

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: P735685

Luminaire Tested: **22APR-34-B2750-W2D-CP250-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P735685  
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-CP250-3500K  
Description: 2X2 3400 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 3500K CCT, AND CP250 LENS

Light Source: -  
Ballast/Driver: -

**Summary**

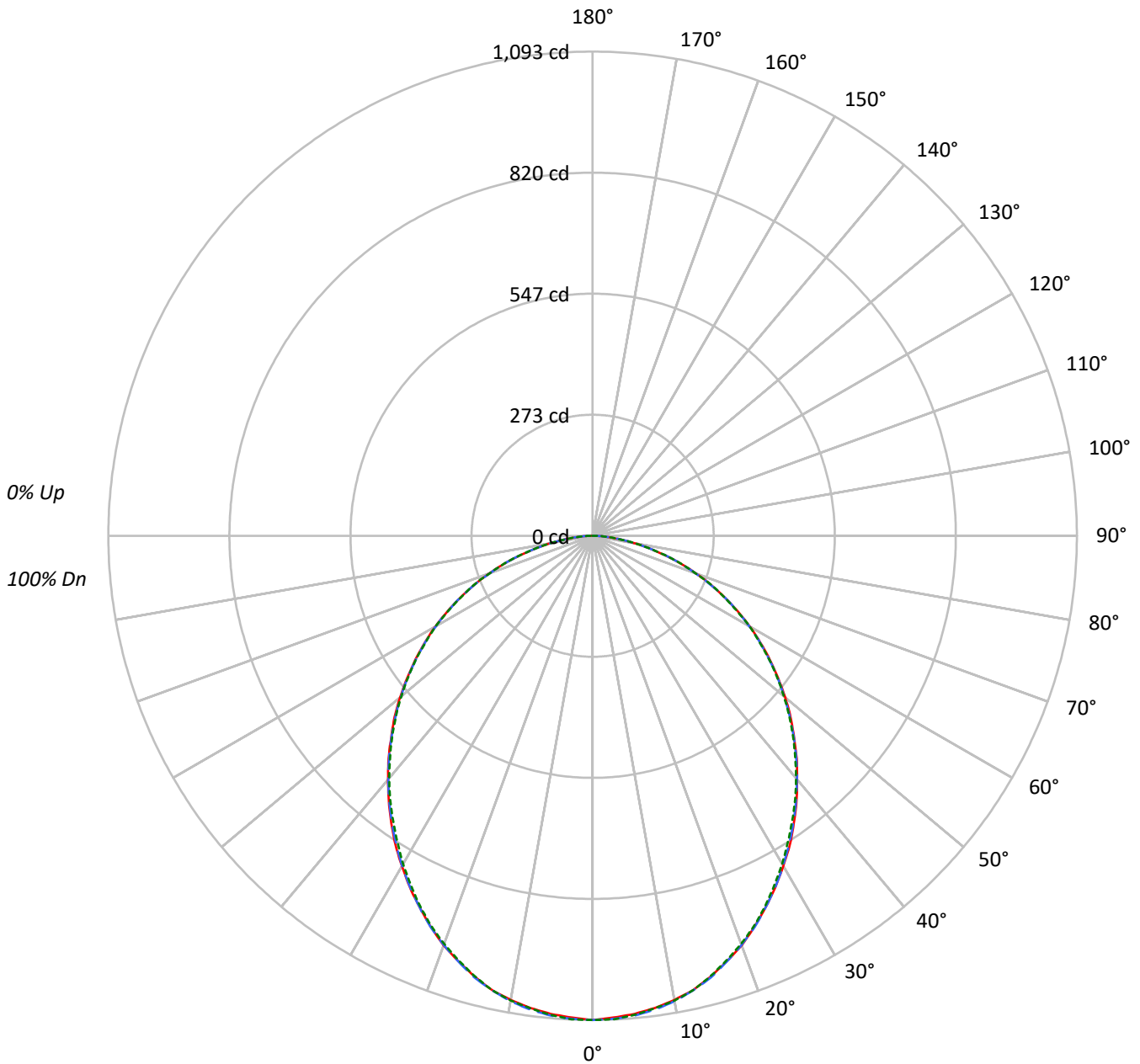
Lumens per Lamp: N/A  
Luminaire Lumens: 2793.0 lumens  
Efficiency: N/A  
Efficacy: 73.5 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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°	2942	2942	2942
5°	2927	2937	2933
10°	2907	2915	2911
15°	2869	2875	2867
20°	2817	2815	2806
25°	2746	2746	2737
30°	2674	2672	2658
35°	2602	2595	2579
40°	2523	2520	2509
45°	2445	2442	2433
50°	2374	2364	2358
55°	2291	2281	2281
60°	2206	2199	2203
65°	2091	2096	2082
70°	1955	1943	1943
75°	1743	1751	1751
80°	1474	1474	1486
85°	1118	1118	1142



