

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: P735715

Luminaire Tested: **24APR-49-B2750-W2D-CP250-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P735715  
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-CP250-3500K  
Description: 2X4 4900 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 3500K CCT, AND CP250 LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

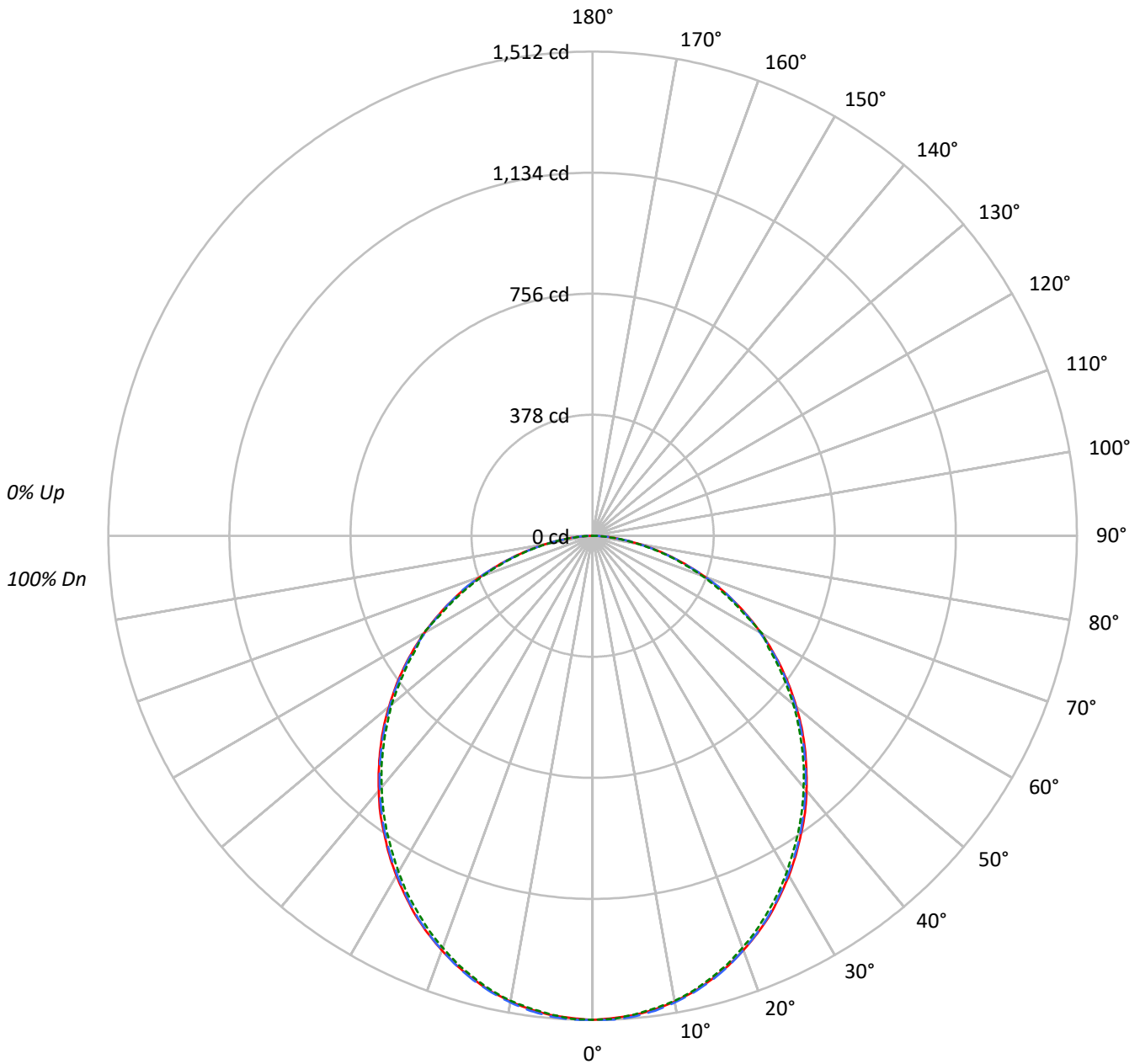
Lumens per Lamp: N/A  
Luminaire Lumens: 4026.0 lumens  
Efficiency: N/A  
Efficacy: 85.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	2034	2034	2034
5°	2029	2035	2027
10°	2018	2022	2015
15°	1999	2002	1991
20°	1972	1972	1960
25°	1942	1938	1923
30°	1904	1898	1883
35°	1864	1858	1843
40°	1825	1815	1799
45°	1783	1774	1755
50°	1737	1730	1713
55°	1690	1681	1659
60°	1633	1623	1645
65°	1558	1554	1525
70°	1462	1464	1424
75°	1328	1317	1287
80°	1141	1126	1096
85°	872	865	798



