881
40°	7634	7660	7729
45°	7467	7499	7576
50°	7286	7319	7404
55°	7080	7113	7230
60°	6845	6873	7027
65°	6546	6567	6691
70°	6144	6150	6283
75°	5584	5565	5693
80°	4798	4778	4858
85°	3724	3662	3683

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.5	3.5
10°-20°	846.3	9.9
20°-30°	1259.9	14.8
30°-40°	1490.0	17.5
40°-50°	1521.0	17.9
50°-60°	1357.4	16.0
60°-70°	1022.4	12.0
70°-80°	570.2	6.7
80°-90°	142.8	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°	2403.8	28.3
0°-40°	3893.7	45.8
0°-60°	6772.2	79.6
0°-90°	8507.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8507.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3148	3148	3148	3148	3148	
5°	3128	3134	3131	3132	3135	297
15°	2999	3002	3001	3003	3009	845
25°	2727	2730	2733	2740	2746	1256
35°	2374	2372	2380	2389	2399	1485
45°	1962	1962	1971	1980	1991	1514
55°	1509	1507	1516	1527	1541	1349
65°	1028	1024	1031	1040	1051	1017
75°	537	533	535	538	548	569
85°	121	117	119	117	119	145
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3148.5	3148.5	3148.5	3148.5	3148.5
2.5°	3143.3	3148.5	3142.0	3143.3	3149.2
5°	3128.3	3134.2	3130.9	3131.6	3134.8
7.5°	3107.5	3115.3	3110.7	3112.0	3115.3
10°	3082.7	3088.6	3083.3	3086.6	3092.5
12.5°	3047.5	3050.1	3047.5	3048.8	3055.3
15°	2998.6	3001.9	3000.6	3003.2	3009.0
17.5°	2941.2	2945.1	2944.5	2949.7	2954.3
20°	2879.3	2880.0	2882.6	2887.8	2893.0
22.5°	2806.3	2808.2	2810.9	2818.0	2823.2
25°	2726.8	2730.0	2733.3	2740.5	2745.7
27.5°	2642.7	2645.9	2650.5	2658.3	2666.8
30°	2556.6	2556.6	2565.1	2572.9	2580.7
32.5°	2469.9	2466.7	2474.5	2484.3	2503.2
35°	2374.1	2371.5	2380.0	2389.1	2398.9
37.5°	2274.4	2272.4	2282.2	2292.0	2301.1
40°	2173.3	2170.7	2180.5	2190.3	2200.1
42.5°	2069.7	2068.4	2077.5	2087.3	2097.7
45°	1962.1	1961.5	1970.6	1980.4	1990.8
47.5°	1852.6	1851.3	1860.4	1870.9	1880.0
50°	1740.5	1739.2	1748.3	1758.7	1768.5
52.5°	1625.1	1625.1	1633.6	1642.7	1657.7
55°	1509.1	1507.1	1516.2	1526.7	1541.0
57.5°	1391.7	1389.1	1397.6	1408.0	1421.1
60°	1271.8	1269.2	1277.0	1287.4	1305.7
62.5°	1150.5	1146.6	1154.5	1164.2	1175.3
65°	1028.0	1024.1	1031.3	1040.4	1050.8
67.5°	904.8	900.2	907.4	915.2	925.0
70°	780.9	776.4	781.6	789.4	798.5
72.5°	657.7	653.2	657.7	661.0	672.1
75°	537.1	532.6	535.2	537.8	547.6
77.5°	419.8	415.2	420.5	421.8	427.6
80°	309.6	305.1	308.3	309.0	313.5
82.5°	209.2	205.3	209.9	206.6	210.6
85°	120.6	117.3	118.6	117.3	119.3
87.5°	47.6	45.0	45.6	43.0	43.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)