

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: P735706

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P735706  
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-4000K  
Description: 2X4 4900 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 4000K CCT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

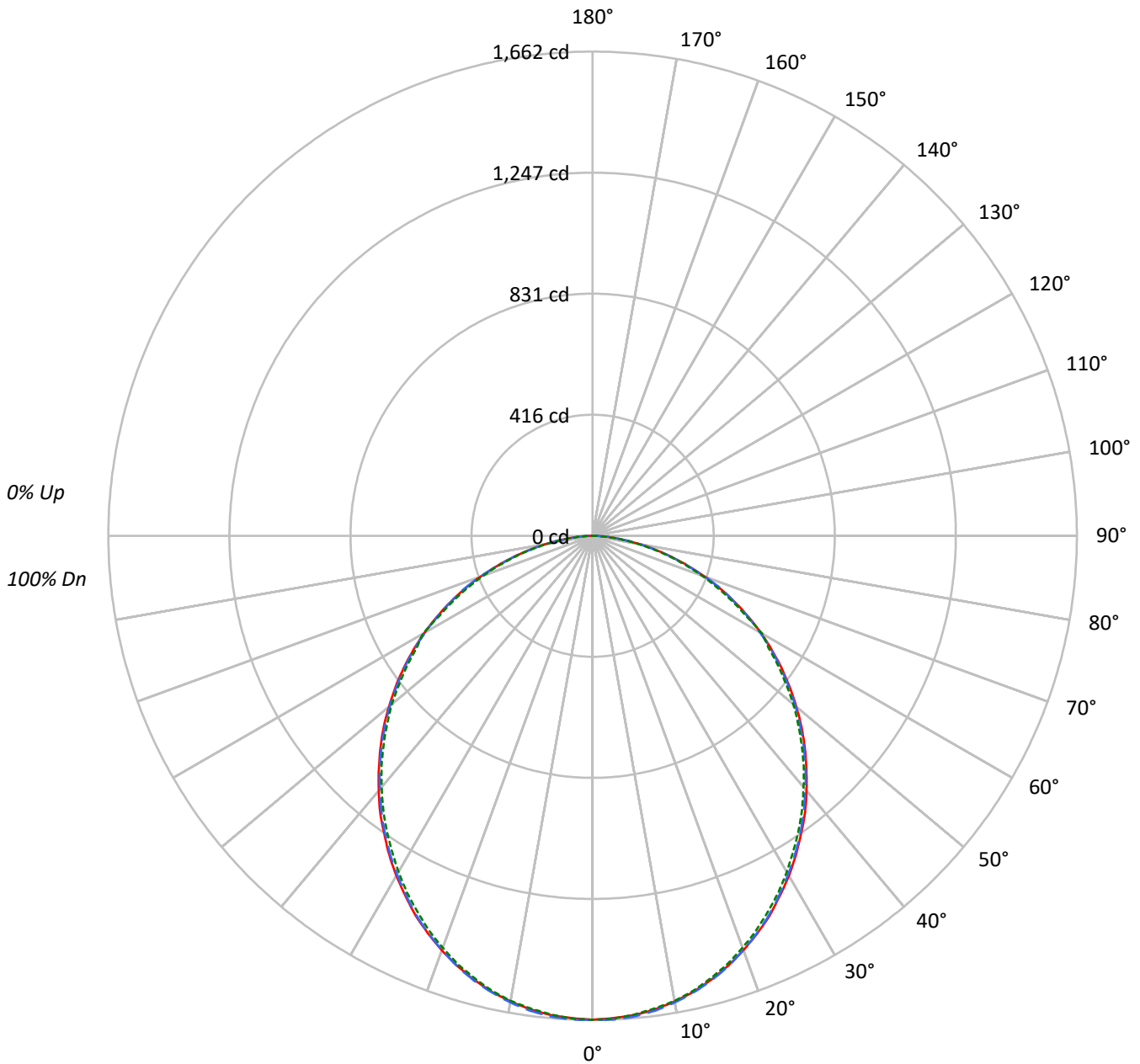
Lumens per Lamp: N/A  
Luminaire Lumens: 4425.0 lumens  
Efficiency: N/A  
Efficacy: 94.1 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P735706

