

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: P834478

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-1LO-35-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834478
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-LD4-1LO-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

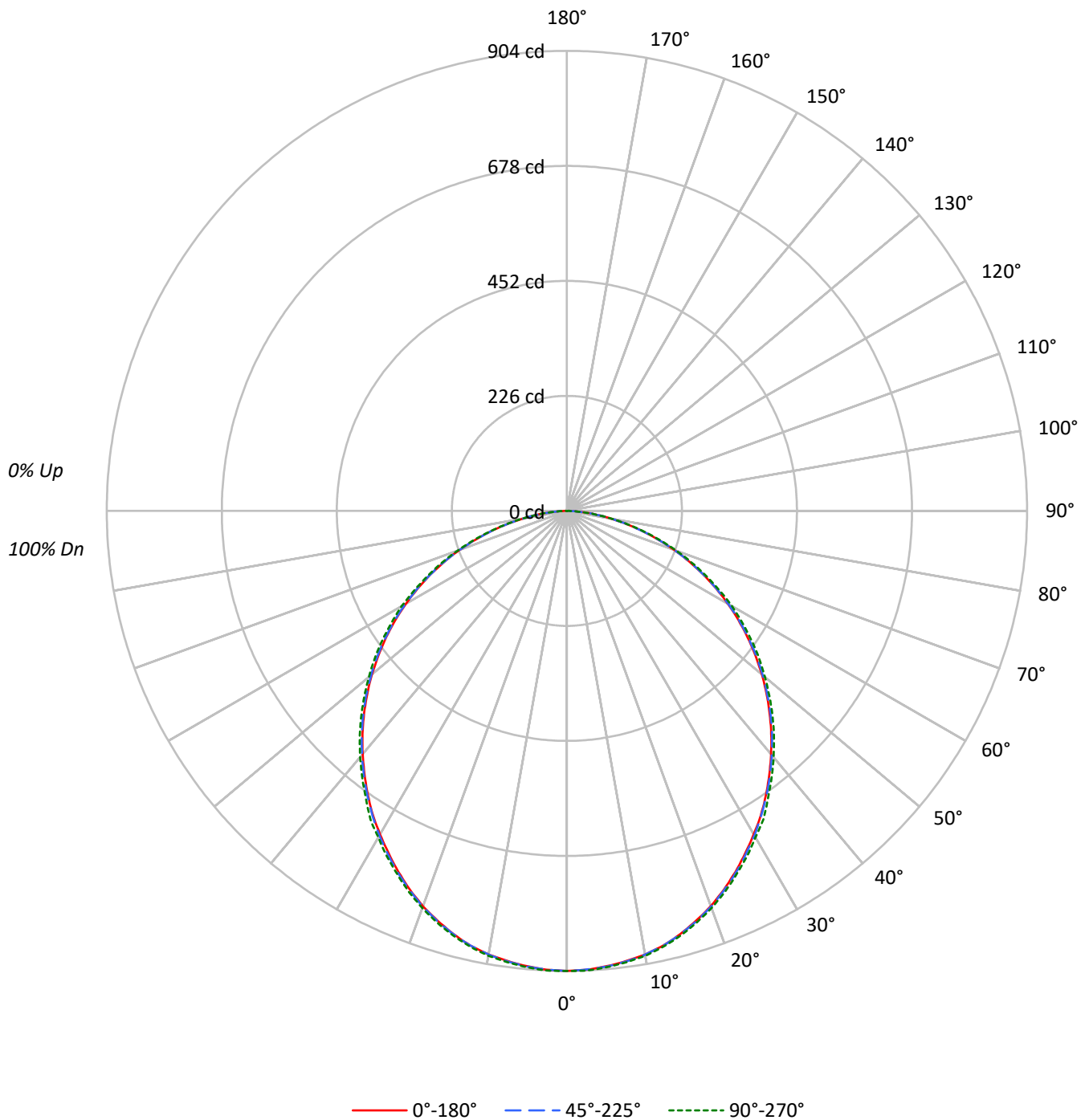
Lumens per Lamp: N/A
Luminaire Lumens: 2442.7 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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
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°	2433	2433	2433
5°	2426	2428	2431
10°	2419	2419	2426
15°	2398	2400	2407
20°	2367	2370	2379
25°	2325	2330	2341
30°	2281	2289	2302
35°	2239	2245	2263
40°	2192	2199	2219
45°	2144	2153	2175
50°	2092	2102	2126
55°	2033	2042	2076
60°	1965	1973	2018
65°	1880	1885	1921
70°	1764	1766	1804
75°	1603	1598	1634
80°	1378	1371	1395
85°	1068	1053	1059

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.4	3.5
10°-20°	243.0	9.9
20°-30°	361.7	14.8
30°-40°	427.8	17.5
40°-50°	436.7	17.9
50°-60°	389.7	16.0
60°-70°	293.6	12.0
70°-80°	163.7	6.7
80°-90°	41.0	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°	690.1	28.3
0°-40°	1117.9	45.8
0°-60°	1944.4	79.6
0°-90°	2442.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2442.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	904	904	904	904	904	
5°	898	900	899	899	900	85
15°	861	862	862	862	864	243
25°	783	784	785	787	788	361
35°	682	681	683	686	689	426
45°	563	563	566	569	572	435
55°	433	433	435	438	442	387
65°	295	294	296	299	302	292
75°	154	153	154	154	157	163
85°	35	34	34	34	34	42
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	904.0	904.0	904.0	904.0	904.0
2.5°	902.5	904.0	902.1	902.5	904.2
5°	898.2	899.9	898.9	899.1	900.1
7.5°	892.2	894.4	893.1	893.5	894.4
10°	885.1	886.8	885.3	886.2	887.9
12.5°	875.0	875.7	875.0	875.3	877.2
15°	860.9	861.9	861.5	862.2	863.9
17.5°	844.5	845.6	845.4	846.9	848.2
20°	826.7	826.9	827.6	829.1	830.6
22.5°	805.7	806.3	807.0	809.1	810.6
25°	782.9	783.8	784.8	786.8	788.3
27.5°	758.7	759.7	761.0	763.2	765.7
30°	734.0	734.0	736.5	738.7	741.0
32.5°	709.2	708.2	710.5	713.3	718.7
35°	681.6	680.9	683.3	685.9	688.8
37.5°	653.0	652.4	655.2	658.1	660.7
40°	624.0	623.2	626.1	628.9	631.7
42.5°	594.2	593.9	596.5	599.3	602.3
45°	563.4	563.2	565.8	568.6	571.6
47.5°	531.9	531.5	534.2	537.2	539.8
50°	499.7	499.3	502.0	505.0	507.8
52.5°	466.6	466.6	469.0	471.6	475.9
55°	433.3	432.7	435.3	438.3	442.4
57.5°	399.6	398.8	401.3	404.3	408.0
60°	365.1	364.4	366.6	369.6	374.9
62.5°	330.3	329.2	331.5	334.3	337.5
65°	295.2	294.0	296.1	298.7	301.7
67.5°	259.8	258.5	260.5	262.8	265.6
70°	224.2	222.9	224.4	226.7	229.3
72.5°	188.8	187.5	188.8	189.8	193.0
75°	154.2	152.9	153.7	154.4	157.2
77.5°	120.5	119.2	120.7	121.1	122.8
80°	88.9	87.6	88.5	88.7	90.0
82.5°	60.1	59.0	60.3	59.3	60.5
85°	34.6	33.7	34.1	33.7	34.3
87.5°	13.7	12.9	13.1	12.4	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)