

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: P735737

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P735737  
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-5000K  
Description: 2X4 6700 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 5000K CCT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

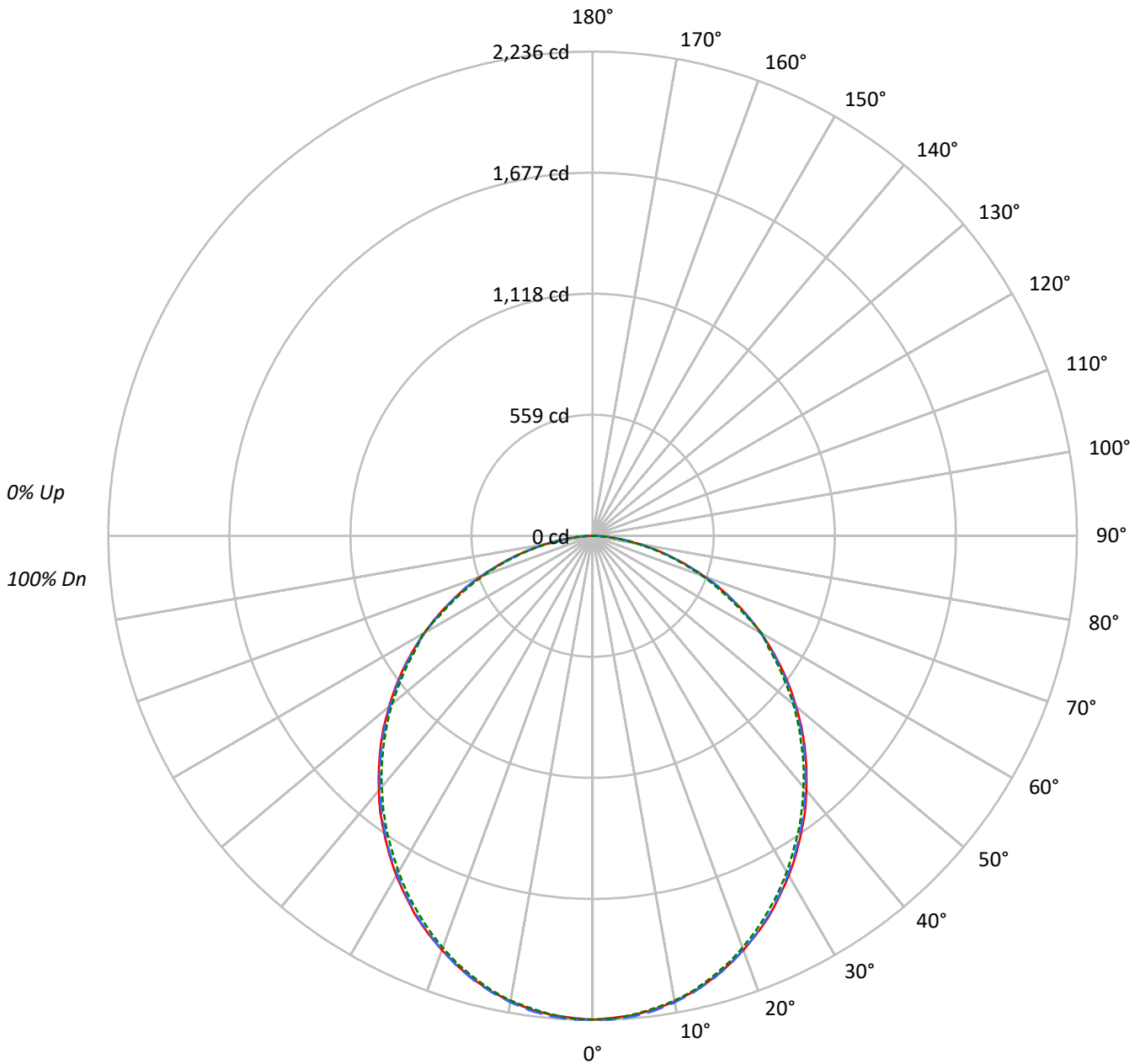
Lumens per Lamp: N/A  
Luminaire Lumens: 5951.0 lumens  
Efficiency: N/A  
Efficacy: 90.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	3006	3006	3006
5°	2999	3008	2996
10°	2982	2989	2978
15°	2954	2959	2943
20°	2915	2914	2898
25°	2871	2865	2842
30°	2815	2805	2784
35°	2756	2746	2724
40°	2697	2683	2660
45°	2636	2622	2595
50°	2568	2557	2532
55°	2498	2484	2452
60°	2414	2398	2431
65°	2304	2297	2253
70°	2162	2164	2105
75°	1962	1947	1903
80°	1686	1664	1619
85°	1289	1277	1179



