

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: P835700

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-3STD-20-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835700
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-2-INS-OPL-LD4-3STD-20-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

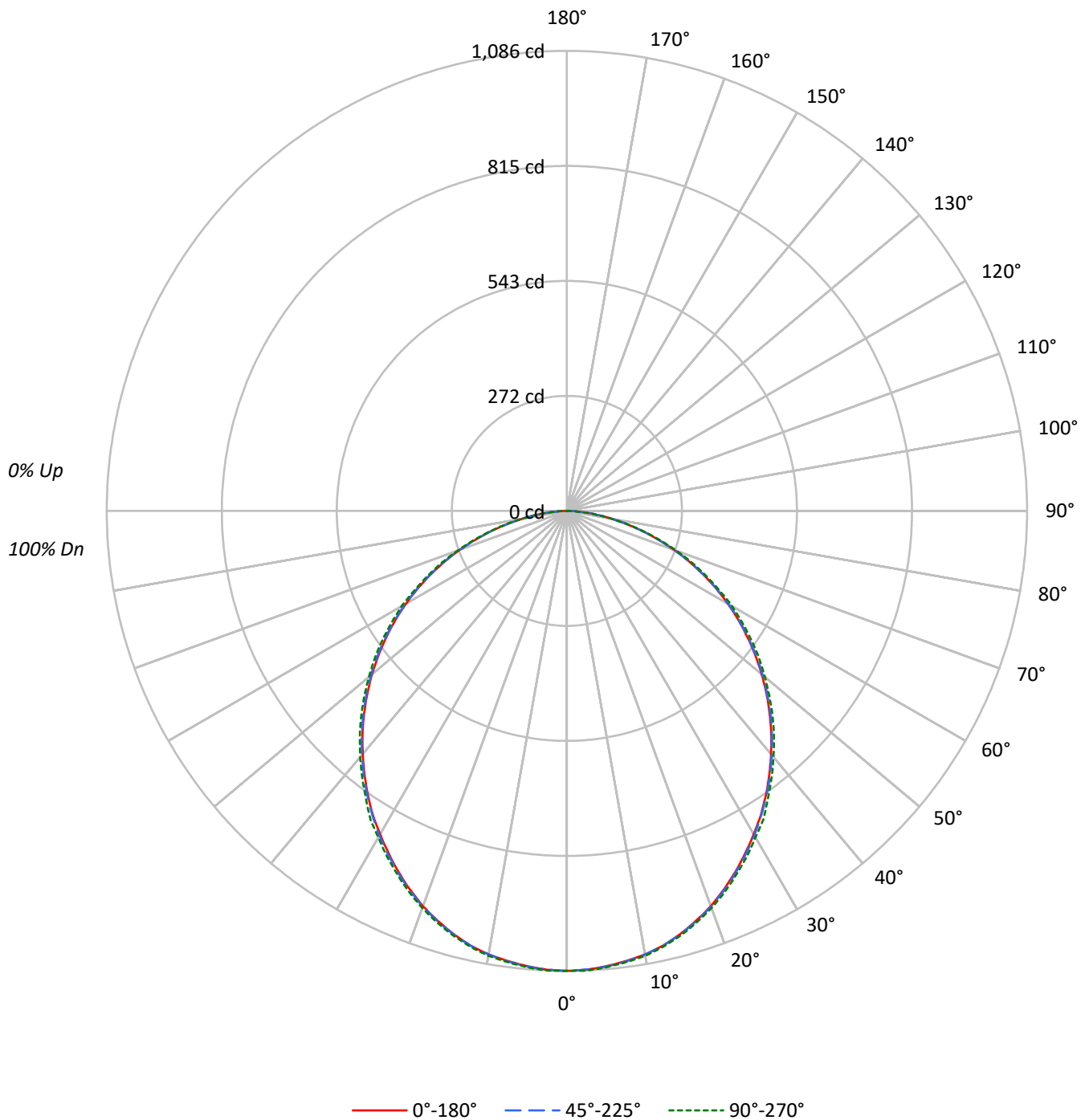
Lumens per Lamp: N/A
Luminaire Lumens: 2934.1 lumens
Efficiency: N/A
Efficacy: 58.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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