CATALOG NUMBER: 24APR-49-B2750-W2D-4000K

### 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°	2235	2235	2235
5°	2230	2237	2227
10°	2218	2223	2215
15°	2197	2200	2188
20°	2168	2167	2155
25°	2135	2130	2113
30°	2093	2086	2070
35°	2049	2042	2025
40°	2006	1995	1978
45°	1960	1950	1929
50°	1909	1901	1882
55°	1857	1847	1823
60°	1795	1783	1808
65°	1713	1708	1676
70°	1607	1609	1566
75°	1459	1448	1415
80°	1254	1237	1204
85°	959	949	877



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.9	3.5
10°-20°	444.5	10.0
20°-30°	659.8	14.9
30°-40°	776.6	17.6
40°-50°	789.3	17.8
50°-60°	701.6	15.9
60°-70°	529.2	12.0
70°-80°	294.0	6.6
80°-90°	73.1	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°	1261.2	28.5
0°-40°	2037.9	46.1
0°-60°	3528.7	79.7
0°-90°	4425.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4425.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1661	1661	1661	1661	1661	
5°	1651	1654	1656	1653	1649	157
15°	1577	1579	1580	1576	1571	445
25°	1438	1437	1435	1428	1424	662
35°	1247	1248	1243	1236	1233	781
45°	1030	1030	1025	1016	1014	794
55°	792	786	787	779	777	707
65°	538	535	536	530	526	533
75°	281	277	278	276	272	298
85°	62	60	62	59	57	75
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1661.4	1661.4	1661.4	1661.4	1661.4
2.5°	1657.1	1660.2	1662.4	1659.8	1659.2
5°	1651.3	1653.9	1656.0	1653.4	1649.2
7.5°	1639.6	1642.8	1644.4	1641.7	1635.9
10°	1623.1	1626.4	1626.8	1624.2	1621.0
12.5°	1603.0	1605.1	1605.1	1603.0	1599.3
15°	1576.9	1578.6	1579.6	1575.9	1571.1
17.5°	1547.3	1549.9	1548.9	1543.1	1540.9
20°	1513.9	1516.0	1513.3	1509.6	1504.8
22.5°	1477.2	1477.8	1475.6	1471.4	1466.6
25°	1438.0	1436.9	1434.8	1428.4	1423.6
27.5°	1392.3	1394.5	1389.1	1383.3	1380.1
30°	1347.3	1347.7	1342.5	1335.0	1332.4
32.5°	1299.0	1297.9	1294.2	1286.2	1282.0
35°	1247.4	1248.0	1243.2	1235.8	1233.1
37.5°	1197.6	1194.4	1190.7	1182.2	1180.6
40°	1141.9	1141.3	1136.0	1128.6	1126.0
42.5°	1086.2	1085.6	1081.4	1074.0	1071.9
45°	1029.9	1029.9	1024.6	1016.1	1014.0
47.5°	972.6	970.5	966.8	959.4	956.7
50°	912.1	910.5	908.4	899.9	899.3
52.5°	852.7	851.6	847.9	840.5	836.3
55°	791.7	785.8	787.4	778.9	777.3
57.5°	729.0	723.2	726.4	719.0	715.8
60°	667.0	661.2	662.7	657.9	671.8
62.5°	603.3	599.6	599.6	610.7	590.6
65°	538.1	534.8	536.5	529.6	526.3
67.5°	473.9	469.1	479.1	466.4	461.1
70°	408.6	405.3	409.1	401.6	398.0
72.5°	343.8	341.2	340.1	337.5	334.3
75°	280.7	277.0	278.5	276.4	272.2
77.5°	219.2	218.0	217.6	214.9	211.7
80°	161.8	160.8	159.7	157.6	155.4
82.5°	108.2	107.2	106.7	105.6	105.1
85°	62.1	60.5	61.5	58.9	56.8
87.5°	23.4	22.8	23.9	21.8	20.1
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)