

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: P735686

Luminaire Tested: **22APR-34-B2750-W2D-CP250-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P735686  
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-34-B2750-W2D-CP250-4000K  
Description: 2X2 3400 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 4000K CCT, AND CP250 LENS

Light Source: -  
Ballast/Driver: -

**Summary**

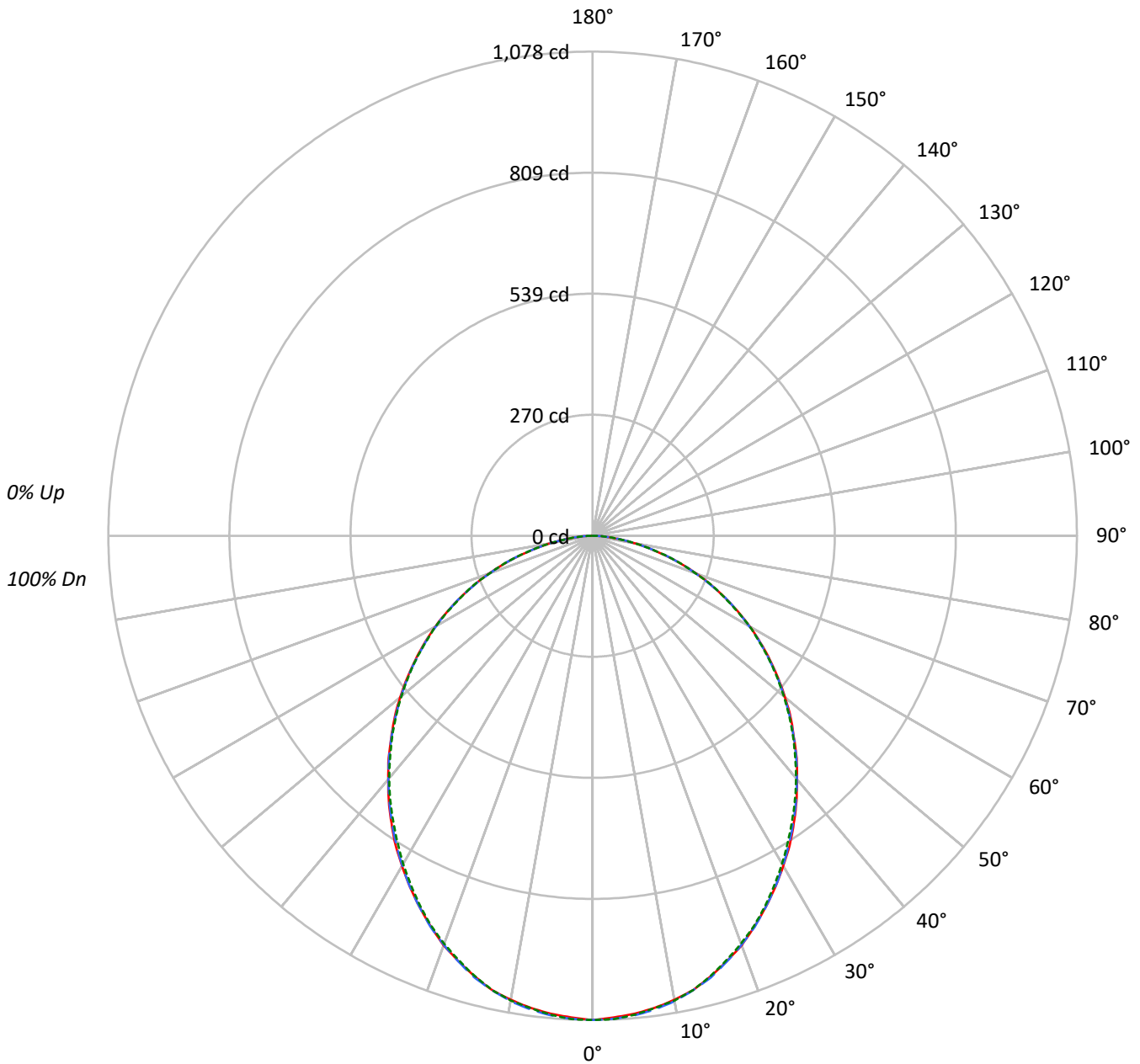
Lumens per Lamp: N/A  
Luminaire Lumens: 2754.0 lumens  
Efficiency: N/A  
Efficacy: 72.5 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 38  
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°	2901	2901	2901
5°	2886	2896	2892
10°	2866	2875	2870
15°	2829	2835	2827
20°	2778	2776	2767
25°	2708	2708	2699
30°	2637	2635	2621
35°	2565	2558	2543
40°	2487	2485	2474
45°	2411	2408	2399
50°	2341	2331	2325
55°	2259	2249	2249
60°	2175	2168	2172
65°	2062	2067	2053
70°	1928	1915	1915
75°	1719	1726	1726
80°	1454	1454	1464
85°	1102	1102	1127



