

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: P835056

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-4HI-20-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835056
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-LD4-4HI-20-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

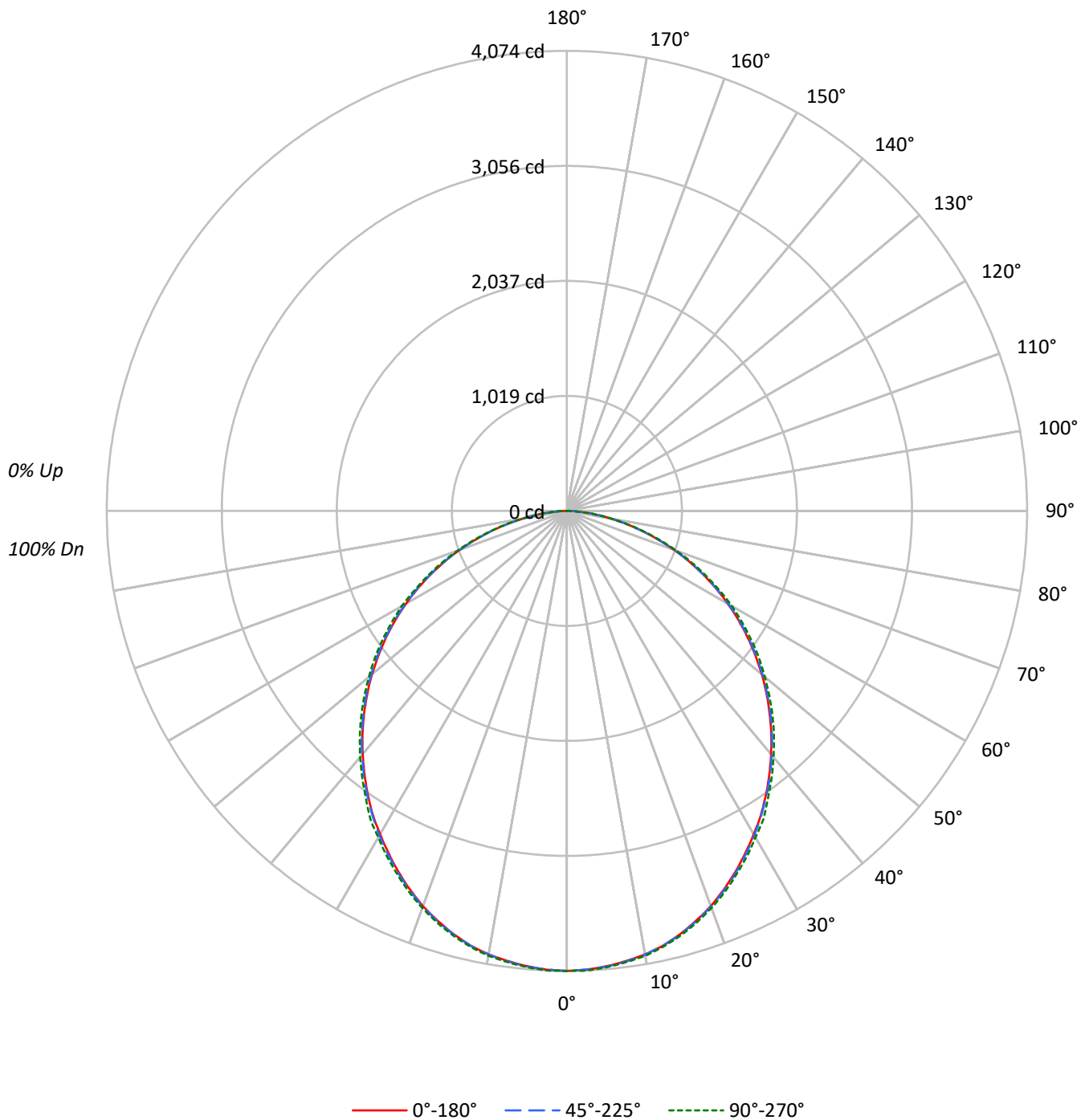
Lumens per Lamp: N/A
Luminaire Lumens: 11007.5 lumens
Efficiency: N/A
Efficacy: 62.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 176
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	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5481	5481	5481
5°	5467	5471	5478
10°	5449	5450	5466
15°	5404	5408	5423
20°	5334	5340	5359
25°	5238	5250	5274
30°	5139	5156	5188
35°	5045	5058	5098
40°	4939	4955	5000
45°	4830	4851	4901
50°	4714	4735	4790
55°	4580	4602	4677
60°	4428	4446	4546
65°	4234	4248	4329
70°	3975	3978	4065
75°	3613	3599	3683
80°	3104	3091	3144
85°	2408	2370	2382

