

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: P735710

Luminaire Tested: **24APR-49-B2750-W2D-CP125-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P735710  
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-CP125-3500K  
Description: 2X4 4900 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 3500K CCT, AND CP125 LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

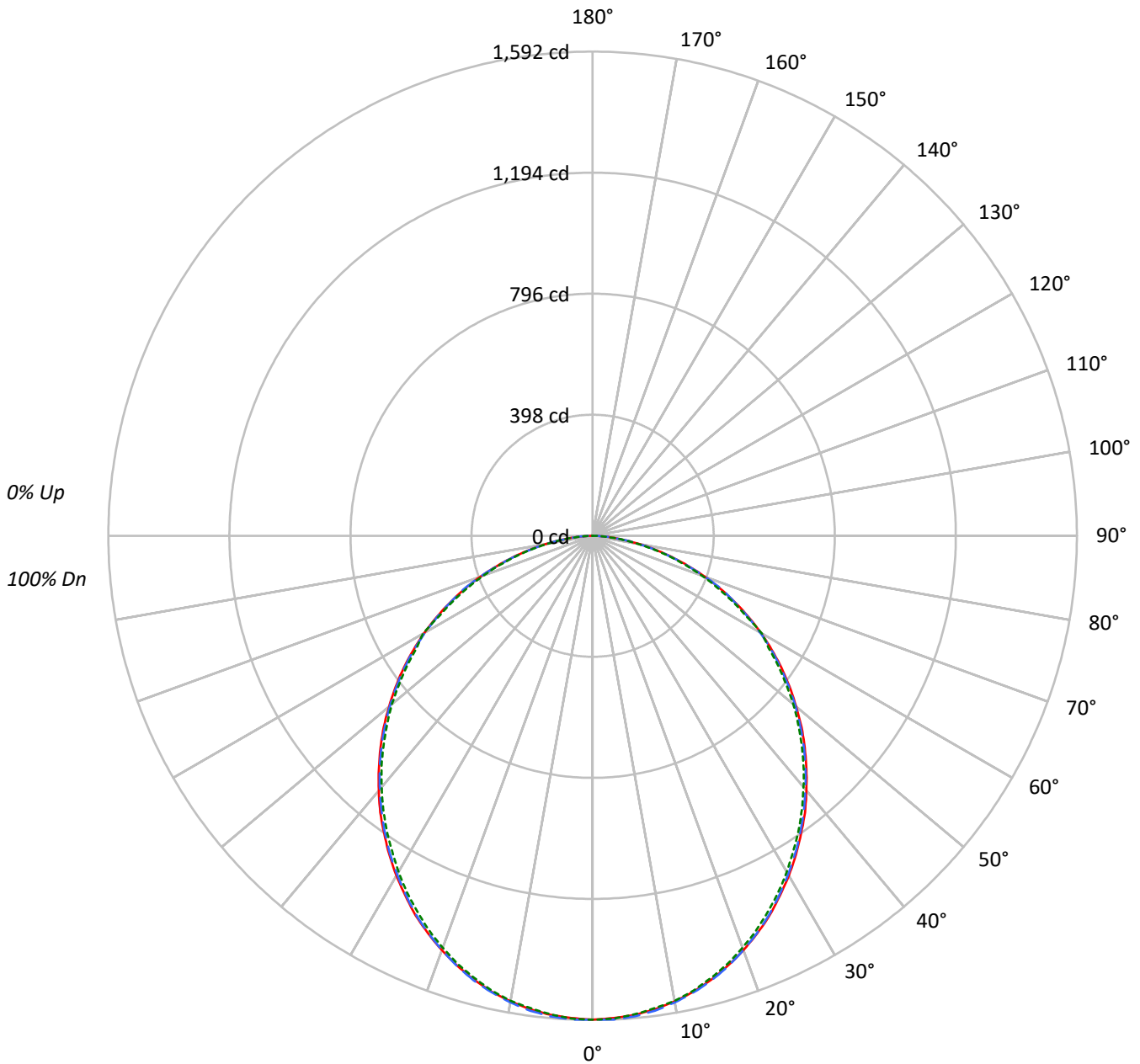
Lumens per Lamp: N/A  
Luminaire Lumens: 4238.0 lumens  
Efficiency: N/A  
Efficacy: 90.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	2141	2141	2141
5°	2136	2142	2133
10°	2124	2129	2121
15°	2104	2107	2096
20°	2076	2075	2064
25°	2045	2040	2024
30°	2005	1998	1983
35°	1962	1956	1940
40°	1921	1911	1894
45°	1877	1867	1848
50°	1828	1821	1803
55°	1779	1769	1746
60°	1719	1708	1731
65°	1641	1636	1605
70°	1539	1541	1499
75°	1397	1387	1355
80°	1201	1185	1154
85°	917	909	840



