

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: P834433

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-1LO-40-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834433
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-40-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

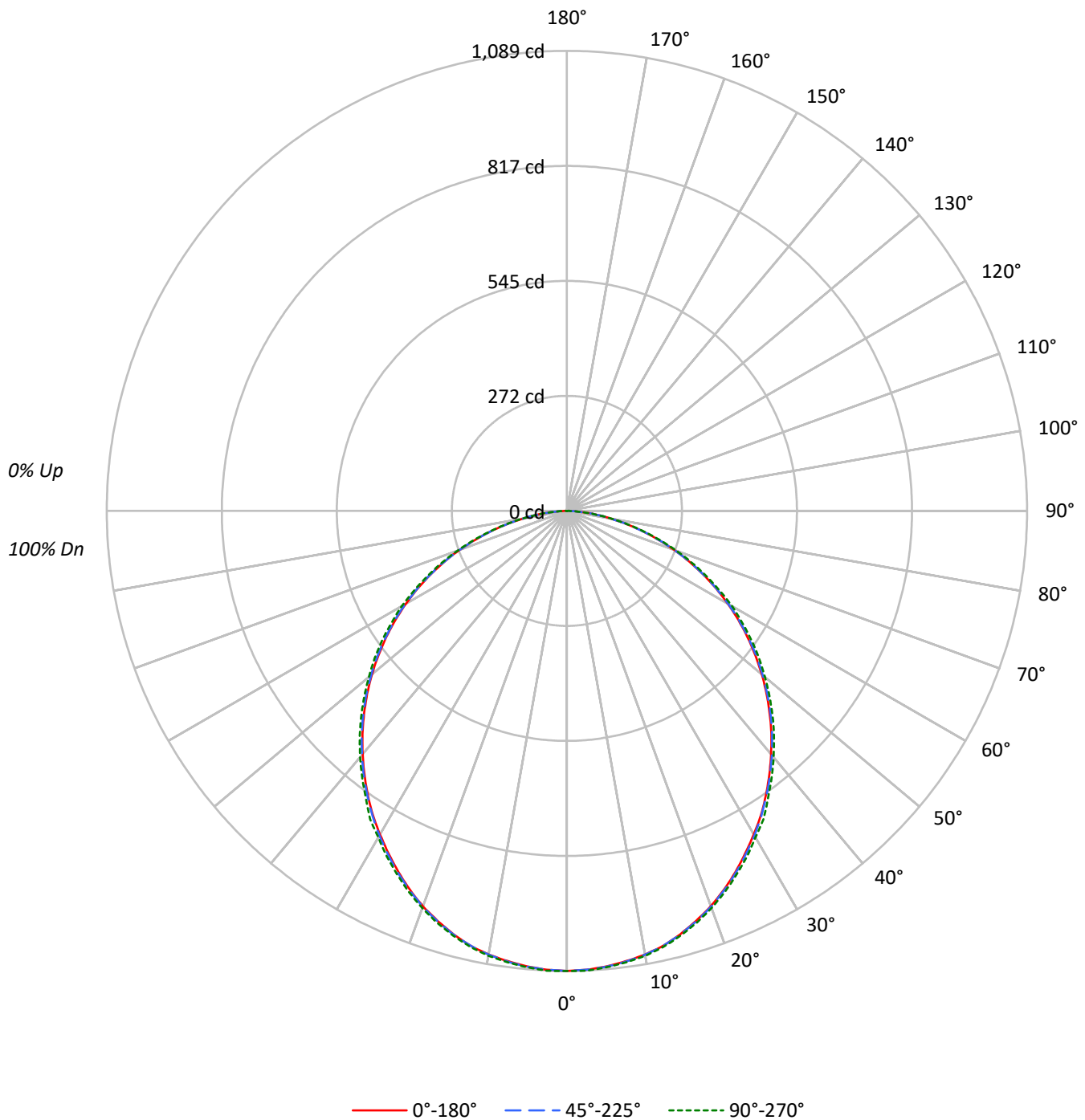
Lumens per Lamp: N/A
Luminaire Lumens: 2943.0 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

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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°	2931	2931	2931
5°	2923	2925	2929
10°	2914	2914	2923
15°	2890	2892	2900
20°	2852	2855	2866
25°	2801	2807	2820
30°	2748	2757	2774
35°	2698	2705	2726
40°	2641	2650	2673
45°	2583	2594	2621
50°	2521	2532	2561
55°	2449	2461	2501
60°	2368	2377	2431
65°	2264	2271	2315
70°	2125	2127	2173
75°	1932	1925	1969
80°	1660	1654	1681
85°	1288	1266	1275

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.9	3.5
10°-20°	292.8	9.9
20°-30°	435.8	14.8
30°-40°	515.4	17.5
40°-50°	526.2	17.9
50°-60°	469.6	16.0
60°-70°	353.7	12.0
70°-80°	197.2	6.7
80°-90°	49.4	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°	831.5	28.3
0°-40°	1346.9	45.8
0°-60°	2342.7	79.6
0°-90°	2943.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2943.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1089	1089	1089	1089	1089	
5°	1082	1084	1083	1083	1084	103
15°	1037	1038	1038	1039	1041	292
25°	943	944	946	948	950	435
35°	821	820	823	826	830	514
45°	679	678	682	685	689	524
55°	522	521	524	528	533	467
65°	356	354	357	360	364	352
75°	186	184	185	186	189	197
85°	42	41	41	41	41	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1089.1	1089.1	1089.1	1089.1	1089.1
2.5°	1087.3	1089.1	1086.9	1087.3	1089.4
5°	1082.1	1084.2	1083.0	1083.3	1084.4
7.5°	1074.9	1077.6	1076.1	1076.5	1077.6
10°	1066.4	1068.4	1066.6	1067.7	1069.7
12.5°	1054.2	1055.1	1054.2	1054.6	1056.9
15°	1037.3	1038.4	1038.0	1038.9	1040.9
17.5°	1017.4	1018.8	1018.6	1020.4	1021.9
20°	996.0	996.2	997.1	998.9	1000.7
22.5°	970.8	971.4	972.3	974.8	976.6
25°	943.2	944.4	945.5	948.0	949.8
27.5°	914.2	915.3	916.9	919.6	922.5
30°	884.4	884.4	887.3	890.0	892.7
32.5°	854.4	853.3	856.0	859.4	865.9
35°	821.3	820.3	823.3	826.4	829.8
37.5°	786.8	786.1	789.5	792.8	796.0
40°	751.8	750.9	754.3	757.7	761.0
42.5°	715.9	715.5	718.7	722.0	725.6
45°	678.7	678.5	681.7	685.1	688.7
47.5°	640.9	640.4	643.6	647.2	650.3
50°	602.1	601.6	604.8	608.4	611.8
52.5°	562.2	562.2	565.1	568.2	573.4
55°	522.0	521.3	524.5	528.1	533.1
57.5°	481.4	480.5	483.5	487.1	491.6
60°	439.9	439.0	441.7	445.4	451.7
62.5°	398.0	396.6	399.4	402.7	406.6
65°	355.6	354.3	356.7	359.9	363.5
67.5°	313.0	311.4	313.9	316.6	320.0
70°	270.1	268.6	270.4	273.1	276.2
72.5°	227.5	225.9	227.5	228.7	232.5
75°	185.8	184.2	185.1	186.0	189.4
77.5°	145.2	143.6	145.4	145.9	147.9
80°	107.1	105.5	106.7	106.9	108.5
82.5°	72.4	71.0	72.6	71.5	72.8
85°	41.7	40.6	41.0	40.6	41.3
87.5°	16.5	15.6	15.8	14.9	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)