

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: P735721

Luminaire Tested: **24APR-58-B2750-W2D-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P735721  
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-58-B2750-W2D-4000K  
Description: 2X4 5800 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 4000K CCT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

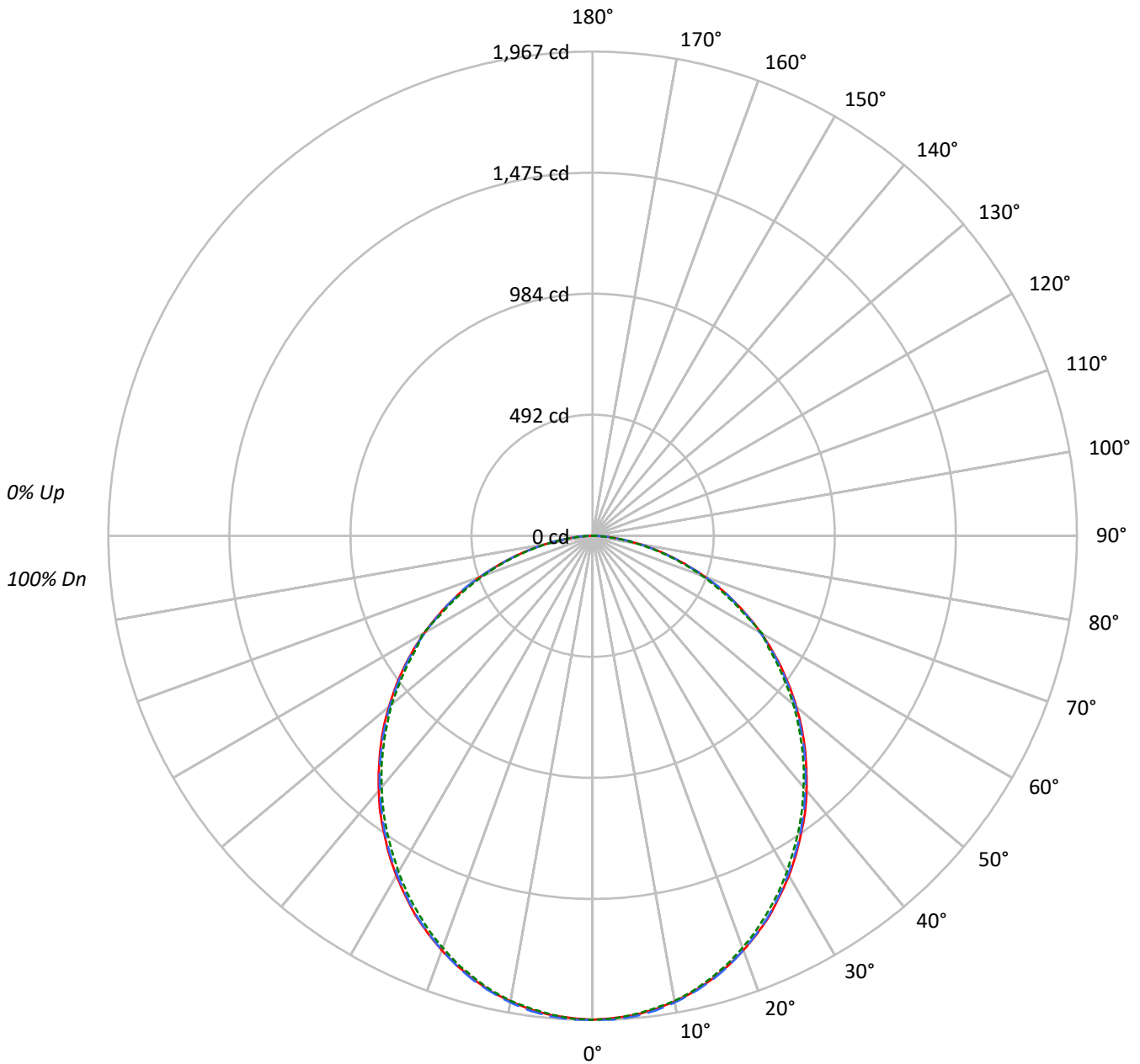
Lumens per Lamp: N/A  
Luminaire Lumens: 5237.0 lumens  
Efficiency: N/A  
Efficacy: 91.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 57  
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°	2646	2646	2646
5°	2640	2647	2636
10°	2625	2630	2621
15°	2600	2604	2590
20°	2565	2564	2550
25°	2526	2521	2501
30°	2477	2468	2450
35°	2425	2417	2397
40°	2374	2361	2341
45°	2319	2307	2283
50°	2260	2250	2228
55°	2198	2186	2158
60°	2124	2111	2140
65°	2027	2021	1983
70°	1902	1905	1853
75°	1727	1714	1674
80°	1484	1464	1426
85°	1135	1124	1037



