

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: P735669

Luminaire Tested: **22APR-30-B2750-W2D-CP250-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P735669  
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-CP250-3000K  
Description: 2X2 3000 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 3000K CCT, AND CP250 LENS

Light Source: -  
Ballast/Driver: -

**Summary**

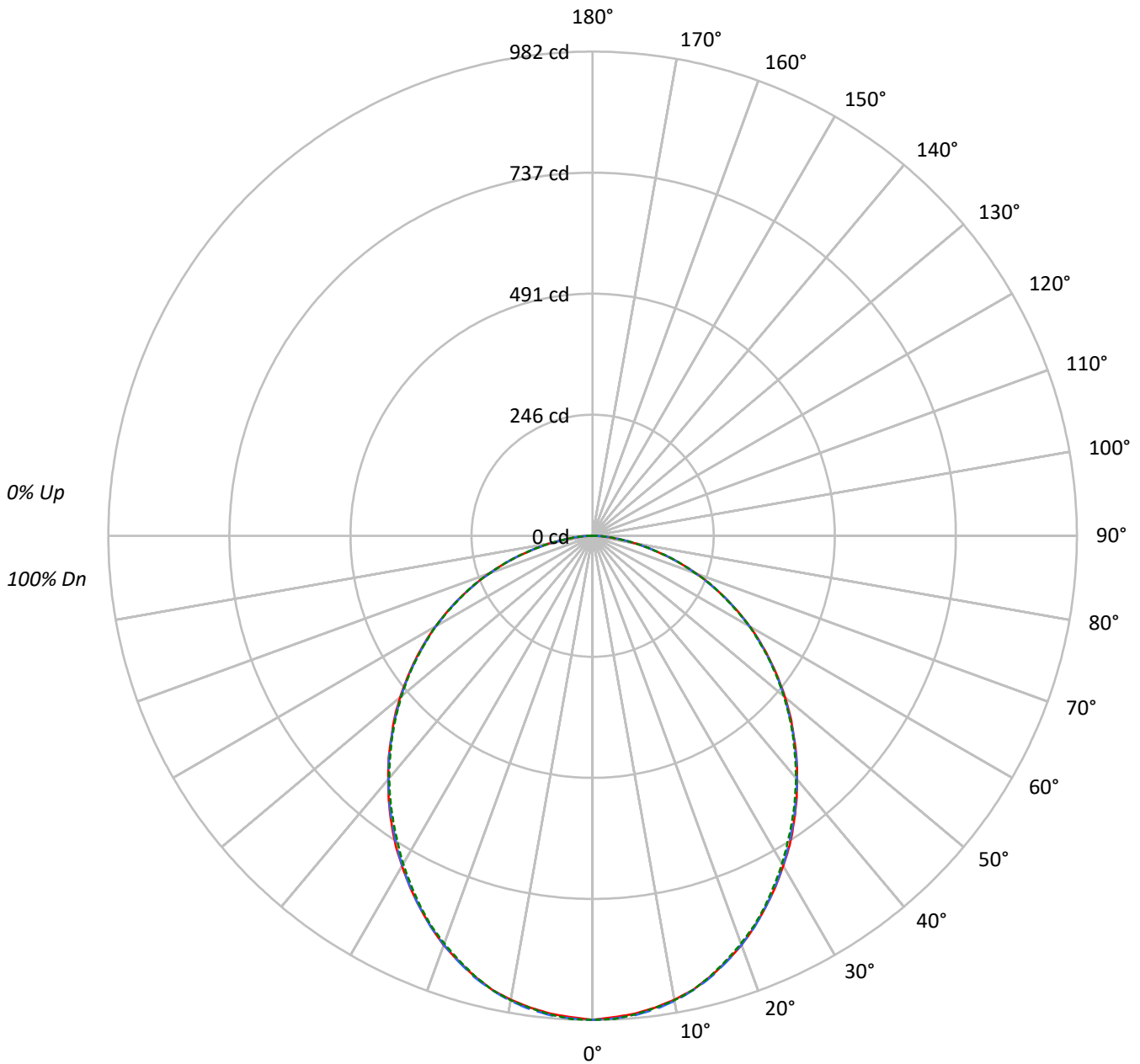
Lumens per Lamp: N/A  
Luminaire Lumens: 2508.1 lumens  
Efficiency: N/A  
Efficacy: 76.0 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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°	2642	2642	2642
5°	2628	2637	2633
10°	2610	2618	2614
15°	2576	2582	2574
20°	2530	2528	2520
25°	2466	2466	2458
30°	2402	2399	2387
35°	2336	2330	2316
40°	2265	2263	2253
45°	2196	2193	2185
50°	2132	2123	2117
55°	2058	2048	2048
60°	1981	1974	1978
65°	1878	1882	1869
70°	1755	1744	1744
75°	1565	1572	1572
80°	1323	1323	1334
85°	1003	1003	1025



