

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: P735757

Luminaire Tested: **24APR-85-B2750-W2D-CP125-5000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P735757  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P708973)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 24APR-85-B2750-W2D-CP125-5000K  
Description: 2X4 8500 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 5000K CCT, AND CP125 LENS

Light Source: -  
Ballast/Driver: -

**Summary**

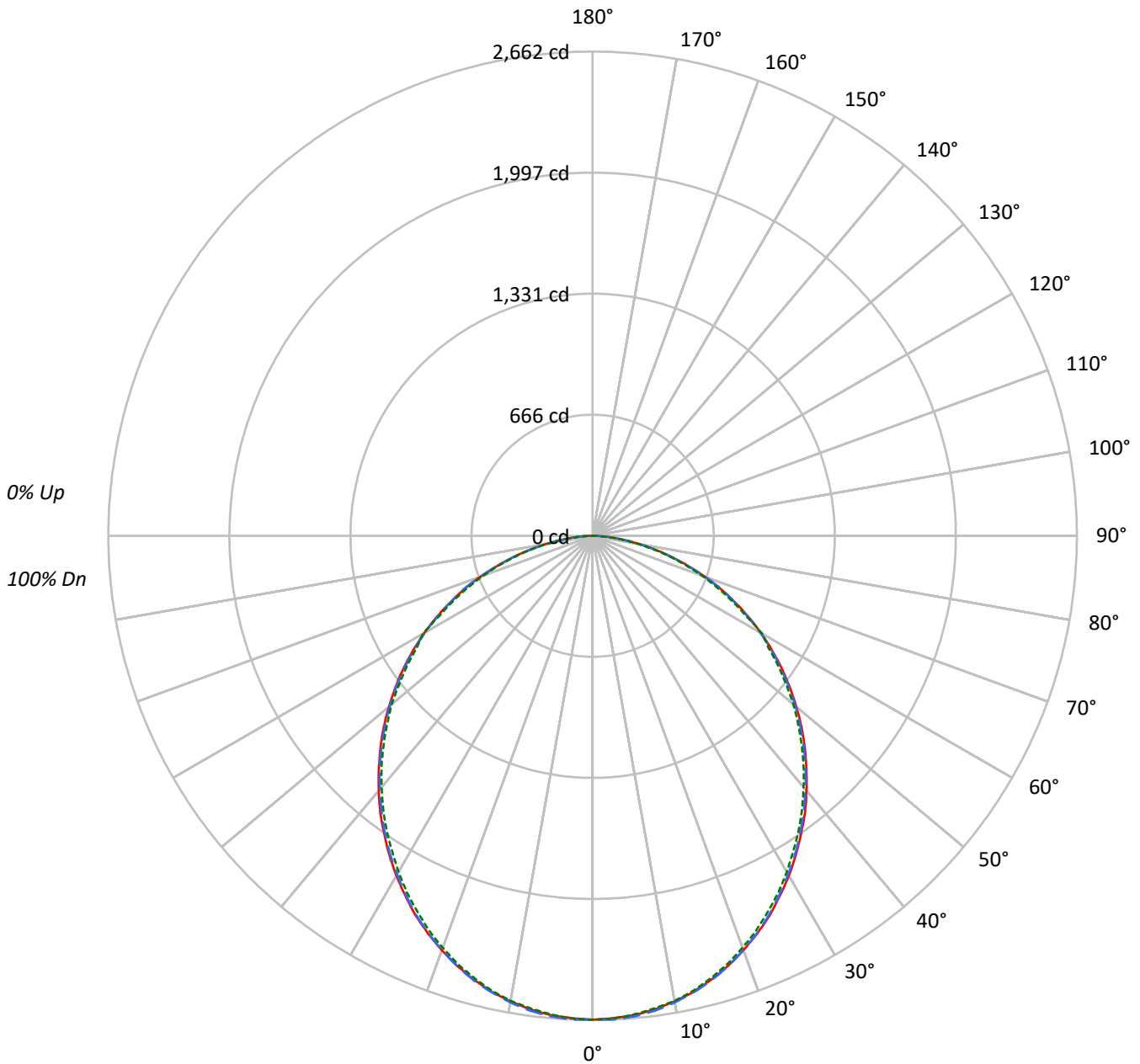
Lumens per Lamp: N/A  
Luminaire Lumens: 7087.0 lumens  
Efficiency: N/A  
Efficacy: 82.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 86  
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	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70																			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59																			
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51																			
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44																			
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39																			
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34																			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30																			
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27																			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25																			