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.0	3.5
10°-20°	597.8	10.0
20°-30°	887.3	14.9
30°-40°	1044.5	17.6
40°-50°	1061.4	17.8
50°-60°	943.6	15.9
60°-70°	711.8	12.0
70°-80°	395.3	6.6
80°-90°	98.3	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°	1696.2	28.5
0°-40°	2740.6	46.1
0°-60°	4745.6	79.7
0°-90°	5951.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5951.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2234	2234	2234	2234	2234	
5°	2221	2224	2227	2224	2218	211
15°	2121	2123	2124	2119	2113	598
25°	1934	1932	1930	1921	1915	890
35°	1678	1678	1672	1662	1658	1050
45°	1385	1385	1378	1366	1364	1068
55°	1065	1057	1059	1048	1045	951
65°	724	719	722	712	708	716
75°	378	372	375	372	366	400
85°	84	81	83	79	76	100
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2234.3	2234.3	2234.3	2234.3	2234.3
2.5°	2228.6	2232.8	2235.7	2232.2	2231.4
5°	2220.8	2224.2	2227.1	2223.6	2217.9
7.5°	2205.0	2209.3	2211.4	2207.8	2200.0
10°	2182.9	2187.2	2187.8	2184.4	2180.0
12.5°	2155.8	2158.6	2158.6	2155.8	2150.8
15°	2120.8	2123.0	2124.4	2119.4	2112.9
17.5°	2080.9	2084.4	2083.0	2075.2	2072.3
20°	2035.9	2038.8	2035.2	2030.2	2023.8
22.5°	1986.6	1987.4	1984.5	1978.8	1972.3
25°	1933.8	1932.5	1929.6	1921.0	1914.6
27.5°	1872.5	1875.3	1868.1	1860.3	1856.1
30°	1811.9	1812.5	1805.4	1795.4	1791.9
32.5°	1746.9	1745.4	1740.5	1729.8	1724.1
35°	1677.6	1678.4	1671.9	1662.0	1658.4
37.5°	1610.5	1606.3	1601.4	1589.9	1587.7
40°	1535.6	1534.9	1527.8	1517.8	1514.3
42.5°	1460.8	1460.0	1454.3	1444.4	1441.5
45°	1385.1	1385.1	1377.9	1366.5	1363.6
47.5°	1308.0	1305.1	1300.2	1290.2	1286.6
50°	1226.6	1224.5	1221.7	1210.2	1209.5
52.5°	1146.8	1145.3	1140.3	1130.4	1124.7
55°	1064.7	1056.8	1059.0	1047.5	1045.4
57.5°	980.5	972.6	976.9	966.9	962.7
60°	897.0	889.2	891.3	884.8	903.5
62.5°	811.4	806.3	806.3	821.4	794.3
65°	723.6	719.3	721.5	712.2	707.8
67.5°	637.3	630.8	644.4	627.2	620.1
70°	549.5	545.1	550.2	540.2	535.2
72.5°	462.4	458.8	457.4	453.8	449.6
75°	377.5	372.5	374.6	371.7	366.0
77.5°	294.7	293.2	292.6	289.0	284.7
80°	217.6	216.2	214.7	211.9	209.0
82.5°	145.6	144.2	143.5	142.0	141.3
85°	83.5	81.4	82.7	79.2	76.4
87.5°	31.4	30.7	32.2	29.3	27.1
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)