

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: P735747

Luminaire Tested: **24APR-67-B2750-W2D-CP250-5000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P735747  
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-CP250-5000K  
Description: 2X4 6700 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 5000K CCT, AND CP250 LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

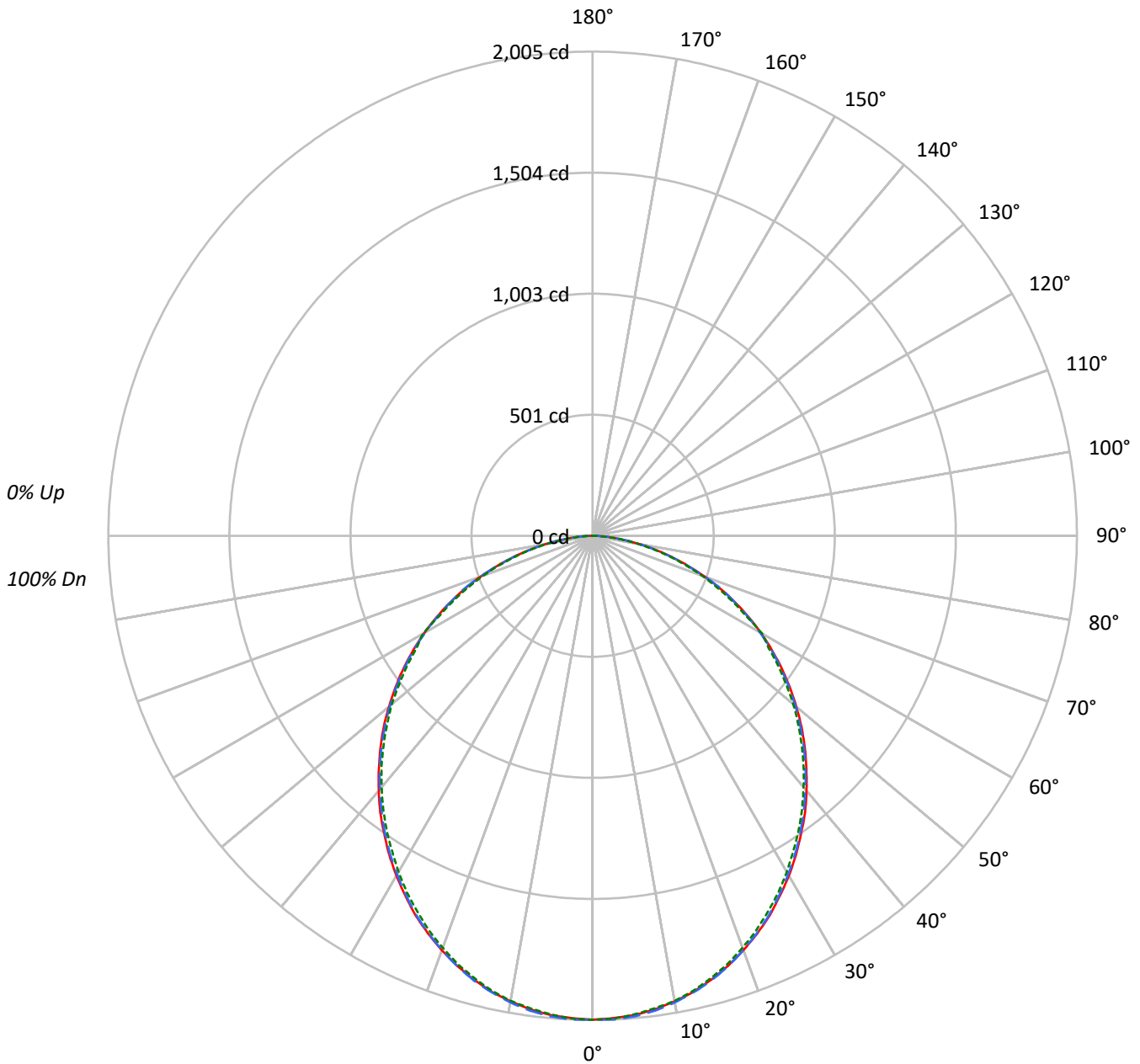
Lumens per Lamp: N/A  
Luminaire Lumens: 5338.0 lumens  
Efficiency: N/A  
Efficacy: 80.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	2696	2696	2696
5°	2690	2698	2687
10°	2675	2681	2672
15°	2650	2654	2640
20°	2615	2614	2599
25°	2575	2570	2550
30°	2525	2516	2497
35°	2472	2463	2443
40°	2419	2407	2386
45°	2364	2352	2328
50°	2303	2294	2271
55°	2240	2228	2200
60°	2165	2151	2181
65°	2067	2060	2021
70°	1939	1941	1889
75°	1760	1747	1707
80°	1512	1492	1453
85°	1156	1145	1057



