

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: P835071

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-3HI-27-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835071
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-LD4-3HI-27-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

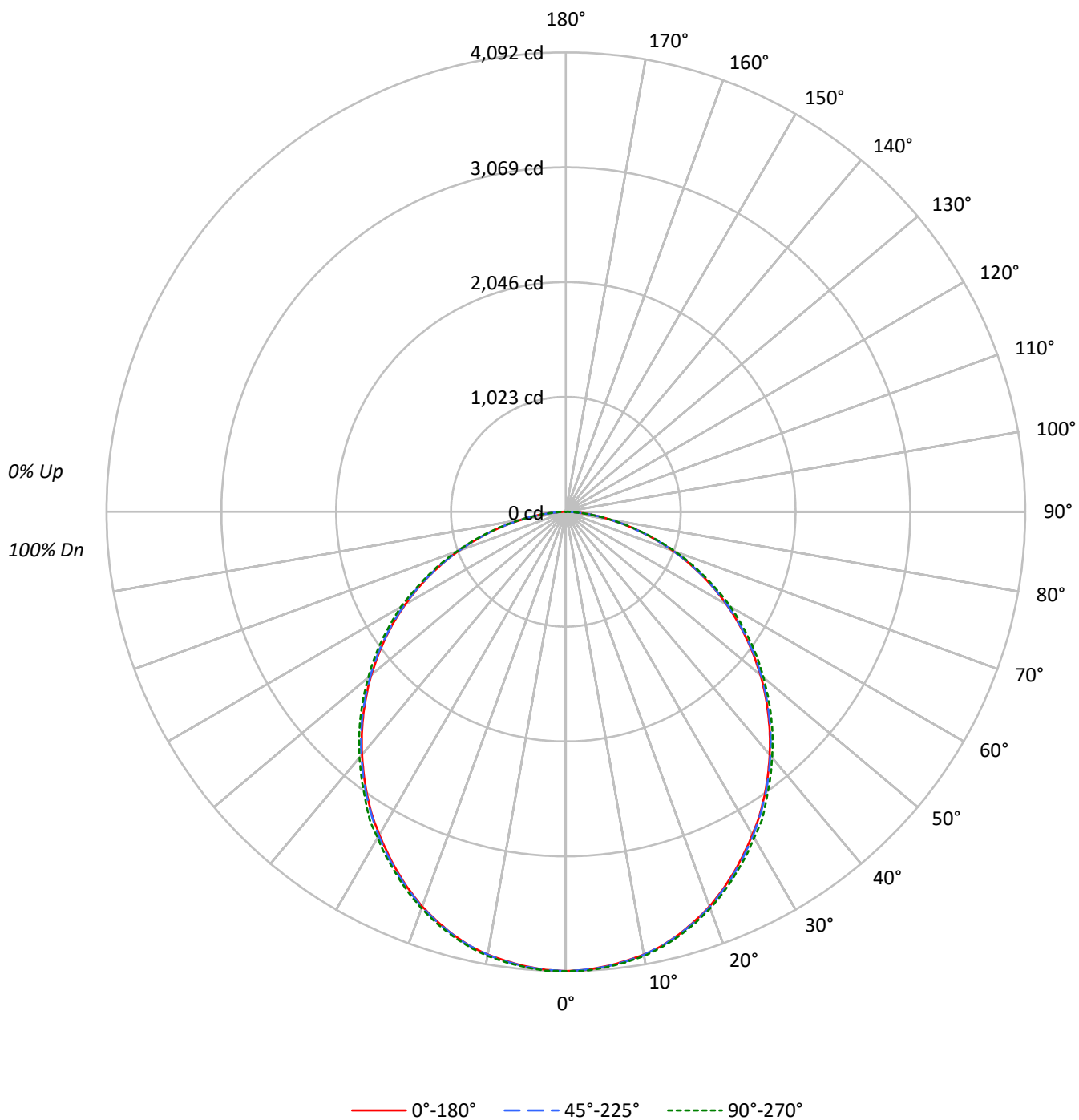
Lumens per Lamp: N/A
Luminaire Lumens: 11056.2 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 132
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°	5505	5505	5505
5°	5491	5495	5502
10°	5473	5475	5491
15°	5428	5432	5447
20°	5358	5364	5383
25°	5261	5273	5297
30°	5162	5179	5211
35°	5068	5080	5121
40°	4961	4977	5022
45°	4852	4873	4923
50°	4735	4756	4811
55°	4600	4622	4698
60°	4448	4466	4566
65°	4253	4267	4348
70°	3993	3996	4082
75°	3629	3616	3699
80°	3118	3105	3157
85°	2419	2381	2393

