

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: P735711

Luminaire Tested: **24APR-49-B2750-W2D-CP125-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P735711  
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-CP125-4000K  
Description: 2X4 4900 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 4000K CCT, AND CP125 LENS

Light Source: -  
Ballast/Driver: -

**Summary**

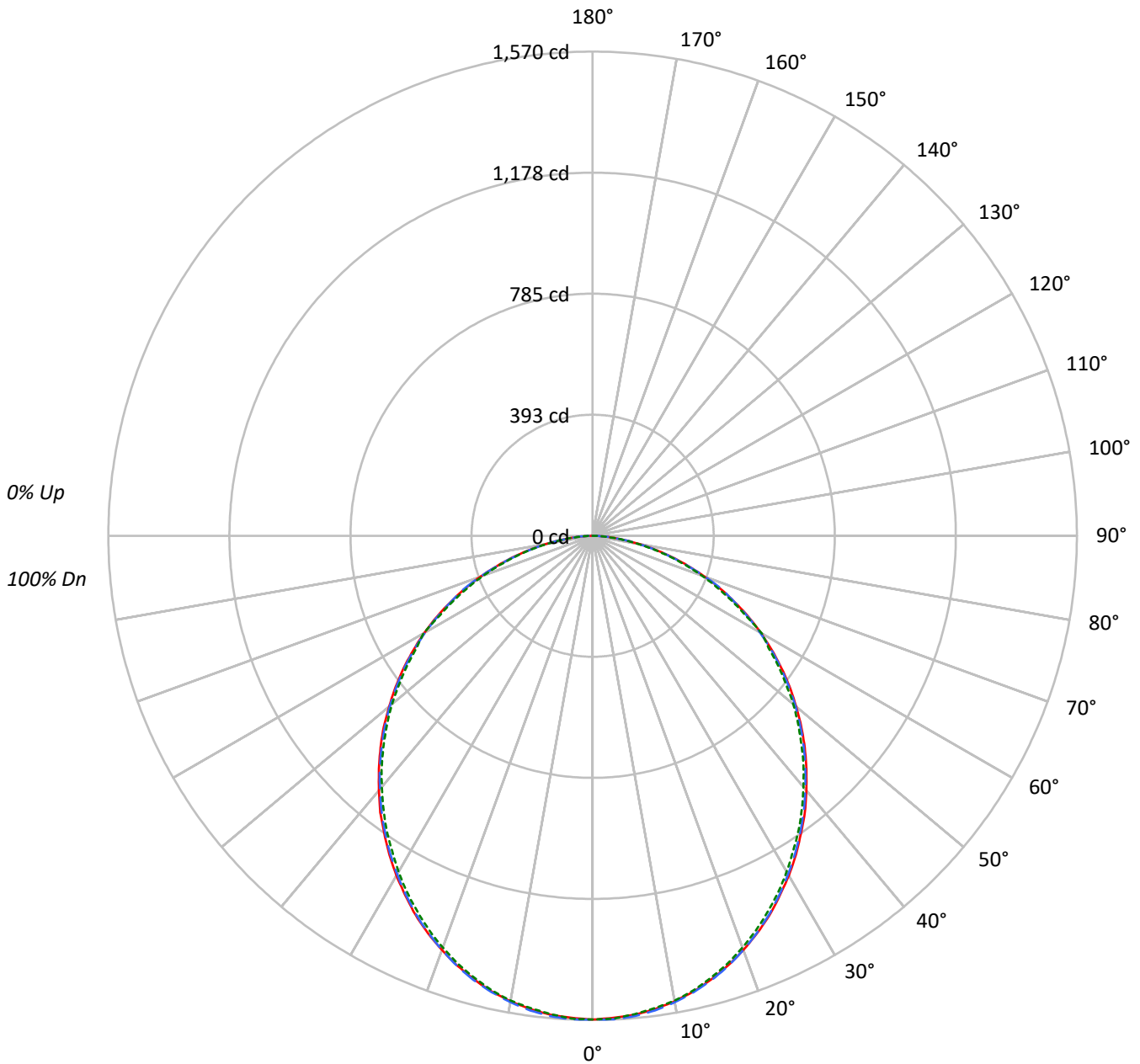
Lumens per Lamp: N/A  
Luminaire Lumens: 4178.0 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	2111	2111	2111
5°	2106	2112	2103
10°	2094	2099	2091
15°	2074	2077	2066
20°	2047	2046	2034
25°	2016	2011	1996
30°	1976	1969	1954
35°	1935	1928	1912
40°	1894	1884	1867
45°	1850	1841	1822
50°	1803	1795	1777
55°	1753	1744	1722
60°	1695	1684	1707
65°	1617	1613	1582
70°	1518	1520	1478
75°	1378	1367	1336
80°	1184	1168	1137
85°	905	897	827



