

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: P735658

Luminaire Tested: **22APR-30-B2750-W2D-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P735658  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P708781)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 22APR-30-B2750-W2D-2700K  
Description: 2X2 3000 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 2700K CCT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

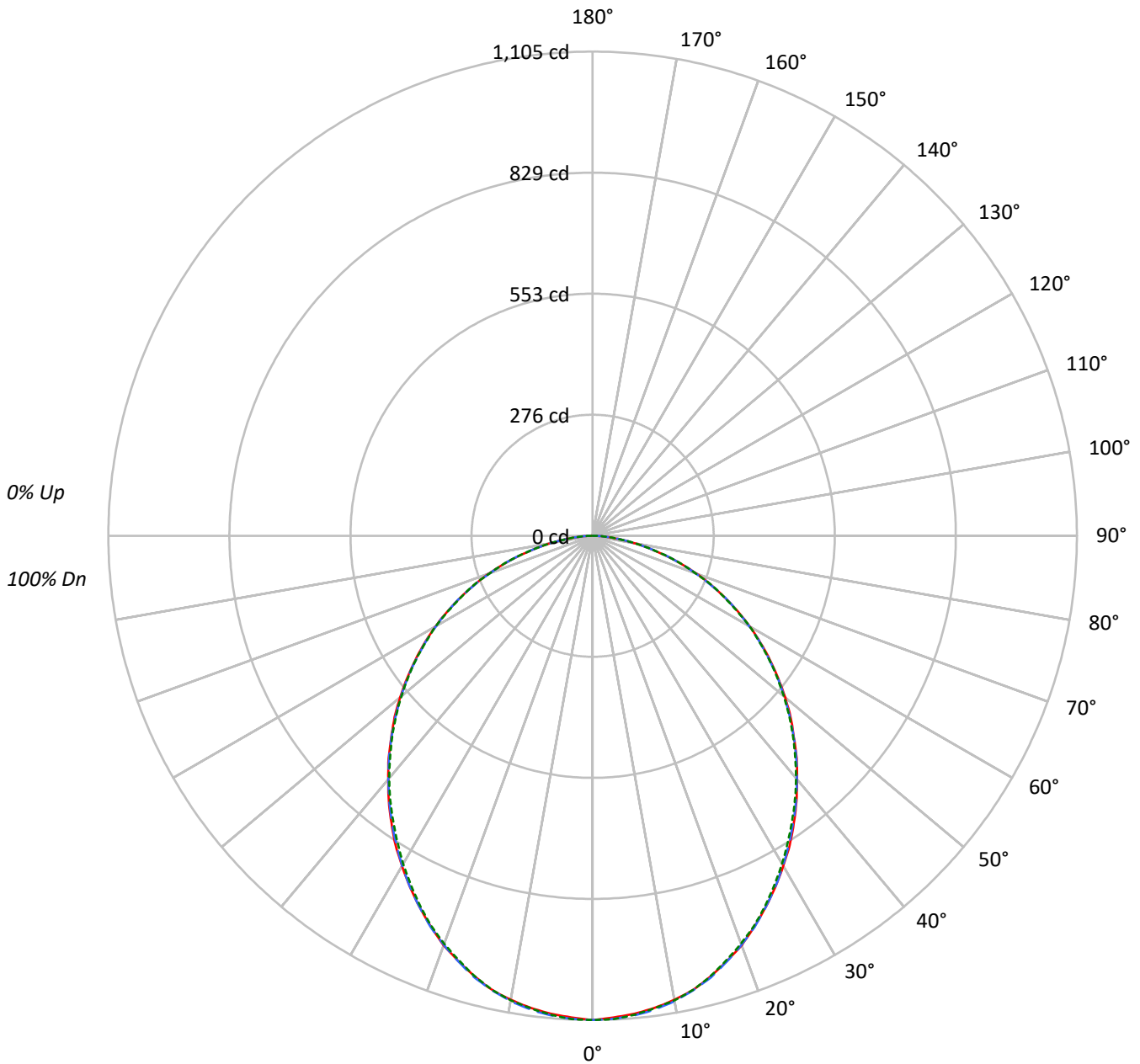
Lumens per Lamp: N/A  
Luminaire Lumens: 2823.0 lumens  
Efficiency: N/A  
Efficacy: 85.5 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
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	95	92	94	91	89	90	88	86	84																			
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71																			
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60																			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51																			
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45																			
6	71	58	49	43	69	57	48	42	55	47	42	53	47	42	52	46	41	39																			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35																			
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31																			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28																			
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2974	2974	2974
5°	2958	2968	2964
10°	2938	2946	2942
15°	2900	2906	2898
20°	2847	2845	2836
25°	2776	2776	2767
30°	2703	2701	2686
35°	2630	2622	2607
40°	2550	2547	2536
45°	2472	2469	2460
50°	2400	2390	2383
55°	2316	2305	2305
60°	2230	2222	2227
65°	2113	2118	2104
70°	1976	1963	1963
75°	1761	1770	1770
80°	1489	1489	1502
85°	1130	1130	1155



