

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: P735707

Luminaire Tested: **24APR-49-B2750-W2D-5000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P735707  
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-5000K  
Description: 2X4 4900 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 5000K CCT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

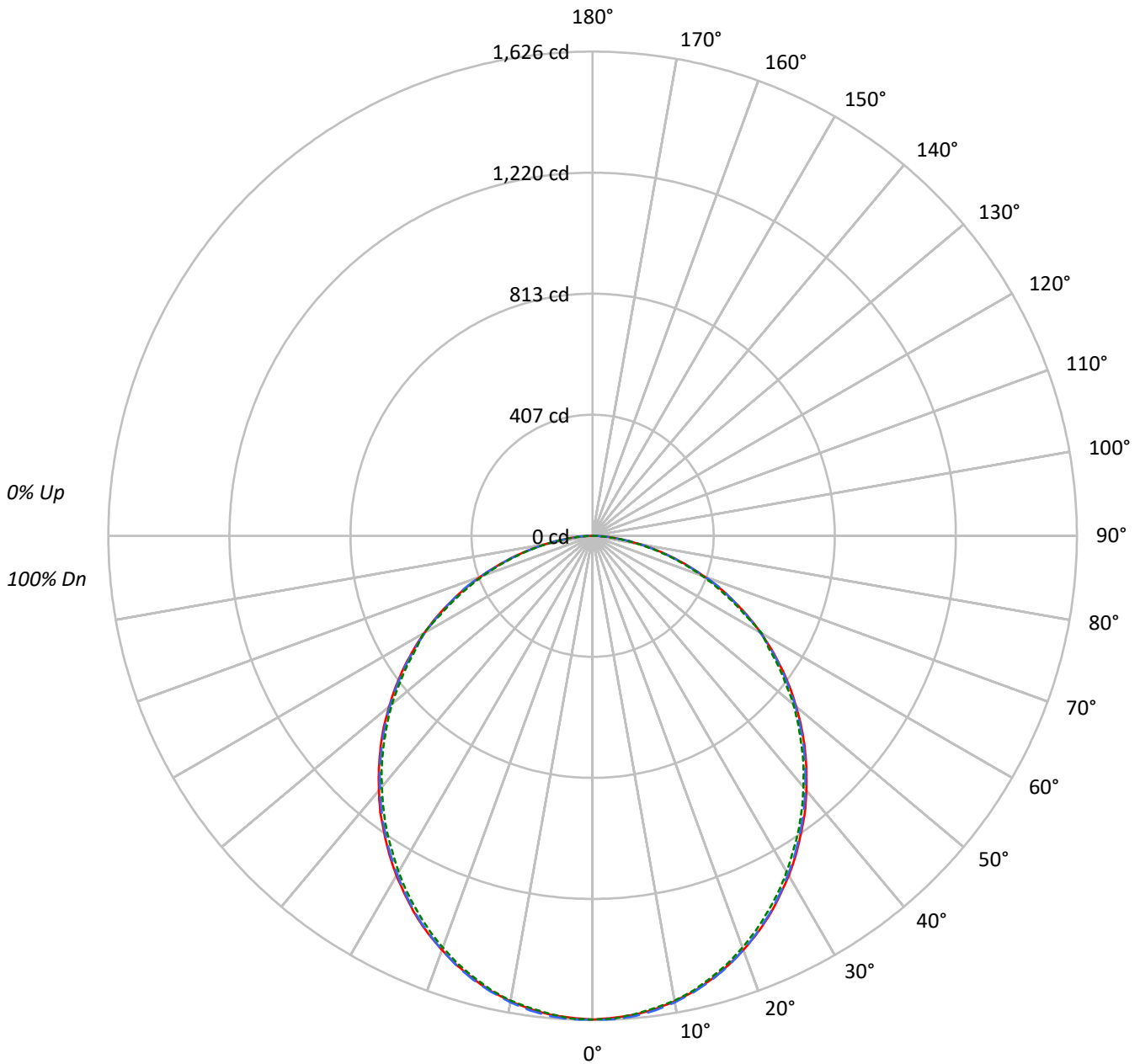
Lumens per Lamp: N/A  
Luminaire Lumens: 4327.0 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	2186	2186	2186
5°	2181	2187	2178
10°	2169	2173	2166
15°	2148	2152	2140
20°	2120	2119	2107
25°	2087	2083	2067
30°	2047	2039	2024
35°	2004	1997	1981
40°	1961	1951	1934
45°	1916	1906	1887
50°	1867	1859	1841
55°	1816	1806	1783
60°	1755	1744	1768
65°	1675	1670	1639
70°	1572	1574	1531
75°	1426	1416	1383
80°	1226	1210	1178
85°	937	928	857