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.9	3.5
10°-20°	1095.0	9.9
20°-30°	1630.1	14.8
30°-40°	1927.8	17.5
40°-50°	1968.0	17.9
50°-60°	1756.3	16.0
60°-70°	1322.8	12.0
70°-80°	737.7	6.7
80°-90°	184.8	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°	3110.0	28.3
0°-40°	5037.8	45.8
0°-60°	8762.1	79.6
0°-90°	11007.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11007.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4074	4074	4074	4074	4074	
5°	4048	4055	4051	4052	4056	384
15°	3880	3884	3882	3886	3893	1093
25°	3528	3532	3536	3546	3552	1625
35°	3072	3068	3079	3091	3104	1921
45°	2539	2538	2550	2562	2576	1958
55°	1952	1950	1962	1975	1994	1745
65°	1330	1325	1334	1346	1360	1315
75°	695	689	692	696	708	737
85°	156	152	154	152	154	187
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4073.6	4073.6	4073.6	4073.6	4073.6
2.5°	4066.9	4073.6	4065.2	4066.9	4074.5
5°	4047.5	4055.1	4050.9	4051.7	4055.9
7.5°	4020.5	4030.6	4024.7	4026.4	4030.6
10°	3988.5	3996.0	3989.3	3993.5	4001.1
12.5°	3942.9	3946.3	3942.9	3944.6	3953.0
15°	3879.7	3883.9	3882.2	3885.6	3893.1
17.5°	3805.4	3810.5	3809.7	3816.4	3822.3
20°	3725.3	3726.2	3729.5	3736.3	3743.0
22.5°	3630.9	3633.4	3636.8	3646.0	3652.8
25°	3528.0	3532.2	3536.4	3545.7	3552.4
27.5°	3419.2	3423.4	3429.3	3439.4	3450.4
30°	3307.8	3307.8	3318.8	3328.9	3339.0
32.5°	3195.7	3191.4	3201.6	3214.2	3238.7
35°	3071.7	3068.3	3079.3	3091.1	3103.7
37.5°	2942.6	2940.1	2952.8	2965.4	2977.2
40°	2811.9	2808.5	2821.2	2833.8	2846.5
42.5°	2677.8	2676.1	2687.9	2700.6	2714.1
45°	2538.6	2537.8	2549.6	2562.3	2575.8
47.5°	2397.0	2395.3	2407.1	2420.6	2432.4
50°	2251.9	2250.2	2262.0	2275.5	2288.2
52.5°	2102.6	2102.6	2113.6	2125.4	2144.8
55°	1952.5	1949.9	1961.8	1975.3	1993.8
57.5°	1800.7	1797.3	1808.3	1821.8	1838.6
60°	1645.5	1642.1	1652.2	1665.7	1689.3
62.5°	1488.6	1483.5	1493.7	1506.3	1520.7
65°	1330.0	1325.0	1334.3	1346.1	1359.6
67.5°	1170.6	1164.7	1174.0	1184.1	1196.8
70°	1010.4	1004.5	1011.2	1021.4	1033.2
72.5°	851.0	845.1	851.0	855.2	869.5
75°	695.0	689.1	692.4	695.8	708.5
77.5°	543.2	537.2	544.0	545.7	553.3
80°	400.6	394.7	398.9	399.8	405.7
82.5°	270.7	265.7	271.6	267.4	272.4
85°	156.0	151.8	153.5	151.8	154.3
87.5°	61.6	58.2	59.0	55.7	55.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)