

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: P735745

Luminaire Tested: **24APR-67-B2750-W2D-CP250-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P735745  
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-CP250-3500K  
Description: 2X4 6700 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 3500K CCT, AND CP250 LENS

Light Source: -  
Ballast/Driver: -

**Summary**

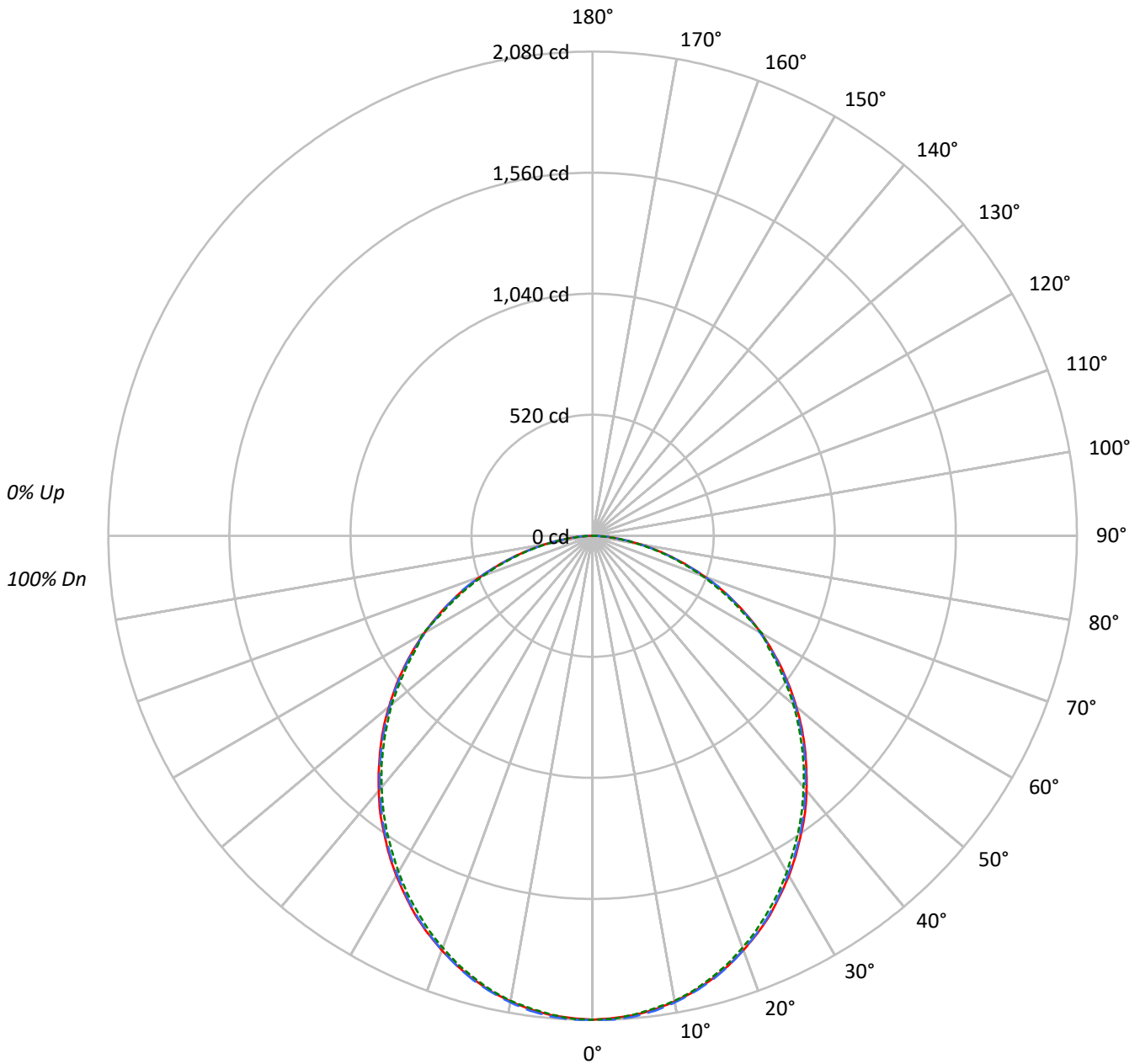
Lumens per Lamp: N/A  
Luminaire Lumens: 5538.0 lumens  
Efficiency: N/A  
Efficacy: 83.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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					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°	2798	2798	2798
5°	2791	2799	2788
10°	2775	2782	2772
15°	2749	2754	2739
20°	2713	2712	2697
25°	2672	2666	2645
30°	2620	2610	2591
35°	2564	2556	2535
40°	2510	2497	2475
45°	2453	2440	2415
50°	2389	2380	2356
55°	2324	2312	2282
60°	2246	2232	2263
65°	2144	2138	2097
70°	2011	2014	1959
75°	1826	1812	1771
80°	1569	1548	1507
85°	1200	1189	1098