Peachtree City, GA 30269



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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	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2922	2922	2922
5°	2914	2917	2920
10°	2905	2906	2914
15°	2881	2883	2891
20°	2844	2847	2857
25°	2792	2799	2812
30°	2740	2749	2765
35°	2690	2696	2718
40°	2633	2642	2665
45°	2575	2586	2613
50°	2513	2524	2553
55°	2441	2453	2494
60°	2361	2370	2423
65°	2257	2265	2308
70°	2119	2120	2167
75°	1926	1919	1963
80°	1655	1647	1675
85°	1284	1263	1269

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.6	3.5
10°-20°	291.9	9.9
20°-30°	434.5	14.8
30°-40°	513.9	17.5
40°-50°	524.6	17.9
50°-60°	468.2	16.0
60°-70°	352.6	12.0
70°-80°	196.6	6.7
80°-90°	49.3	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°	829.0	28.3
0°-40°	1342.8	45.8
0°-60°	2335.6	79.6
0°-90°	2934.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2934.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1086	1086	1086	1086	1086	
5°	1079	1081	1080	1080	1081	102
15°	1034	1035	1035	1036	1038	291
25°	940	942	943	945	947	433
35°	819	818	821	824	827	512
45°	677	676	680	683	687	522
55°	520	520	523	526	532	465
65°	354	353	356	359	362	351
75°	185	184	185	186	189	196
85°	42	40	41	40	41	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1085.8	1085.8	1085.8	1085.8	1085.8
2.5°	1084.0	1085.8	1083.6	1084.0	1086.1
5°	1078.9	1080.9	1079.8	1080.0	1081.1
7.5°	1071.7	1074.4	1072.8	1073.3	1074.4
10°	1063.1	1065.2	1063.4	1064.5	1066.5
12.5°	1051.0	1051.9	1051.0	1051.4	1053.7
15°	1034.1	1035.3	1034.8	1035.7	1037.7
17.5°	1014.4	1015.7	1015.5	1017.3	1018.8
20°	993.0	993.2	994.1	995.9	997.7
22.5°	967.8	968.5	969.4	971.9	973.7
25°	940.4	941.5	942.6	945.1	946.9
27.5°	911.4	912.5	914.1	916.8	919.7
30°	881.7	881.7	884.6	887.3	890.0
32.5°	851.8	850.7	853.4	856.8	863.3
35°	818.8	817.9	820.8	823.9	827.3
37.5°	784.4	783.7	787.1	790.4	793.6
40°	749.5	748.6	752.0	755.4	758.7
42.5°	713.8	713.3	716.5	719.8	723.4
45°	676.7	676.5	679.6	683.0	686.6
47.5°	638.9	638.5	641.6	645.2	648.4
50°	600.2	599.8	602.9	606.5	609.9
52.5°	560.5	560.5	563.4	566.5	571.7
55°	520.4	519.8	522.9	526.5	531.5
57.5°	480.0	479.1	482.0	485.6	490.1
60°	438.6	437.7	440.4	444.0	450.3
62.5°	396.8	395.4	398.1	401.5	405.3
65°	354.5	353.2	355.7	358.8	362.4
67.5°	312.0	310.5	312.9	315.6	319.0
70°	269.3	267.8	269.5	272.2	275.4
72.5°	226.8	225.3	226.8	228.0	231.8
75°	185.2	183.7	184.6	185.5	188.8
77.5°	144.8	143.2	145.0	145.5	147.5
80°	106.8	105.2	106.3	106.6	108.1
82.5°	72.2	70.8	72.4	71.3	72.6
85°	41.6	40.5	40.9	40.5	41.1
87.5°	16.4	15.5	15.7	14.8	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)