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.6	3.7
10°-20°	286.4	10.4
20°-30°	420.0	15.2
30°-40°	487.2	17.7
40°-50°	488.5	17.7
50°-60°	429.6	15.6
60°-70°	320.6	11.6
70°-80°	176.4	6.4
80°-90°	43.7	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°	808.0	29.3
0°-40°	1295.2	47.0
0°-60°	2213.3	80.4
0°-90°	2754.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2754.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1078	1078	1078	1078	1078	
5°	1068	1072	1072	1072	1070	101
15°	1016	1020	1018	1016	1015	286
25°	912	916	912	911	909	420
35°	781	782	779	776	774	488
45°	634	636	633	632	630	490
55°	482	482	479	480	479	431
65°	324	324	325	323	322	321
75°	165	166	166	164	166	176
85°	36	36	36	36	36	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1078.0	1078.0	1078.0	1078.0	1078.0
2.5°	1073.5	1077.2	1076.4	1078.7	1077.2
5°	1068.3	1072.0	1072.0	1072.0	1070.5
7.5°	1060.1	1063.8	1063.8	1063.8	1060.8
10°	1049.0	1052.7	1052.0	1052.0	1050.4
12.5°	1035.6	1037.8	1036.2	1036.2	1035.6
15°	1015.5	1019.9	1017.7	1016.1	1014.7
17.5°	993.1	997.6	993.9	993.1	990.9
20°	970.0	973.0	969.3	969.3	966.3
22.5°	941.7	944.7	942.5	941.1	939.5
25°	911.9	915.7	911.9	911.2	909.0
27.5°	881.4	884.4	880.6	877.7	876.3
30°	848.7	850.9	847.9	845.7	843.4
32.5°	816.6	816.6	813.7	811.5	808.5
35°	780.9	781.7	778.8	776.4	774.2
37.5°	745.3	746.7	743.7	741.5	740.0
40°	708.0	709.5	707.3	705.0	704.3
42.5°	672.2	672.2	670.8	668.5	667.1
45°	633.6	635.8	632.8	632.0	630.5
47.5°	597.8	597.8	594.8	593.3	593.3
50°	559.1	560.6	556.8	556.1	555.4
52.5°	520.4	519.6	518.8	518.2	517.4
55°	481.6	482.4	479.4	480.2	479.4
57.5°	443.0	442.2	441.4	440.8	440.0
60°	404.2	403.5	402.8	402.0	403.5
62.5°	364.0	364.8	362.6	364.8	361.8
65°	323.8	323.8	324.6	323.0	322.4
67.5°	285.2	285.2	283.6	283.6	286.6
70°	245.0	245.6	243.4	246.4	243.4
72.5°	205.4	206.2	205.4	204.7	206.2
75°	165.3	166.0	166.0	164.5	166.0
77.5°	128.8	129.6	128.8	128.0	128.8
80°	93.8	94.5	93.8	93.0	94.5
82.5°	62.5	63.2	62.5	62.5	63.2
85°	35.7	36.5	35.7	35.7	36.5
87.5°	14.2	14.9	14.9	14.9	14.9
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)