

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: P835015

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-3LO-40-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835015
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-40-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

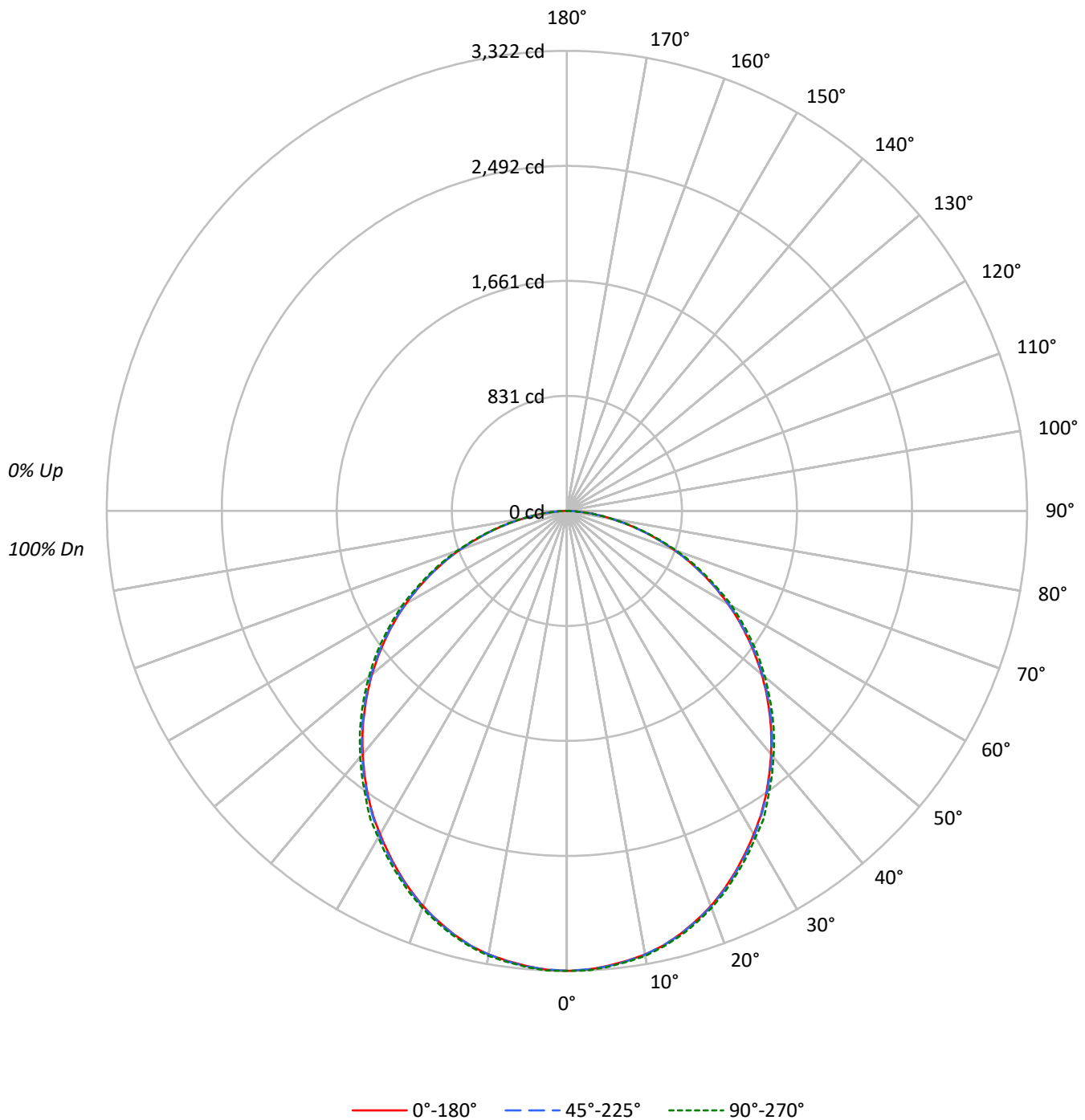
Lumens per Lamp: N/A
Luminaire Lumens: 8974.3 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

