

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: P835702

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-4LO-20-120-EDD-90**

Issue Date: 5/16/2024

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

**Test Information**

Test Method: LM-79-08
Report Number: P835702
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-LD4-4LO-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

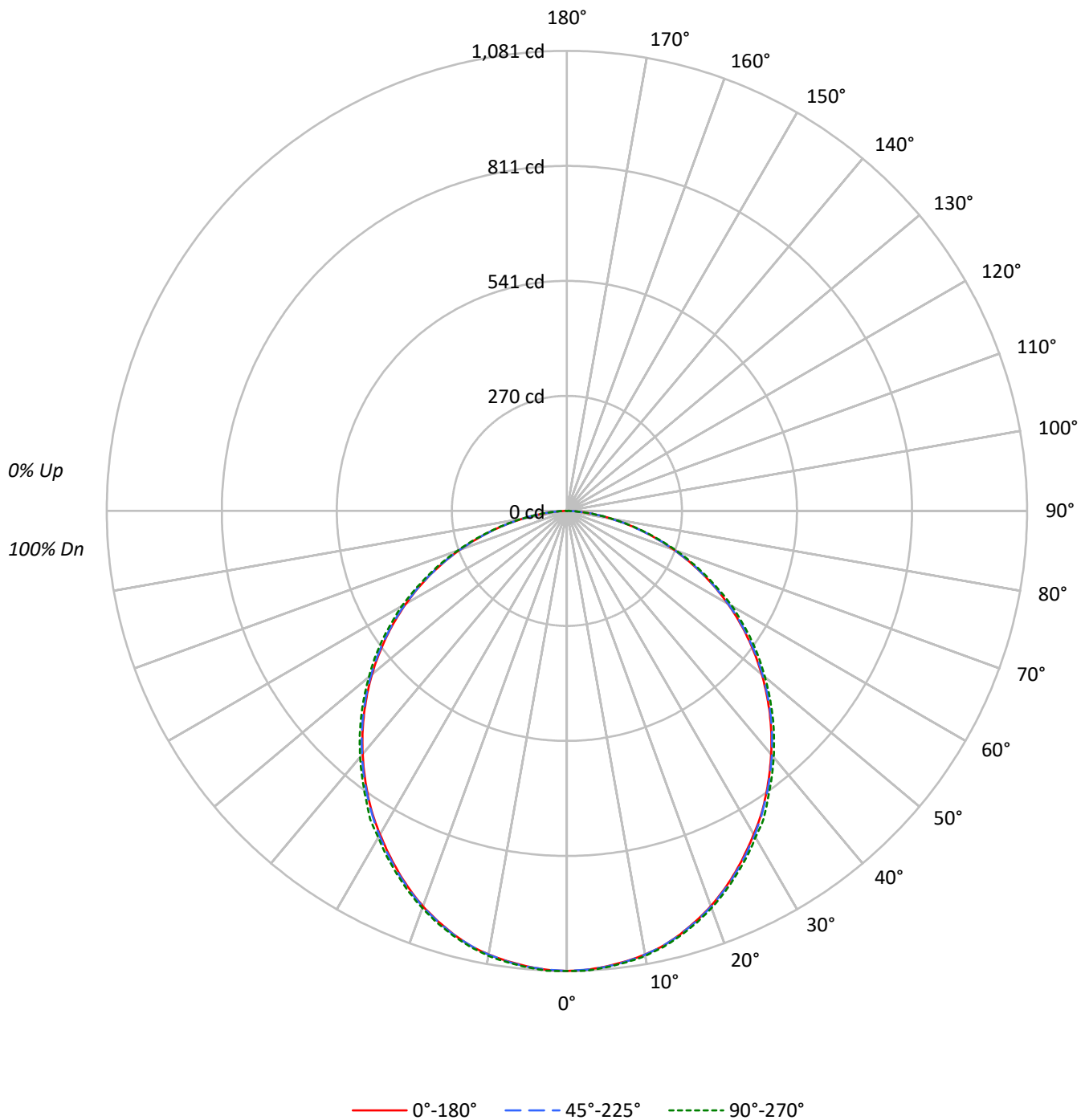
Lumens per Lamp: N/A
Luminaire Lumens: 2921.5 lumens
Efficiency: N/A
Efficacy: 62.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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