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.3	3.5
10°-20°	425.7	10.0
20°-30°	631.9	14.9
30°-40°	743.8	17.6
40°-50°	755.9	17.8
50°-60°	672.0	15.9
60°-70°	506.9	12.0
70°-80°	281.5	6.6
80°-90°	70.0	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°	1207.9	28.5
0°-40°	1951.7	46.1
0°-60°	3379.6	79.7
0°-90°	4238.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4238.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1591	1591	1591	1591	1591	
5°	1582	1584	1586	1584	1580	150
15°	1510	1512	1513	1509	1505	426
25°	1377	1376	1374	1368	1364	634
35°	1195	1195	1191	1184	1181	748
45°	986	986	981	973	971	761
55°	758	753	754	746	744	677
65°	515	512	514	507	504	510
75°	269	265	267	265	261	285
85°	59	58	59	56	54	72
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1591.1	1591.1	1591.1	1591.1	1591.1
2.5°	1587.1	1590.1	1592.1	1589.6	1589.1
5°	1581.5	1584.0	1586.0	1583.5	1579.5
7.5°	1570.3	1573.4	1574.9	1572.3	1566.7
10°	1554.5	1557.6	1558.1	1555.6	1552.5
12.5°	1535.2	1537.3	1537.3	1535.2	1531.7
15°	1510.3	1511.9	1512.9	1509.3	1504.7
17.5°	1481.9	1484.4	1483.4	1477.8	1475.8
20°	1449.9	1451.9	1449.4	1445.8	1441.2
22.5°	1414.8	1415.3	1413.3	1409.2	1404.6
25°	1377.2	1376.2	1374.2	1368.1	1363.5
27.5°	1333.5	1335.5	1330.4	1324.8	1321.8
30°	1290.3	1290.8	1285.7	1278.6	1276.1
32.5°	1244.1	1243.0	1239.5	1231.9	1227.8
35°	1194.7	1195.2	1190.6	1183.6	1181.0
37.5°	1146.9	1143.9	1140.4	1132.3	1130.7
40°	1093.6	1093.1	1088.0	1080.9	1078.4
42.5°	1040.3	1039.7	1035.7	1028.6	1026.6
45°	986.4	986.4	981.3	973.1	971.1
47.5°	931.5	929.4	925.9	918.8	916.3
50°	873.5	872.0	870.0	861.9	861.3
52.5°	816.7	815.6	812.1	805.0	800.9
55°	758.2	752.6	754.1	746.0	744.5
57.5°	698.2	692.7	695.7	688.6	685.6
60°	638.8	633.2	634.7	630.1	643.4
62.5°	577.9	574.2	574.2	584.9	565.6
65°	515.3	512.2	513.8	507.2	504.1
67.5°	453.8	449.2	458.9	446.7	441.6
70°	391.3	388.2	391.8	384.7	381.1
72.5°	329.3	326.7	325.8	323.2	320.2
75°	268.8	265.3	266.8	264.7	260.7
77.5°	209.9	208.8	208.4	205.8	202.7
80°	155.0	154.0	152.9	150.9	148.9
82.5°	103.7	102.7	102.2	101.1	100.7
85°	59.4	57.9	58.9	56.4	54.4
87.5°	22.4	21.8	22.9	20.9	19.3
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)