

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: P735714

Luminaire Tested: **24APR-49-B2750-W2D-CP250-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P735714  
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-49-B2750-W2D-CP250-3000K  
Description: 2X4 4900 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 3000K CCT, AND CP250 LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

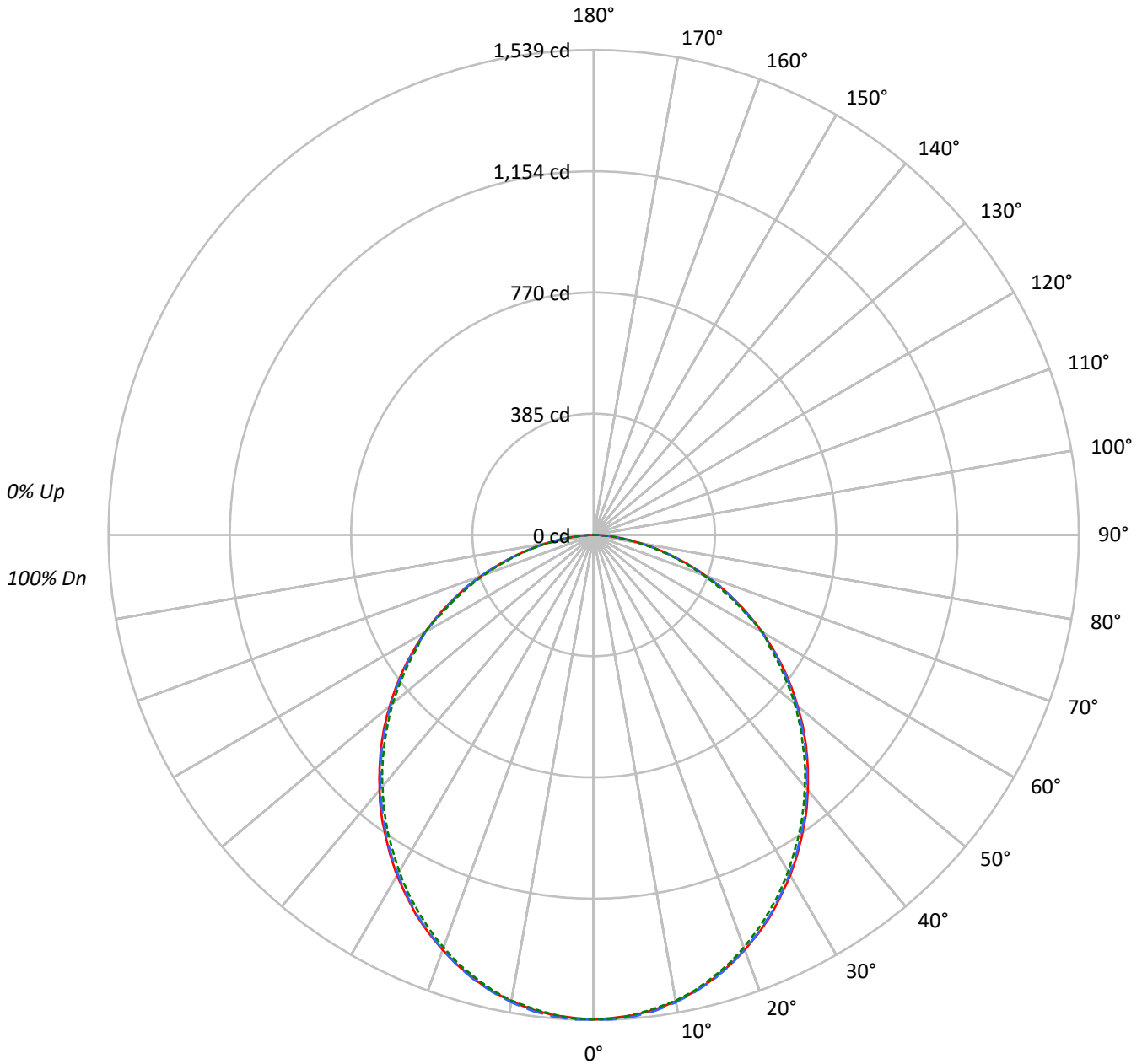
Lumens per Lamp: N/A  
Luminaire Lumens: 4096.0 lumens  
Efficiency: N/A  
Efficacy: 87.1 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 47  
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°	2069	2069	2069
5°	2064	2070	2062
10°	2053	2057	2050
15°	2033	2037	2026
20°	2006	2006	1994
25°	1976	1972	1956
30°	1938	1931	1916
35°	1897	1890	1875
40°	1857	1847	1831
45°	1814	1805	1786
50°	1767	1760	1743
55°	1719	1710	1688
60°	1661	1651	1673
65°	1585	1581	1551
70°	1488	1490	1449
75°	1351	1340	1310
80°	1161	1145	1115
85°	886	878	812