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.6	3.7
10°-20°	260.8	10.4
20°-30°	382.5	15.2
30°-40°	443.7	17.7
40°-50°	444.9	17.7
50°-60°	391.2	15.6
60°-70°	292.0	11.6
70°-80°	160.7	6.4
80°-90°	39.8	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°	735.9	29.3
0°-40°	1179.6	47.0
0°-60°	2015.7	80.4
0°-90°	2508.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2508.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	982	982	982	982	982	
5°	973	976	976	976	975	92
15°	925	929	927	925	924	261
25°	830	834	830	830	828	383
35°	711	712	709	707	705	445
45°	577	579	576	576	574	446
55°	439	439	437	437	437	392
65°	295	295	296	294	294	292
75°	150	151	151	150	151	161
85°	32	33	32	32	33	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	981.7	981.7	981.7	981.7	981.7
2.5°	977.6	981.0	980.3	982.4	981.0
5°	972.9	976.3	976.3	976.3	974.9
7.5°	965.4	968.8	968.8	968.8	966.1
10°	955.3	958.7	958.0	958.0	956.6
12.5°	943.1	945.1	943.7	943.7	943.1
15°	924.8	928.8	926.8	925.4	924.1
17.5°	904.4	908.5	905.1	904.4	902.4
20°	883.4	886.1	882.7	882.7	880.0
22.5°	857.6	860.3	858.3	857.0	855.6
25°	830.5	833.9	830.5	829.8	827.8
27.5°	802.7	805.4	802.0	799.3	798.0
30°	772.9	774.9	772.2	770.2	768.1
32.5°	743.7	743.7	741.0	739.0	736.3
35°	711.2	711.9	709.2	707.1	705.1
37.5°	678.7	680.0	677.3	675.3	673.9
40°	644.8	646.1	644.1	642.0	641.4
42.5°	612.2	612.2	610.9	608.8	607.5
45°	577.0	579.0	576.3	575.6	574.2
47.5°	544.4	544.4	541.7	540.3	540.3
50°	509.2	510.5	507.1	506.4	505.8
52.5°	473.9	473.2	472.5	471.9	471.2
55°	438.6	439.3	436.6	437.3	436.6
57.5°	403.4	402.7	402.0	401.4	400.7
60°	368.1	367.5	366.8	366.1	367.5
62.5°	331.5	332.2	330.2	332.2	329.5
65°	294.9	294.9	295.6	294.2	293.6
67.5°	259.7	259.7	258.3	258.3	261.0
70°	223.1	223.7	221.7	224.4	221.7
72.5°	187.1	187.8	187.1	186.4	187.8
75°	150.5	151.2	151.2	149.8	151.2
77.5°	117.3	118.0	117.3	116.6	117.3
80°	85.4	86.1	85.4	84.7	86.1
82.5°	56.9	57.6	56.9	56.9	57.6
85°	32.5	33.2	32.5	32.5	33.2
87.5°	12.9	13.6	13.6	13.6	13.6
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)