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.2	3.7
10°-20°	293.6	10.4
20°-30°	430.5	15.2
30°-40°	499.4	17.7
40°-50°	500.7	17.7
50°-60°	440.4	15.6
60°-70°	328.6	11.6
70°-80°	180.8	6.4
80°-90°	44.7	1.6
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°	828.3	29.3
0°-40°	1327.7	47.0
0°-60°	2268.8	80.4
0°-90°	2823.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2823.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1105	1105	1105	1105	1105	
5°	1095	1099	1099	1099	1097	104
15°	1041	1045	1043	1042	1040	293
25°	935	939	935	934	932	431
35°	800	801	798	796	794	501
45°	650	652	649	648	646	502
55°	494	494	491	492	491	442
65°	332	332	333	331	330	329
75°	169	170	170	169	170	181
85°	37	37	37	37	37	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1105.0	1105.0	1105.0	1105.0	1105.0
2.5°	1100.4	1104.2	1103.4	1105.8	1104.2
5°	1095.1	1098.9	1098.9	1098.9	1097.3
7.5°	1086.6	1090.5	1090.5	1090.5	1087.4
10°	1075.3	1079.1	1078.3	1078.3	1076.7
12.5°	1061.5	1063.8	1062.2	1062.2	1061.5
15°	1040.9	1045.4	1043.2	1041.6	1040.2
17.5°	1018.0	1022.6	1018.8	1018.0	1015.7
20°	994.3	997.4	993.5	993.5	990.5
22.5°	965.3	968.3	966.1	964.6	963.0
25°	934.8	938.6	934.8	934.0	931.8
27.5°	903.5	906.5	902.7	899.7	898.2
30°	870.0	872.2	869.2	866.9	864.5
32.5°	837.1	837.1	834.0	831.8	828.8
35°	800.5	801.3	798.3	795.9	793.6
37.5°	763.9	765.4	762.4	760.1	758.5
40°	725.8	727.2	725.0	722.6	722.0
42.5°	689.1	689.1	687.6	685.2	683.8
45°	649.5	651.7	648.7	647.9	646.3
47.5°	612.8	612.8	609.7	608.1	608.1
50°	573.2	574.6	570.8	570.0	569.3
52.5°	533.4	532.6	531.8	531.2	530.4
55°	493.7	494.5	491.4	492.2	491.4
57.5°	454.1	453.3	452.5	451.8	451.0
60°	414.3	413.7	412.9	412.1	413.7
62.5°	373.1	373.9	371.7	373.9	370.9
65°	331.9	331.9	332.7	331.1	330.5
67.5°	292.3	292.3	290.7	290.7	293.8
70°	251.1	251.8	249.5	252.6	249.5
72.5°	210.6	211.4	210.6	209.8	211.4
75°	169.4	170.2	170.2	168.6	170.2
77.5°	132.0	132.8	132.0	131.2	132.0
80°	96.1	96.9	96.1	95.3	96.9
82.5°	64.0	64.8	64.0	64.0	64.8
85°	36.6	37.4	36.6	36.6	37.4
87.5°	14.5	15.3	15.3	15.3	15.3
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)