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.4	3.5
10°-20°	434.7	10.0
20°-30°	645.2	14.9
30°-40°	759.4	17.6
40°-50°	771.8	17.8
50°-60°	686.1	15.9
60°-70°	517.5	12.0
70°-80°	287.4	6.6
80°-90°	71.5	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°	1233.3	28.5
0°-40°	1992.7	46.1
0°-60°	3450.6	79.7
0°-90°	4327.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4327.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1625	1625	1625	1625	1625	
5°	1615	1617	1619	1617	1613	153
15°	1542	1544	1545	1541	1536	435
25°	1406	1405	1403	1397	1392	647
35°	1220	1220	1216	1208	1206	764
45°	1007	1007	1002	994	992	777
55°	774	768	770	762	760	692
65°	526	523	525	518	515	521
75°	274	271	272	270	266	291
85°	61	59	60	58	56	73
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1624.6	1624.6	1624.6	1624.6	1624.6
2.5°	1620.4	1623.5	1625.6	1623.0	1622.5
5°	1614.7	1617.2	1619.3	1616.8	1612.6
7.5°	1603.2	1606.4	1607.9	1605.3	1599.6
10°	1587.2	1590.3	1590.8	1588.3	1585.1
12.5°	1567.5	1569.6	1569.6	1567.5	1563.9
15°	1542.0	1543.6	1544.6	1541.0	1536.3
17.5°	1513.0	1515.6	1514.6	1508.9	1506.8
20°	1480.3	1482.4	1479.8	1476.2	1471.5
22.5°	1444.5	1445.0	1443.0	1438.8	1434.1
25°	1406.1	1405.1	1403.0	1396.8	1392.1
27.5°	1361.5	1363.6	1358.3	1352.6	1349.6
30°	1317.4	1317.9	1312.7	1305.4	1302.9
32.5°	1270.2	1269.1	1265.5	1257.7	1253.6
35°	1219.8	1220.3	1215.6	1208.4	1205.8
37.5°	1171.0	1168.0	1164.3	1156.0	1154.4
40°	1116.6	1116.0	1110.9	1103.6	1101.0
42.5°	1062.1	1061.6	1057.4	1050.2	1048.1
45°	1007.1	1007.1	1001.9	993.6	991.5
47.5°	951.0	949.0	945.4	938.1	935.5
50°	891.9	890.4	888.3	880.0	879.4
52.5°	833.8	832.7	829.1	821.9	817.7
55°	774.1	768.4	770.0	761.7	760.1
57.5°	712.9	707.2	710.3	703.1	700.0
60°	652.2	646.5	648.1	643.4	656.9
62.5°	590.0	586.3	586.3	597.2	577.5
65°	526.1	523.0	524.6	517.8	514.7
67.5°	463.4	458.7	468.5	456.1	450.9
70°	399.5	396.4	400.1	392.8	389.1
72.5°	336.2	333.6	332.6	330.0	326.9
75°	274.4	270.8	272.4	270.3	266.1
77.5°	214.3	213.2	212.8	210.1	207.0
80°	158.2	157.2	156.1	154.1	152.0
82.5°	105.8	104.8	104.3	103.2	102.8
85°	60.7	59.2	60.1	57.6	55.5
87.5°	22.8	22.3	23.4	21.3	19.7
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)