

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: P735742

Luminaire Tested: **24APR-67-B2750-W2D-CP125-5000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P735742  
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-67-B2750-W2D-CP125-5000K  
Description: 2X4 6700 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 5000K CCT, AND CP125 LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

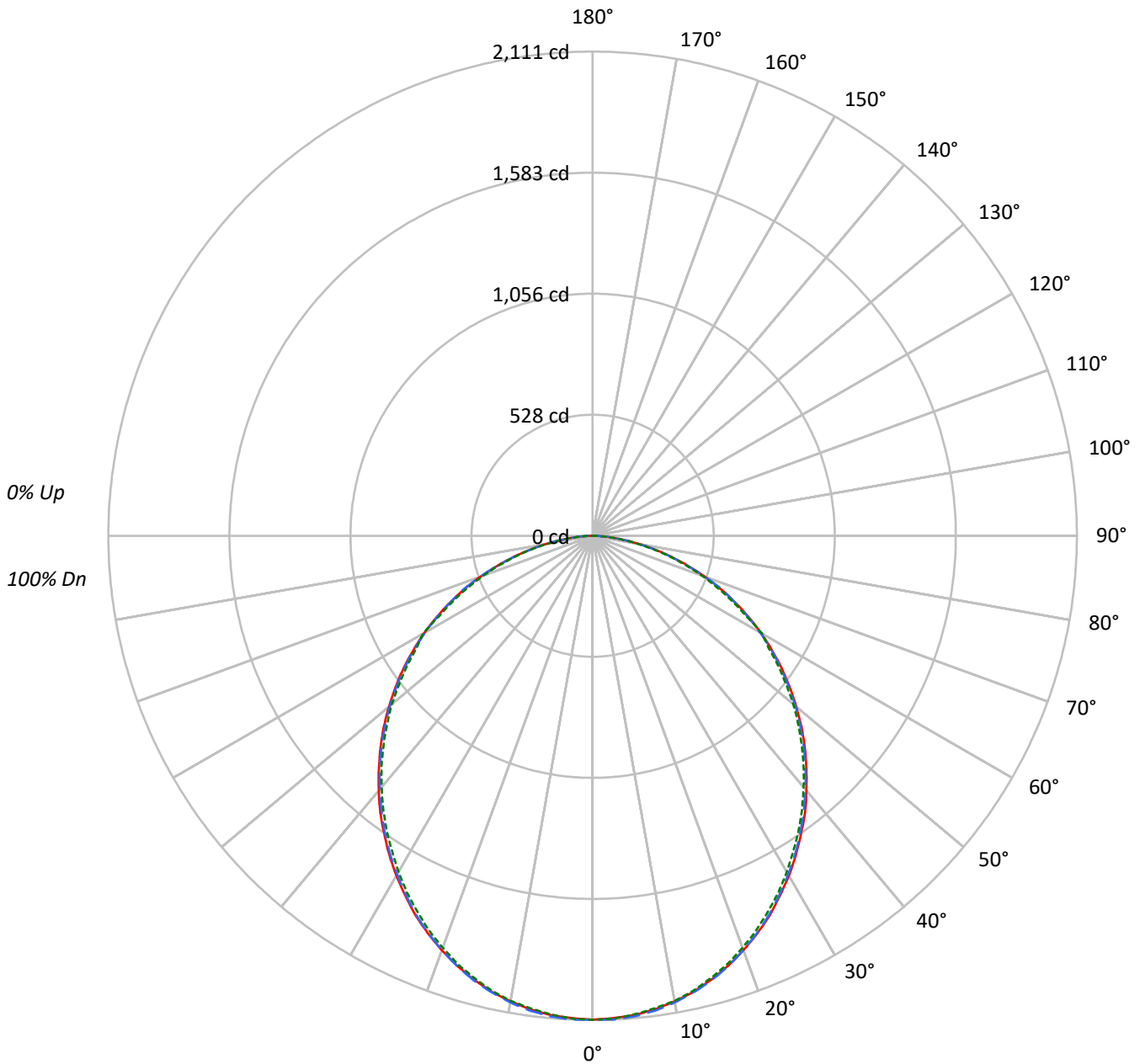
Lumens per Lamp: N/A  
Luminaire Lumens: 5620.0 lumens  
Efficiency: N/A  
Efficacy: 85.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 66  
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°	2839	2839	2839
5°	2833	2841	2829
10°	2817	2823	2813
15°	2790	2795	2779
20°	2753	2752	2737
25°	2711	2705	2684
30°	2658	2649	2629
35°	2602	2593	2572
40°	2547	2534	2512
45°	2489	2476	2450
50°	2425	2415	2391
55°	2359	2346	2316
60°	2280	2265	2296
65°	2176	2169	2128
70°	2041	2044	1988
75°	1853	1839	1797
80°	1592	1571	1530
85°	1216	1206	1113