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.3	3.5
10°-20°	536.2	10.0
20°-30°	795.9	14.9
30°-40°	936.9	17.6
40°-50°	952.1	17.8
50°-60°	846.4	15.9
60°-70°	638.4	12.0
70°-80°	354.6	6.6
80°-90°	88.2	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°	1521.4	28.5
0°-40°	2458.3	46.1
0°-60°	4256.8	79.7
0°-90°	5338.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5338.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2004	2004	2004	2004	2004	
5°	1992	1995	1998	1995	1989	189
15°	1902	1904	1906	1901	1895	536
25°	1735	1733	1731	1723	1717	798
35°	1505	1506	1500	1491	1488	942
45°	1242	1242	1236	1226	1223	958
55°	955	948	950	940	938	853
65°	649	645	647	639	635	643
75°	339	334	336	333	328	359
85°	75	73	74	71	68	90
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2004.1	2004.1	2004.1	2004.1	2004.1
2.5°	1999.0	2002.8	2005.4	2002.2	2001.6
5°	1992.0	1995.1	1997.7	1994.6	1989.4
7.5°	1977.8	1981.7	1983.6	1980.4	1973.4
10°	1958.0	1961.9	1962.5	1959.4	1955.5
12.5°	1933.7	1936.3	1936.3	1933.7	1929.3
15°	1902.3	1904.3	1905.5	1901.1	1895.3
17.5°	1866.5	1869.7	1868.4	1861.4	1858.9
20°	1826.2	1828.8	1825.6	1821.1	1815.3
22.5°	1782.0	1782.7	1780.1	1775.0	1769.2
25°	1734.6	1733.4	1730.9	1723.2	1717.4
27.5°	1679.6	1682.2	1675.7	1668.7	1664.9
30°	1625.2	1625.8	1619.4	1610.4	1607.3
32.5°	1567.0	1565.6	1561.2	1551.6	1546.5
35°	1504.8	1505.5	1499.7	1490.8	1487.5
37.5°	1444.6	1440.9	1436.4	1426.1	1424.1
40°	1377.5	1376.8	1370.4	1361.4	1358.3
42.5°	1310.3	1309.6	1304.5	1295.6	1293.0
45°	1242.4	1242.4	1236.0	1225.7	1223.2
47.5°	1173.3	1170.7	1166.2	1157.3	1154.1
50°	1100.3	1098.4	1095.8	1085.6	1084.9
52.5°	1028.6	1027.3	1022.8	1013.9	1008.8
55°	955.0	948.0	949.9	939.6	937.7
57.5°	879.5	872.4	876.2	867.3	863.5
60°	804.6	797.6	799.5	793.7	810.4
62.5°	727.8	723.3	723.3	736.7	712.5
65°	649.1	645.2	647.2	638.8	634.9
67.5°	571.6	565.8	578.0	562.6	556.3
70°	492.9	489.0	493.5	484.5	480.1
72.5°	414.8	411.5	410.3	407.1	403.3
75°	338.6	334.1	336.0	333.4	328.3
77.5°	264.4	263.0	262.5	259.2	255.3
80°	195.2	194.0	192.6	190.1	187.5
82.5°	130.6	129.3	128.7	127.3	126.8
85°	74.9	73.0	74.2	71.1	68.5
87.5°	28.2	27.5	28.9	26.3	24.3
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)