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.2	3.5
10°-20°	419.7	10.0
20°-30°	623.0	14.9
30°-40°	733.3	17.6
40°-50°	745.2	17.8
50°-60°	662.5	15.9
60°-70°	499.7	12.0
70°-80°	277.5	6.6
80°-90°	69.0	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°	1190.8	28.5
0°-40°	1924.1	46.1
0°-60°	3331.8	79.7
0°-90°	4178.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4178.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1569	1569	1569	1569	1569	
5°	1559	1562	1564	1561	1557	148
15°	1489	1490	1491	1488	1483	420
25°	1358	1357	1355	1349	1344	625
35°	1178	1178	1174	1167	1164	737
45°	972	972	967	959	957	750
55°	748	742	744	735	734	668
65°	508	505	506	500	497	503
75°	265	262	263	261	257	281
85°	59	57	58	56	54	71
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1568.6	1568.6	1568.6	1568.6	1568.6
2.5°	1564.6	1567.6	1569.6	1567.1	1566.6
5°	1559.1	1561.6	1563.6	1561.1	1557.1
7.5°	1548.0	1551.1	1552.6	1550.0	1544.6
10°	1532.5	1535.6	1536.0	1533.6	1530.5
12.5°	1513.5	1515.5	1515.5	1513.5	1510.0
15°	1488.9	1490.5	1491.4	1488.0	1483.4
17.5°	1460.9	1463.4	1462.4	1456.9	1454.9
20°	1429.4	1431.4	1428.8	1425.4	1420.8
22.5°	1394.7	1395.3	1393.3	1389.3	1384.7
25°	1357.7	1356.7	1354.7	1348.7	1344.2
27.5°	1314.6	1316.6	1311.6	1306.1	1303.1
30°	1272.1	1272.5	1267.5	1260.5	1258.0
32.5°	1226.5	1225.4	1221.9	1214.4	1210.4
35°	1177.8	1178.3	1173.8	1166.8	1164.3
37.5°	1130.7	1127.7	1124.3	1116.2	1114.7
40°	1078.1	1077.6	1072.6	1065.6	1063.1
42.5°	1025.5	1025.0	1021.0	1014.0	1012.0
45°	972.4	972.4	967.4	959.4	957.4
47.5°	918.3	916.3	912.8	905.8	903.3
50°	861.2	859.7	857.7	849.7	849.1
52.5°	805.1	804.1	800.6	793.6	789.6
55°	747.5	742.0	743.5	735.4	734.0
57.5°	688.3	682.9	685.8	678.8	675.9
60°	629.8	624.3	625.7	621.2	634.3
62.5°	569.7	566.1	566.1	576.6	557.6
65°	508.0	505.0	506.5	500.0	496.9
67.5°	447.4	442.9	452.4	440.4	435.4
70°	385.8	382.7	386.3	379.2	375.7
72.5°	324.6	322.1	321.2	318.6	315.7
75°	265.0	261.5	263.0	261.0	257.0
77.5°	206.9	205.9	205.4	202.9	199.9
80°	152.8	151.8	150.8	148.8	146.8
82.5°	102.2	101.2	100.7	99.7	99.2
85°	58.6	57.1	58.1	55.6	53.6
87.5°	22.1	21.5	22.6	20.6	19.0
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)