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.1	3.7
10°-20°	290.5	10.4
20°-30°	425.9	15.2
30°-40°	494.1	17.7
40°-50°	495.4	17.7
50°-60°	435.7	15.6
60°-70°	325.1	11.6
70°-80°	178.9	6.4
80°-90°	44.3	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°	819.5	29.3
0°-40°	1313.6	47.0
0°-60°	2244.7	80.4
0°-90°	2793.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2793.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1093	1093	1093	1093	1093	
5°	1083	1087	1087	1087	1086	103
15°	1030	1034	1032	1030	1029	290
25°	925	929	925	924	922	426
35°	792	793	790	787	785	495
45°	643	645	642	641	639	497
55°	488	489	486	487	486	437
65°	328	328	329	328	327	326
75°	168	168	168	167	168	179
85°	36	37	36	36	37	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1093.2	1093.2	1093.2	1093.2	1093.2
2.5°	1088.7	1092.5	1091.7	1094.0	1092.5
5°	1083.4	1087.2	1087.2	1087.2	1085.7
7.5°	1075.1	1078.9	1078.9	1078.9	1075.9
10°	1063.8	1067.6	1066.8	1066.8	1065.3
12.5°	1050.3	1052.5	1050.9	1050.9	1050.3
15°	1029.9	1034.3	1032.1	1030.5	1029.1
17.5°	1007.2	1011.7	1007.9	1007.2	1004.9
20°	983.8	986.8	983.0	983.0	980.0
22.5°	955.0	958.0	955.8	954.4	952.8
25°	924.9	928.6	924.9	924.1	921.9
27.5°	893.9	896.9	893.1	890.1	888.7
30°	860.7	862.9	859.9	857.7	855.4
32.5°	828.2	828.2	825.2	823.0	820.0
35°	792.0	792.8	789.8	787.4	785.2
37.5°	755.8	757.3	754.3	752.0	750.5
40°	718.1	719.5	717.3	714.9	714.3
42.5°	681.8	681.8	680.3	678.0	676.5
45°	642.6	644.8	641.8	641.0	639.4
47.5°	606.3	606.3	603.2	601.7	601.7
50°	567.1	568.5	564.7	563.9	563.3
52.5°	527.7	527.0	526.2	525.5	524.7
55°	488.4	489.2	486.2	487.0	486.2
57.5°	449.2	448.5	447.7	447.0	446.2
60°	409.9	409.3	408.5	407.7	409.3
62.5°	369.2	369.9	367.7	369.9	366.9
65°	328.4	328.4	329.2	327.6	327.0
67.5°	289.2	289.2	287.6	287.6	290.7
70°	248.5	249.1	246.9	249.9	246.9
72.5°	208.4	209.1	208.4	207.6	209.1
75°	167.6	168.4	168.4	166.8	168.4
77.5°	130.6	131.4	130.6	129.8	130.6
80°	95.1	95.9	95.1	94.3	95.9
82.5°	63.4	64.1	63.4	63.4	64.1
85°	36.2	37.0	36.2	36.2	37.0
87.5°	14.4	15.2	15.2	15.2	15.2
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)