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.6	3.5
10°-20°	1099.8	9.9
20°-30°	1637.3	14.8
30°-40°	1936.3	17.5
40°-50°	1976.7	17.9
50°-60°	1764.1	16.0
60°-70°	1328.7	12.0
70°-80°	741.0	6.7
80°-90°	185.6	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°	3123.8	28.3
0°-40°	5060.1	45.8
0°-60°	8800.9	79.6
0°-90°	11056.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11056.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4092	4092	4092	4092	4092	
5°	4065	4073	4069	4070	4074	386
15°	3897	3901	3899	3903	3910	1098
25°	3544	3548	3552	3561	3568	1632
35°	3085	3082	3093	3105	3118	1929
45°	2550	2549	2561	2574	2587	1967
55°	1961	1959	1970	1984	2003	1753
65°	1336	1331	1340	1352	1366	1321
75°	698	692	696	699	712	740
85°	157	152	154	152	155	188
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4091.7	4091.7	4091.7	4091.7	4091.7
2.5°	4084.9	4091.7	4083.2	4084.9	4092.5
5°	4065.4	4073.1	4068.8	4069.7	4073.9
7.5°	4038.3	4048.5	4042.6	4044.3	4048.5
10°	4006.1	4013.8	4007.0	4011.2	4018.8
12.5°	3960.4	3963.8	3960.4	3962.1	3970.5
15°	3896.8	3901.1	3899.4	3902.8	3910.4
17.5°	3822.3	3827.4	3826.5	3833.3	3839.2
20°	3741.8	3742.7	3746.1	3752.8	3759.6
22.5°	3646.9	3649.5	3652.9	3662.2	3669.0
25°	3543.6	3547.8	3552.1	3561.4	3568.2
27.5°	3434.3	3438.5	3444.5	3454.6	3465.7
30°	3322.5	3322.5	3333.5	3343.7	3353.8
32.5°	3209.8	3205.6	3215.7	3228.5	3253.0
35°	3085.3	3081.9	3092.9	3104.8	3117.5
37.5°	2955.7	2953.1	2965.8	2978.5	2990.4
40°	2824.4	2821.0	2833.7	2846.4	2859.1
42.5°	2689.7	2688.0	2699.8	2712.5	2726.1
45°	2549.9	2549.0	2560.9	2573.6	2587.2
47.5°	2407.6	2405.9	2417.7	2431.3	2443.2
50°	2261.9	2260.2	2272.0	2285.6	2298.3
52.5°	2111.9	2111.9	2122.9	2134.8	2154.3
55°	1961.1	1958.6	1970.4	1984.0	2002.6
57.5°	1808.6	1805.3	1816.3	1829.8	1846.8
60°	1652.8	1649.4	1659.5	1673.1	1696.8
62.5°	1495.2	1490.1	1500.3	1513.0	1527.4
65°	1335.9	1330.9	1340.2	1352.0	1365.6
67.5°	1175.8	1169.9	1179.2	1189.4	1202.1
70°	1014.9	1008.9	1015.7	1025.9	1037.7
72.5°	854.8	848.8	854.8	859.0	873.4
75°	698.0	692.1	695.5	698.9	711.6
77.5°	545.6	539.6	546.4	548.1	555.7
80°	402.4	396.5	400.7	401.5	407.5
82.5°	271.9	266.8	272.8	268.5	273.6
85°	156.7	152.5	154.2	152.5	155.0
87.5°	61.8	58.5	59.3	55.9	55.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)