

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: P735735

Luminaire Tested: **24APR-67-B2750-W2D-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P735735  
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-3500K  
Description: 2X4 6700 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 3500K CCT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

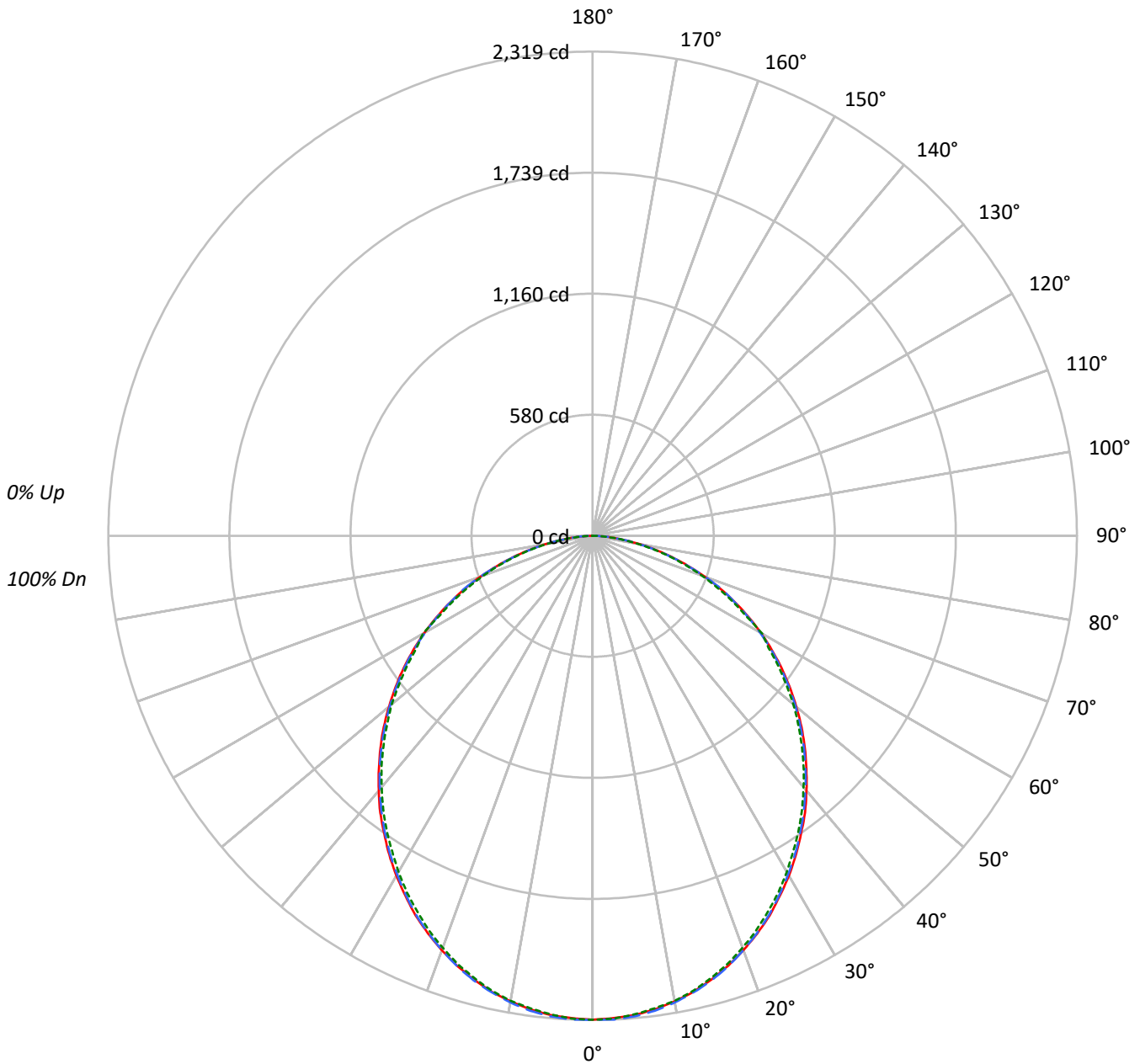
Lumens per Lamp: N/A  
Luminaire Lumens: 6174.0 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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					20					
RC	80					70					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°	3119	3119	3119
5°	3112	3121	3108
10°	3094	3101	3090
15°	3065	3070	3053
20°	3024	3023	3006
25°	2979	2972	2949
30°	2921	2910	2888
35°	2859	2849	2826
40°	2798	2784	2759
45°	2734	2720	2692
50°	2664	2653	2627
55°	2591	2577	2544
60°	2504	2488	2522
65°	2390	2383	2338
70°	2243	2245	2184
75°	2036	2020	1974
80°	1750	1726	1681
85°	1337	1325	1223