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.7	3.5
10°-20°	526.1	10.0
20°-30°	780.9	14.9
30°-40°	919.1	17.6
40°-50°	934.1	17.8
50°-60°	830.4	15.9
60°-70°	626.4	12.0
70°-80°	347.9	6.6
80°-90°	86.5	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°	1492.7	28.5
0°-40°	2411.8	46.1
0°-60°	4176.2	79.7
0°-90°	5237.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5237.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1966	1966	1966	1966	1966	
5°	1954	1957	1960	1957	1952	185
15°	1866	1868	1870	1865	1859	526
25°	1702	1701	1698	1691	1685	783
35°	1476	1477	1471	1463	1459	924
45°	1219	1219	1213	1202	1200	940
55°	937	930	932	922	920	837
65°	637	633	635	627	623	630
75°	332	328	330	327	322	352
85°	74	72	73	70	67	88
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1966.2	1966.2	1966.2	1966.2	1966.2
2.5°	1961.2	1964.9	1967.4	1964.4	1963.7
5°	1954.3	1957.4	1959.9	1956.8	1951.8
7.5°	1940.4	1944.3	1946.1	1942.9	1936.1
10°	1921.0	1924.8	1925.3	1922.3	1918.5
12.5°	1897.1	1899.7	1899.7	1897.1	1892.8
15°	1866.3	1868.3	1869.5	1865.1	1859.4
17.5°	1831.2	1834.3	1833.1	1826.2	1823.7
20°	1791.7	1794.2	1791.0	1786.6	1781.0
22.5°	1748.3	1748.9	1746.4	1741.4	1735.7
25°	1701.8	1700.6	1698.1	1690.6	1684.9
27.5°	1647.8	1650.3	1644.0	1637.1	1633.4
30°	1594.5	1595.0	1588.8	1579.9	1576.9
32.5°	1537.3	1536.0	1531.6	1522.2	1517.2
35°	1476.3	1477.0	1471.3	1462.6	1459.4
37.5°	1417.3	1413.6	1409.2	1399.2	1397.2
40°	1351.4	1350.7	1344.5	1335.7	1332.6
42.5°	1285.5	1284.8	1279.8	1271.1	1268.6
45°	1218.9	1218.9	1212.6	1202.5	1200.0
47.5°	1151.1	1148.5	1144.2	1135.4	1132.3
50°	1079.5	1077.6	1075.1	1065.0	1064.4
52.5°	1009.2	1007.9	1003.5	994.8	989.7
55°	936.9	930.0	931.9	921.8	920.0
57.5°	862.8	855.9	859.7	850.9	847.2
60°	789.4	782.5	784.3	778.7	795.1
62.5°	714.1	709.6	709.6	722.8	699.0
65°	636.8	633.0	634.9	626.7	622.9
67.5°	560.8	555.1	567.1	552.0	545.7
70°	483.5	479.7	484.2	475.4	471.0
72.5°	406.9	403.8	402.6	399.4	395.7
75°	332.2	327.8	329.7	327.1	322.1
77.5°	259.4	258.1	257.5	254.3	250.5
80°	191.5	190.3	189.0	186.5	184.0
82.5°	128.1	126.9	126.2	124.9	124.4
85°	73.5	71.6	72.8	69.7	67.2
87.5°	27.7	27.0	28.3	25.8	23.8
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)