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

	0°	45°	90°
0°	3580	3580	3580
5°	3572	3582	3567
10°	3552	3560	3547
15°	3518	3524	3505
20°	3472	3470	3451
25°	3419	3412	3385
30°	3352	3340	3315
35°	3282	3270	3244
40°	3212	3196	3167
45°	3139	3122	3090
50°	3058	3045	3015
55°	2974	2958	2921
60°	2875	2856	2895
65°	2743	2735	2684
70°	2574	2578	2507
75°	2337	2319	2266
80°	2008	1981	1929
85°	1535	1521	1405



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	251.3	3.5
10°-20°	711.9	10.0
20°-30°	1056.7	14.9
30°-40°	1243.8	17.6
40°-50°	1264.1	17.8
50°-60°	1123.7	15.9
60°-70°	847.6	12.0
70°-80°	470.8	6.6
80°-90°	117.1	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°	2019.9	28.5
0°-40°	3263.8	46.1
0°-60°	5651.5	79.7
0°-90°	7087.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7087.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2661	2661	2661	2661	2661	
5°	2645	2649	2652	2648	2641	251
15°	2526	2528	2530	2524	2516	712
25°	2303	2301	2298	2288	2280	1060
35°	1998	1999	1991	1979	1975	1251
45°	1650	1650	1641	1627	1624	1272
55°	1268	1259	1261	1248	1245	1133
65°	862	857	859	848	843	853
75°	450	444	446	443	436	477
85°	99	97	98	94	91	120
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2660.8	2660.8	2660.8	2660.8	2660.8
2.5°	2654.0	2659.0	2662.4	2658.3	2657.4
5°	2644.7	2648.8	2652.2	2648.1	2641.3
7.5°	2625.9	2631.1	2633.6	2629.3	2620.0
10°	2599.6	2604.7	2605.5	2601.3	2596.2
12.5°	2567.3	2570.7	2570.7	2567.3	2561.4
15°	2525.6	2528.3	2529.9	2524.0	2516.3
17.5°	2478.1	2482.3	2480.6	2471.3	2467.9
20°	2424.6	2428.0	2423.7	2417.8	2410.1
22.5°	2365.9	2366.7	2363.3	2356.5	2348.9
25°	2303.0	2301.4	2298.0	2287.8	2280.1
27.5°	2229.9	2233.3	2224.8	2215.4	2210.4
30°	2157.7	2158.5	2150.1	2138.1	2133.9
32.5°	2080.4	2078.6	2072.7	2060.0	2053.2
35°	1997.9	1998.7	1991.1	1979.2	1974.9
37.5°	1918.0	1913.0	1907.0	1893.4	1890.8
40°	1828.8	1827.9	1819.5	1807.5	1803.3
42.5°	1739.6	1738.7	1731.9	1720.1	1716.7
45°	1649.5	1649.5	1640.9	1627.3	1623.9
47.5°	1557.7	1554.3	1548.3	1536.5	1532.2
50°	1460.8	1458.3	1454.9	1441.3	1440.4
52.5°	1365.7	1363.9	1358.0	1346.2	1339.3
55°	1267.9	1258.6	1261.1	1247.5	1245.0
57.5°	1167.6	1158.3	1163.3	1151.5	1146.5
60°	1068.2	1058.9	1061.4	1053.7	1075.9
62.5°	966.3	960.2	960.2	978.1	945.9
65°	861.7	856.6	859.2	848.1	843.0
67.5°	758.9	751.2	767.4	747.0	738.5
70°	654.4	649.2	655.3	643.3	637.4
72.5°	550.7	546.4	544.8	540.5	535.4
75°	449.5	443.6	446.1	442.7	435.9
77.5°	351.0	349.2	348.5	344.2	339.0
80°	259.1	257.5	255.7	252.3	248.9
82.5°	173.4	171.7	170.8	169.1	168.3
85°	99.4	96.9	98.5	94.4	91.0
87.5°	37.4	36.5	38.3	34.9	32.2
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)