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.9	3.5
10°-20°	620.2	10.0
20°-30°	920.6	14.9
30°-40°	1083.6	17.6
40°-50°	1101.2	17.8
50°-60°	978.9	15.9
60°-70°	738.4	12.0
70°-80°	410.1	6.6
80°-90°	102.0	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°	1759.7	28.5
0°-40°	2843.3	46.1
0°-60°	4923.4	79.7
0°-90°	6174.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6174.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2318	2318	2318	2318	2318	
5°	2304	2308	2310	2307	2301	219
15°	2200	2203	2204	2199	2192	620
25°	2006	2005	2002	1993	1986	923
35°	1740	1741	1734	1724	1720	1090
45°	1437	1437	1430	1418	1415	1108
55°	1105	1096	1099	1087	1085	987
65°	751	746	748	739	734	743
75°	392	386	389	386	380	415
85°	87	84	86	82	79	104
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2318.0	2318.0	2318.0	2318.0	2318.0
2.5°	2312.1	2316.5	2319.4	2315.8	2315.1
5°	2304.0	2307.6	2310.5	2306.9	2301.0
7.5°	2287.6	2292.1	2294.3	2290.6	2282.4
10°	2264.7	2269.2	2269.8	2266.2	2261.7
12.5°	2236.6	2239.5	2239.5	2236.6	2231.4
15°	2200.2	2202.6	2204.0	2198.8	2192.1
17.5°	2158.9	2162.5	2161.1	2152.9	2150.0
20°	2112.2	2115.2	2111.5	2106.3	2099.6
22.5°	2061.1	2061.8	2058.9	2053.0	2046.3
25°	2006.3	2004.9	2001.9	1993.0	1986.3
27.5°	1942.7	1945.6	1938.1	1930.0	1925.6
30°	1879.8	1880.4	1873.1	1862.6	1859.0
32.5°	1812.4	1810.8	1805.7	1794.6	1788.7
35°	1740.5	1741.2	1734.5	1724.2	1720.5
37.5°	1670.9	1666.5	1661.4	1649.5	1647.2
40°	1593.2	1592.4	1585.1	1574.6	1571.0
42.5°	1515.5	1514.7	1508.8	1498.5	1495.5
45°	1437.0	1437.0	1429.5	1417.7	1414.7
47.5°	1357.0	1354.0	1348.9	1338.6	1334.8
50°	1272.6	1270.4	1267.4	1255.6	1254.8
52.5°	1189.7	1188.2	1183.0	1172.7	1166.8
55°	1104.6	1096.4	1098.6	1086.8	1084.6
57.5°	1017.2	1009.1	1013.5	1003.2	998.8
60°	930.6	922.5	924.7	918.0	937.3
62.5°	841.8	836.5	836.5	852.1	824.0
65°	750.7	746.2	748.5	738.9	734.4
67.5°	661.2	654.5	668.5	650.7	643.4
70°	570.1	565.6	570.8	560.4	555.2
72.5°	479.7	476.0	474.6	470.8	466.5
75°	391.6	386.4	388.6	385.7	379.7
77.5°	305.8	304.2	303.6	299.9	295.3
80°	225.8	224.3	222.8	219.8	216.9
82.5°	151.0	149.6	148.8	147.3	146.6
85°	86.6	84.4	85.8	82.2	79.2
87.5°	32.6	31.8	33.4	30.4	28.1
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)