

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: P735756

Luminaire Tested: **24APR-85-B2750-W2D-CP125-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P735756  
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-CP125-4000K  
Description: 2X4 8500 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 4000K CCT, AND CP125 LENS

Light Source: -  
Ballast/Driver: -

**Summary**

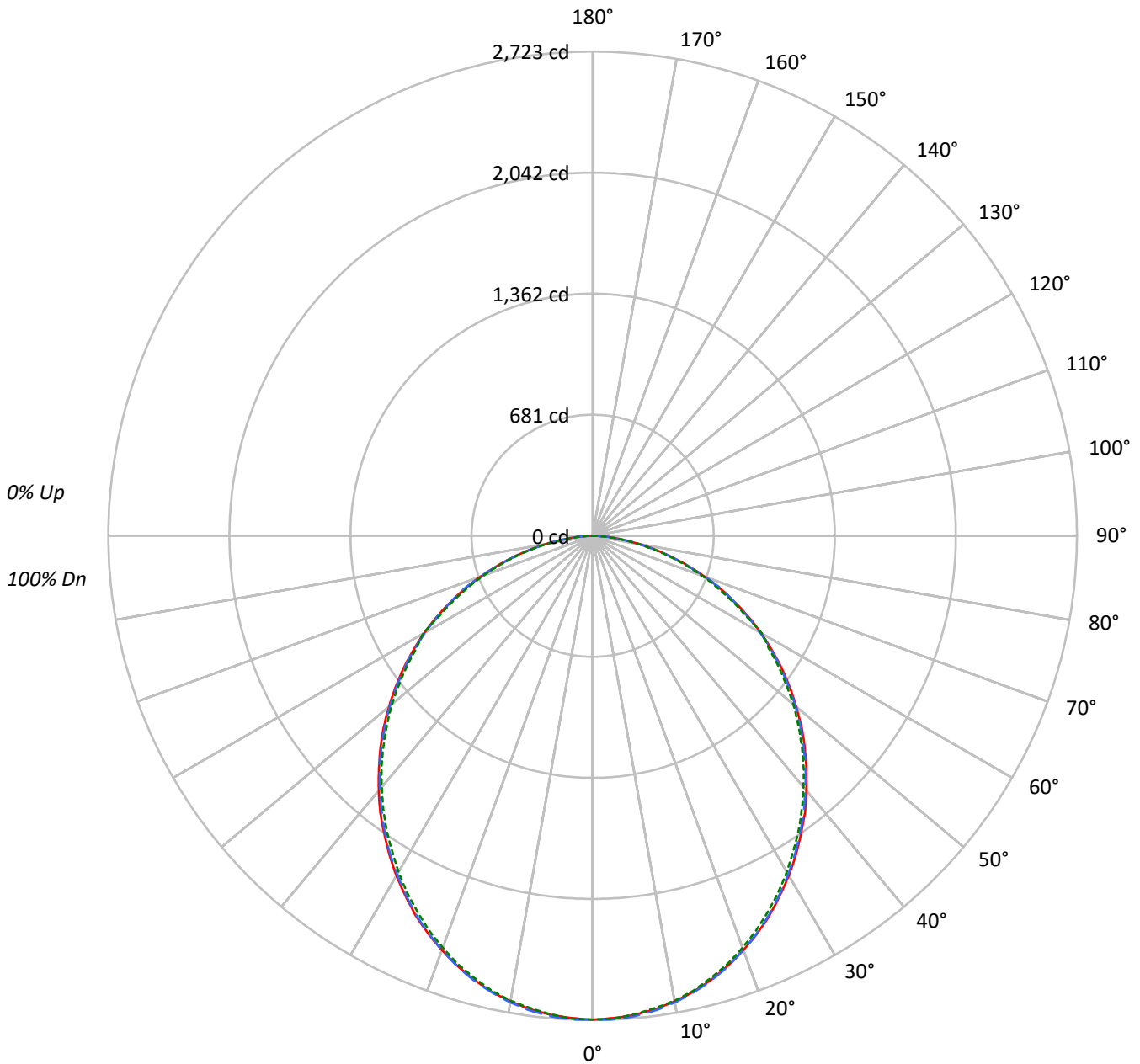
Lumens per Lamp: N/A  
Luminaire Lumens: 7248.0 lumens  
Efficiency: N/A  
Efficacy: 84.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	3661	3661	3661
5°	3653	3664	3648
10°	3632	3641	3628
15°	3598	3604	3585
20°	3551	3549	3529
25°	3497	3489	3462
30°	3429	3416	3391
35°	3356	3345	3318
40°	3285	3268	3239
45°	3210	3193	3160
50°	3127	3114	3084
55°	3042	3026	2987
60°	2940	2921	2961
65°	2806	2798	2745
70°	2633	2636	2564
75°	2390	2372	2318
80°	2053	2027	1973
85°	1570	1555	1436



