

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: P835769

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-2STD-40-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835769
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-LD4-2STD-40-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

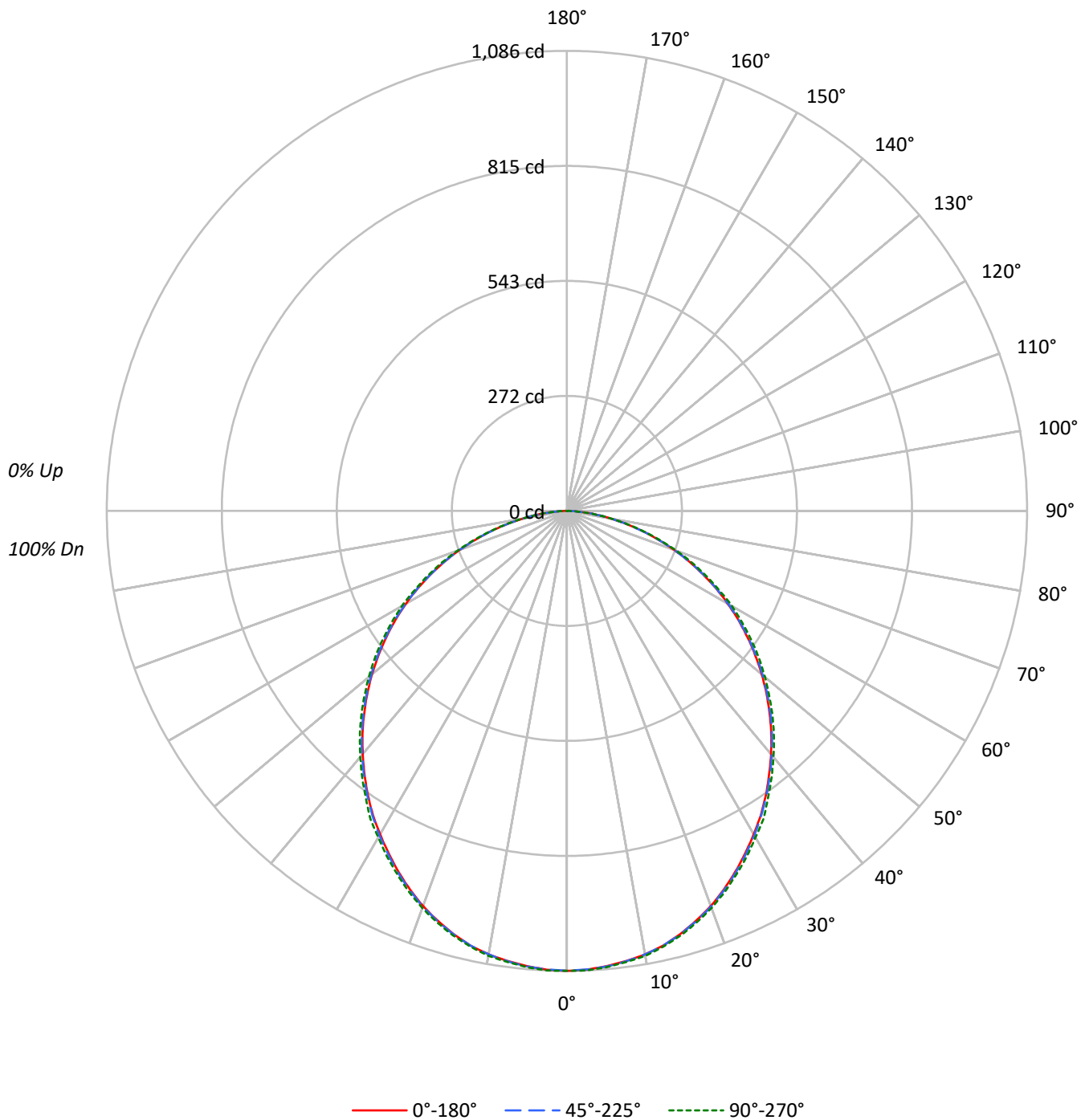
Lumens per Lamp: N/A
Luminaire Lumens: 2933.6 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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	2916	2920
10°	2905	2905	2914
15°	2881	2882	2891
20°	2843	2846	2857
25°	2792	2798	2811
30°	2739	2748	2765
35°	2689	2696	2717
40°	2633	2641	2665
45°	2575	2586	2613
50°	2513	2524	2553
55°	2441	2453	2493
60°	2360	2370	2423
65°	2257	2264	2307
70°	2119	2120	2167
75°	1926	1918	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°	291.8	9.9
20°-30°	434.4	14.8
30°-40°	513.8	17.5
40°-50°	524.5	17.9
50°-60°	468.1	16.0
60°-70°	352.5	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°	828.9	28.3
0°-40°	1342.6	45.8
0°-60°	2335.2	79.6
0°-90°	2933.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2933.6	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	941	942	945	947	433
35°	819	818	821	824	827	512
45°	677	676	680	683	686	522
55°	520	520	523	526	531	465
65°	354	353	356	359	362	351
75°	185	184	184	185	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°	1085.7	1085.7	1085.7	1085.7	1085.7
2.5°	1083.9	1085.7	1083.4	1083.9	1085.9
5°	1078.7	1080.7	1079.6	1079.8	1081.0
7.5°	1071.5	1074.2	1072.6	1073.1	1074.2
10°	1063.0	1065.0	1063.2	1064.3	1066.3
12.5°	1050.8	1051.7	1050.8	1051.3	1053.5
15°	1034.0	1035.1	1034.6	1035.5	1037.6
17.5°	1014.2	1015.5	1015.3	1017.1	1018.7
20°	992.8	993.1	994.0	995.8	997.6
22.5°	967.7	968.3	969.2	971.7	973.5
25°	940.2	941.4	942.5	945.0	946.8
27.5°	911.2	912.4	913.9	916.6	919.6
30°	881.6	881.6	884.5	887.2	889.9
32.5°	851.7	850.6	853.3	856.6	863.1
35°	818.6	817.7	820.7	823.8	827.2
37.5°	784.2	783.6	786.9	790.3	793.5
40°	749.4	748.5	751.9	755.3	758.6
42.5°	713.7	713.2	716.4	719.7	723.3
45°	676.6	676.4	679.5	682.9	686.5
47.5°	638.8	638.4	641.5	645.1	648.3
50°	600.2	599.7	602.9	606.4	609.8
52.5°	560.4	560.4	563.3	566.4	571.6
55°	520.4	519.7	522.8	526.4	531.4
57.5°	479.9	479.0	481.9	485.5	490.0
60°	438.5	437.6	440.3	443.9	450.2
62.5°	396.7	395.4	398.1	401.5	405.3
65°	354.5	353.1	355.6	358.7	362.3
67.5°	312.0	310.4	312.9	315.6	319.0
70°	269.3	267.7	269.5	272.2	275.4
72.5°	226.8	225.2	226.8	227.9	231.7
75°	185.2	183.6	184.5	185.4	188.8
77.5°	144.8	143.2	145.0	145.4	147.5
80°	106.8	105.2	106.3	106.5	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)