1121 Highway 74 South

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10		0
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°	4469	4469	4469
5°	4457	4461	4466
10°	4443	4444	4457
15°	4406	4409	4421
20°	4349	4354	4370
25°	4270	4280	4300
30°	4190	4204	4229
35°	4113	4124	4156
40°	4027	4040	4076
45°	3938	3955	3996
50°	3843	3860	3905
55°	3734	3752	3813
60°	3610	3625	3706
65°	3452	3463	3529
70°	3241	3244	3314
75°	2946	2935	3003
80°	2531	2520	2562
85°	1964	1931	1942

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.8	3.5
10°-20°	892.7	9.9
20°-30°	1329.0	14.8
30°-40°	1571.7	17.5
40°-50°	1604.5	17.9
50°-60°	1431.9	16.0
60°-70°	1078.5	12.0
70°-80°	601.4	6.7
80°-90°	150.7	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°	2535.6	28.3
0°-40°	4107.3	45.8
0°-60°	7143.6	79.6
0°-90°	8974.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8974.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3321	3321	3321	3321	3321	
5°	3300	3306	3303	3303	3307	313
15°	3163	3166	3165	3168	3174	892
25°	2876	2880	2883	2891	2896	1325
35°	2504	2502	2510	2520	2530	1566
45°	2070	2069	2079	2089	2100	1597
55°	1592	1590	1599	1610	1626	1423
65°	1084	1080	1088	1097	1108	1073
75°	567	562	564	567	578	601
85°	127	124	125	124	126	153
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3321.2	3321.2	3321.2	3321.2	3321.2
2.5°	3315.7	3321.2	3314.3	3315.7	3321.9
5°	3299.9	3306.1	3302.6	3303.3	3306.8
7.5°	3277.9	3286.1	3281.3	3282.7	3286.1
10°	3251.8	3257.9	3252.4	3255.9	3262.1
12.5°	3214.6	3217.4	3214.6	3216.0	3222.9
15°	3163.1	3166.5	3165.1	3167.9	3174.1
17.5°	3102.5	3106.7	3106.0	3111.5	3116.3
20°	3037.2	3037.9	3040.7	3046.2	3051.7
22.5°	2960.2	2962.3	2965.0	2972.6	2978.1
25°	2876.3	2879.8	2883.2	2890.8	2896.3
27.5°	2787.6	2791.1	2795.9	2804.1	2813.1
30°	2696.8	2696.8	2705.8	2714.0	2722.3
32.5°	2605.4	2602.0	2610.2	2620.5	2640.5
35°	2504.3	2501.6	2510.5	2520.1	2530.4
37.5°	2399.1	2397.0	2407.4	2417.7	2427.3
40°	2292.5	2289.8	2300.1	2310.4	2320.7
42.5°	2183.2	2181.8	2191.4	2201.8	2212.8
45°	2069.7	2069.1	2078.7	2089.0	2100.0
47.5°	1954.2	1952.8	1962.5	1973.5	1983.1
50°	1835.9	1834.6	1844.2	1855.2	1865.5
52.5°	1714.2	1714.2	1723.2	1732.8	1748.6
55°	1591.8	1589.8	1599.4	1610.4	1625.5
57.5°	1468.1	1465.3	1474.3	1485.3	1499.0
60°	1341.5	1338.8	1347.0	1358.1	1377.3
62.5°	1213.7	1209.5	1217.8	1228.1	1239.8
65°	1084.4	1080.3	1087.8	1097.4	1108.4
67.5°	954.4	949.6	957.2	965.4	975.7
70°	823.8	819.0	824.5	832.7	842.3
72.5°	693.8	689.0	693.8	697.2	708.9
75°	566.6	561.8	564.5	567.3	577.6
77.5°	442.8	438.0	443.5	444.9	451.1
80°	326.6	321.8	325.2	325.9	330.7
82.5°	220.7	216.6	221.4	218.0	222.1
85°	127.2	123.8	125.1	123.8	125.8
87.5°	50.2	47.4	48.1	45.4	45.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)