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.3	3.5
10°-20°	564.6	10.0
20°-30°	838.0	14.9
30°-40°	986.4	17.6
40°-50°	1002.4	17.8
50°-60°	891.1	15.9
60°-70°	672.2	12.0
70°-80°	373.3	6.6
80°-90°	92.8	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°	1601.8	28.5
0°-40°	2588.2	46.1
0°-60°	4481.7	79.7
0°-90°	5620.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5620.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2110	2110	2110	2110	2110	
5°	2097	2100	2103	2100	2094	199
15°	2003	2005	2006	2002	1995	565
25°	1826	1825	1822	1814	1808	840
35°	1584	1585	1579	1570	1566	992
45°	1308	1308	1301	1290	1288	1009
55°	1006	998	1000	989	987	898
65°	683	679	681	673	668	677
75°	356	352	354	351	346	378
85°	79	77	78	75	72	95
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2110.0	2110.0	2110.0	2110.0	2110.0
2.5°	2104.6	2108.6	2111.3	2108.0	2107.3
5°	2097.2	2100.5	2103.2	2099.9	2094.5
7.5°	2082.3	2086.4	2088.4	2085.0	2077.6
10°	2061.5	2065.6	2066.1	2062.9	2058.8
12.5°	2035.9	2038.6	2038.6	2035.9	2031.2
15°	2002.8	2004.9	2006.2	2001.5	1995.4
17.5°	1965.2	1968.4	1967.2	1959.8	1957.1
20°	1922.7	1925.4	1922.0	1917.3	1911.2
22.5°	1876.1	1876.8	1874.1	1868.7	1862.6
25°	1826.3	1825.0	1822.3	1814.2	1808.1
27.5°	1768.3	1771.0	1764.2	1756.8	1752.9
30°	1711.1	1711.7	1705.0	1695.5	1692.2
32.5°	1649.8	1648.3	1643.7	1633.6	1628.2
35°	1584.3	1585.0	1578.9	1569.5	1566.1
37.5°	1521.0	1517.0	1512.3	1501.5	1499.4
40°	1450.2	1449.5	1442.8	1433.3	1430.1
42.5°	1379.5	1378.8	1373.4	1364.0	1361.3
45°	1308.1	1308.1	1301.3	1290.5	1287.8
47.5°	1235.2	1232.5	1227.8	1218.5	1215.1
50°	1158.4	1156.4	1153.7	1142.9	1142.2
52.5°	1083.0	1081.6	1076.9	1067.5	1062.1
55°	1005.5	998.1	1000.1	989.3	987.3
57.5°	925.9	918.5	922.5	913.1	909.2
60°	847.1	839.7	841.7	835.6	853.2
62.5°	766.3	761.5	761.5	775.7	750.1
65°	683.4	679.3	681.4	672.6	668.5
67.5°	601.8	595.7	608.5	592.3	585.7
70°	518.9	514.8	519.6	510.1	505.4
72.5°	436.7	433.3	432.0	428.6	424.6
75°	356.5	351.8	353.8	351.1	345.7
77.5°	278.3	276.9	276.3	272.9	268.8
80°	205.5	204.2	202.8	200.1	197.4
82.5°	137.5	136.2	135.5	134.1	133.5
85°	78.8	76.8	78.1	74.8	72.1
87.5°	29.7	29.0	30.4	27.7	25.6
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)