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	257.0	3.5
10°-20°	728.1	10.0
20°-30°	1080.7	14.9
30°-40°	1272.1	17.6
40°-50°	1292.8	17.8
50°-60°	1149.2	15.9
60°-70°	866.9	12.0
70°-80°	481.5	6.6
80°-90°	119.7	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°	2065.8	28.5
0°-40°	3337.9	46.1
0°-60°	5779.9	79.7
0°-90°	7248.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7248.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2721	2721	2721	2721	2721	
5°	2705	2709	2712	2708	2701	257
15°	2583	2586	2587	2581	2574	728
25°	2355	2354	2350	2340	2332	1084
35°	2043	2044	2036	2024	2020	1279
45°	1687	1687	1678	1664	1661	1301
55°	1297	1287	1290	1276	1273	1159
65°	881	876	879	867	862	872
75°	460	454	456	453	446	487
85°	102	99	101	96	93	122
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2721.2	2721.2	2721.2	2721.2	2721.2
2.5°	2714.3	2719.4	2722.9	2718.7	2717.8
5°	2704.8	2709.0	2712.5	2708.2	2701.3
7.5°	2685.5	2690.8	2693.4	2689.0	2679.5
10°	2658.6	2663.9	2664.7	2660.4	2655.1
12.5°	2625.6	2629.1	2629.1	2625.6	2619.6
15°	2583.0	2585.7	2587.4	2581.3	2573.5
17.5°	2534.4	2538.7	2537.0	2527.5	2524.0
20°	2479.7	2483.1	2478.8	2472.7	2464.8
22.5°	2419.6	2420.5	2417.0	2410.1	2402.2
25°	2355.3	2353.7	2350.2	2339.7	2331.9
27.5°	2280.6	2284.1	2275.3	2265.8	2260.6
30°	2206.8	2207.5	2198.9	2186.6	2182.4
32.5°	2127.7	2125.8	2119.8	2106.8	2099.8
35°	2043.2	2044.1	2036.3	2024.2	2019.8
37.5°	1961.6	1956.4	1950.4	1936.4	1933.7
40°	1870.3	1869.4	1860.8	1848.6	1844.3
42.5°	1779.1	1778.2	1771.3	1759.2	1755.7
45°	1687.0	1687.0	1678.2	1664.3	1660.8
47.5°	1593.1	1589.6	1583.5	1571.4	1567.0
50°	1494.0	1491.4	1487.9	1474.0	1473.1
52.5°	1396.7	1394.9	1388.8	1376.7	1369.8
55°	1296.7	1287.2	1289.8	1275.8	1273.3
57.5°	1194.1	1184.6	1189.8	1177.7	1172.5
60°	1092.5	1083.0	1085.5	1077.7	1100.4
62.5°	988.3	982.1	982.1	1000.4	967.4
65°	881.3	876.0	878.7	867.4	862.1
67.5°	776.2	768.3	784.8	763.9	755.3
70°	669.2	663.9	670.1	657.9	651.8
72.5°	563.2	558.8	557.1	552.8	547.6
75°	459.7	453.7	456.2	452.8	445.8
77.5°	359.0	357.2	356.4	352.0	346.7
80°	265.0	263.4	261.6	258.1	254.6
82.5°	177.3	175.6	174.7	172.9	172.1
85°	101.7	99.1	100.7	96.5	93.0
87.5°	38.3	37.4	39.2	35.7	33.0
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)