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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°	2909	2909	2909
5°	2902	2904	2908
10°	2893	2893	2902
15°	2869	2871	2879
20°	2831	2835	2845
25°	2780	2787	2800
30°	2728	2737	2754
35°	2678	2685	2706
40°	2622	2630	2654
45°	2564	2575	2602
50°	2502	2514	2542
55°	2431	2443	2483
60°	2350	2360	2413
65°	2248	2255	2297
70°	2110	2112	2157
75°	1918	1911	1955
80°	1647	1641	1669
85°	1278	1257	1266

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.2	3.5
10°-20°	290.6	9.9
20°-30°	432.7	14.8
30°-40°	511.6	17.5
40°-50°	522.3	17.9
50°-60°	466.1	16.0
60°-70°	351.1	12.0
70°-80°	195.8	6.7
80°-90°	49.1	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°	825.4	28.3
0°-40°	1337.1	45.8
0°-60°	2325.6	79.6
0°-90°	2921.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2921.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1081	1081	1081	1081	1081	
5°	1074	1076	1075	1075	1076	102
15°	1030	1031	1030	1031	1033	290
25°	936	938	939	941	943	431
35°	815	814	817	820	824	510
45°	674	674	677	680	684	520
55°	518	518	521	524	529	463
65°	353	352	354	357	361	349
75°	184	183	184	185	188	196
85°	41	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°	1081.2	1081.2	1081.2	1081.2	1081.2
2.5°	1079.4	1081.2	1079.0	1079.4	1081.4
5°	1074.3	1076.3	1075.1	1075.4	1076.5
7.5°	1067.1	1069.8	1068.2	1068.7	1069.8
10°	1058.6	1060.6	1058.8	1059.9	1061.9
12.5°	1046.5	1047.4	1046.5	1046.9	1049.2
15°	1029.7	1030.8	1030.4	1031.3	1033.3
17.5°	1010.0	1011.3	1011.1	1012.9	1014.5
20°	988.7	989.0	989.9	991.7	993.4
22.5°	963.7	964.3	965.2	967.7	969.5
25°	936.4	937.5	938.6	941.1	942.9
27.5°	907.5	908.6	910.2	912.9	915.8
30°	877.9	877.9	880.8	883.5	886.2
32.5°	848.2	847.0	849.7	853.1	859.6
35°	815.3	814.4	817.3	820.4	823.8
37.5°	781.0	780.3	783.7	787.1	790.2
40°	746.3	745.4	748.8	752.1	755.5
42.5°	710.7	710.3	713.4	716.8	720.3
45°	673.8	673.6	676.7	680.1	683.6
47.5°	636.2	635.7	638.9	642.4	645.6
50°	597.7	597.2	600.4	603.9	607.3
52.5°	558.1	558.1	561.0	564.1	569.2
55°	518.2	517.5	520.7	524.3	529.2
57.5°	477.9	477.0	479.9	483.5	488.0
60°	436.7	435.8	438.5	442.1	448.4
62.5°	395.1	393.8	396.4	399.8	403.6
65°	353.0	351.7	354.1	357.3	360.8
67.5°	310.7	309.1	311.6	314.3	317.6
70°	268.2	266.6	268.4	271.1	274.2
72.5°	225.9	224.3	225.9	227.0	230.8
75°	184.5	182.9	183.8	184.7	188.0
77.5°	144.2	142.6	144.4	144.8	146.8
80°	106.3	104.8	105.9	106.1	107.7
82.5°	71.9	70.5	72.1	71.0	72.3
85°	41.4	40.3	40.7	40.3	41.0
87.5°	16.3	15.4	15.7	14.8	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)