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.2	3.5
10°-20°	411.5	10.0
20°-30°	610.7	14.9
30°-40°	718.9	17.6
40°-50°	730.6	17.8
50°-60°	649.5	15.9
60°-70°	489.9	12.0
70°-80°	272.1	6.6
80°-90°	67.6	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°	1167.4	28.5
0°-40°	1886.3	46.1
0°-60°	3266.4	79.7
0°-90°	4096.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4096.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1538	1538	1538	1538	1538	
5°	1528	1531	1533	1530	1526	145
15°	1460	1461	1462	1459	1454	412
25°	1331	1330	1328	1322	1318	613
35°	1155	1155	1151	1144	1141	723
45°	953	953	948	940	939	735
55°	733	727	729	721	720	655
65°	498	495	497	490	487	493
75°	260	256	258	256	252	275
85°	57	56	57	54	53	69
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1537.8	1537.8	1537.8	1537.8	1537.8
2.5°	1533.9	1536.8	1538.8	1536.4	1535.9
5°	1528.5	1530.9	1532.9	1530.5	1526.5
7.5°	1517.7	1520.7	1522.1	1519.6	1514.2
10°	1502.4	1505.4	1505.9	1503.5	1500.5
12.5°	1483.8	1485.8	1485.8	1483.8	1480.4
15°	1459.7	1461.2	1462.2	1458.8	1454.3
17.5°	1432.3	1434.7	1433.7	1428.3	1426.4
20°	1401.3	1403.3	1400.8	1397.4	1392.9
22.5°	1367.4	1367.9	1365.9	1362.0	1357.5
25°	1331.0	1330.1	1328.1	1322.2	1317.8
27.5°	1288.8	1290.8	1285.8	1280.4	1277.5
30°	1247.1	1247.5	1242.6	1235.7	1233.3
32.5°	1202.4	1201.4	1197.9	1190.6	1186.7
35°	1154.7	1155.2	1150.7	1143.9	1141.4
37.5°	1108.5	1105.6	1102.2	1094.3	1092.8
40°	1057.0	1056.5	1051.6	1044.7	1042.3
42.5°	1005.4	1004.9	1001.0	994.1	992.2
45°	953.4	953.4	948.4	940.5	938.6
47.5°	900.3	898.3	894.9	888.0	885.6
50°	844.3	842.8	840.9	833.0	832.5
52.5°	789.3	788.3	784.9	778.0	774.1
55°	732.8	727.4	728.9	721.0	719.5
57.5°	674.8	669.5	672.4	665.5	662.6
60°	617.4	612.0	613.5	609.0	621.8
62.5°	558.5	555.0	555.0	565.3	546.7
65°	498.0	495.1	496.6	490.2	487.2
67.5°	438.6	434.2	443.5	431.7	426.8
70°	378.2	375.2	378.7	371.8	368.4
72.5°	318.3	315.8	314.9	312.4	309.5
75°	259.8	256.4	257.8	255.9	251.9
77.5°	202.9	201.8	201.4	198.9	195.9
80°	149.8	148.8	147.8	145.8	143.9
82.5°	100.2	99.3	98.7	97.7	97.3
85°	57.4	56.0	56.9	54.5	52.6
87.5°	21.6	21.1	22.1	20.2	18.6
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)