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.8	3.5
10°-20°	404.4	10.0
20°-30°	600.3	14.9
30°-40°	706.6	17.6
40°-50°	718.1	17.8
50°-60°	638.3	15.9
60°-70°	481.5	12.0
70°-80°	267.4	6.6
80°-90°	66.5	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°	1147.5	28.5
0°-40°	1854.1	46.1
0°-60°	3210.5	79.7
0°-90°	4026.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4026.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1512	1512	1512	1512	1512	
5°	1502	1505	1507	1504	1500	143
15°	1435	1436	1437	1434	1430	404
25°	1308	1307	1305	1300	1295	602
35°	1135	1135	1131	1124	1122	711
45°	937	937	932	924	922	723
55°	720	715	716	709	707	644
65°	490	487	488	482	479	485
75°	255	252	253	252	248	271
85°	56	55	56	54	52	68
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1511.6	1511.6	1511.6	1511.6	1511.6
2.5°	1507.7	1510.5	1512.5	1510.1	1509.6
5°	1502.4	1504.7	1506.7	1504.3	1500.5
7.5°	1491.7	1494.7	1496.1	1493.7	1488.4
10°	1476.8	1479.7	1480.1	1477.8	1474.8
12.5°	1458.4	1460.4	1460.4	1458.4	1455.1
15°	1434.8	1436.3	1437.2	1433.8	1429.5
17.5°	1407.8	1410.1	1409.2	1403.9	1402.0
20°	1377.4	1379.3	1376.9	1373.5	1369.1
22.5°	1344.0	1344.5	1342.6	1338.7	1334.3
25°	1308.3	1307.4	1305.4	1299.6	1295.3
27.5°	1266.8	1268.7	1263.8	1258.5	1255.7
30°	1225.8	1226.2	1221.4	1214.6	1212.3
32.5°	1181.8	1180.8	1177.5	1170.2	1166.4
35°	1134.9	1135.4	1131.1	1124.4	1121.9
37.5°	1089.6	1086.7	1083.4	1075.6	1074.1
40°	1038.9	1038.4	1033.6	1026.8	1024.5
42.5°	988.2	987.7	983.9	977.1	975.2
45°	937.1	937.1	932.2	924.5	922.5
47.5°	884.9	883.0	879.6	872.9	870.4
50°	829.8	828.4	826.5	818.8	818.2
52.5°	775.8	774.8	771.4	764.7	760.9
55°	720.3	715.0	716.4	708.7	707.3
57.5°	663.3	658.0	660.9	654.1	651.3
60°	606.8	601.5	603.0	598.6	611.2
62.5°	548.9	545.5	545.5	555.7	537.3
65°	489.5	486.6	488.1	481.8	478.9
67.5°	431.1	426.8	435.9	424.3	419.5
70°	371.7	368.8	372.2	365.4	362.1
72.5°	312.8	310.4	309.5	307.0	304.2
75°	255.4	252.0	253.4	251.5	247.6
77.5°	199.4	198.4	198.0	195.5	192.6
80°	147.2	146.3	145.3	143.3	141.4
82.5°	98.5	97.6	97.1	96.0	95.6
85°	56.5	55.0	56.0	53.6	51.7
87.5°	21.3	20.8	21.8	19.8	18.3
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)