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	196.4	3.5
10°-20°	556.3	10.0
20°-30°	825.7	14.9
30°-40°	972.0	17.6
40°-50°	987.8	17.8
50°-60°	878.1	15.9
60°-70°	662.4	12.0
70°-80°	367.9	6.6
80°-90°	91.5	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°	1578.4	28.5
0°-40°	2550.4	46.1
0°-60°	4416.3	79.7
0°-90°	5538.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5538.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2079	2079	2079	2079	2079	
5°	2067	2070	2072	2069	2064	196
15°	1974	1976	1977	1972	1966	556
25°	1800	1798	1796	1788	1782	828
35°	1561	1562	1556	1547	1543	977
45°	1289	1289	1282	1272	1269	994
55°	991	984	986	975	973	885
65°	673	669	671	663	659	667
75°	351	347	349	346	341	372
85°	78	76	77	74	71	93
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2079.2	2079.2	2079.2	2079.2	2079.2
2.5°	2073.9	2077.8	2080.5	2077.3	2076.6
5°	2066.6	2069.9	2072.5	2069.3	2064.0
7.5°	2052.0	2056.0	2058.0	2054.6	2047.3
10°	2031.4	2035.4	2036.0	2032.8	2028.7
12.5°	2006.2	2008.8	2008.8	2006.2	2001.6
15°	1973.6	1975.7	1976.9	1972.3	1966.3
17.5°	1936.5	1939.7	1938.4	1931.2	1928.5
20°	1894.6	1897.3	1893.9	1889.3	1883.3
22.5°	1848.8	1849.4	1846.8	1841.5	1835.5
25°	1799.6	1798.4	1795.7	1787.7	1781.7
27.5°	1742.5	1745.2	1738.5	1731.2	1727.3
30°	1686.1	1686.7	1680.1	1670.8	1667.5
32.5°	1625.7	1624.3	1619.7	1609.7	1604.4
35°	1561.2	1561.9	1555.9	1546.6	1543.3
37.5°	1498.8	1494.8	1490.2	1479.6	1477.5
40°	1429.1	1428.4	1421.8	1412.4	1409.2
42.5°	1359.4	1358.7	1353.4	1344.1	1341.5
45°	1289.0	1289.0	1282.3	1271.6	1269.0
47.5°	1217.2	1214.6	1209.9	1200.7	1197.3
50°	1141.5	1139.5	1136.9	1126.2	1125.6
52.5°	1067.2	1065.8	1061.2	1051.9	1046.6
55°	990.8	983.5	985.5	974.8	972.9
57.5°	912.4	905.1	909.1	899.8	895.9
60°	834.7	827.5	829.4	823.4	840.8
62.5°	755.1	750.4	750.4	764.4	739.2
65°	673.4	669.3	671.4	662.8	658.7
67.5°	593.1	587.0	599.6	583.7	577.1
70°	511.3	507.3	512.0	502.7	498.0
72.5°	430.3	427.0	425.7	422.3	418.4
75°	351.3	346.6	348.6	345.9	340.6
77.5°	274.3	272.9	272.3	269.0	264.9
80°	202.5	201.2	199.8	197.2	194.5
82.5°	135.5	134.2	133.5	132.1	131.5
85°	77.7	75.7	77.0	73.7	71.1
87.5°	29.2	28.5	29.9	27.3	25.2
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)