

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: P735723

Luminaire Tested: **24APR-58-B2750-W2D-CP125-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P735723  
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-CP125-2700K  
Description: 2X4 5800 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 2700K CCT, AND CP125 LENS

Light Source: -  
Ballast/Driver: -

**Summary**

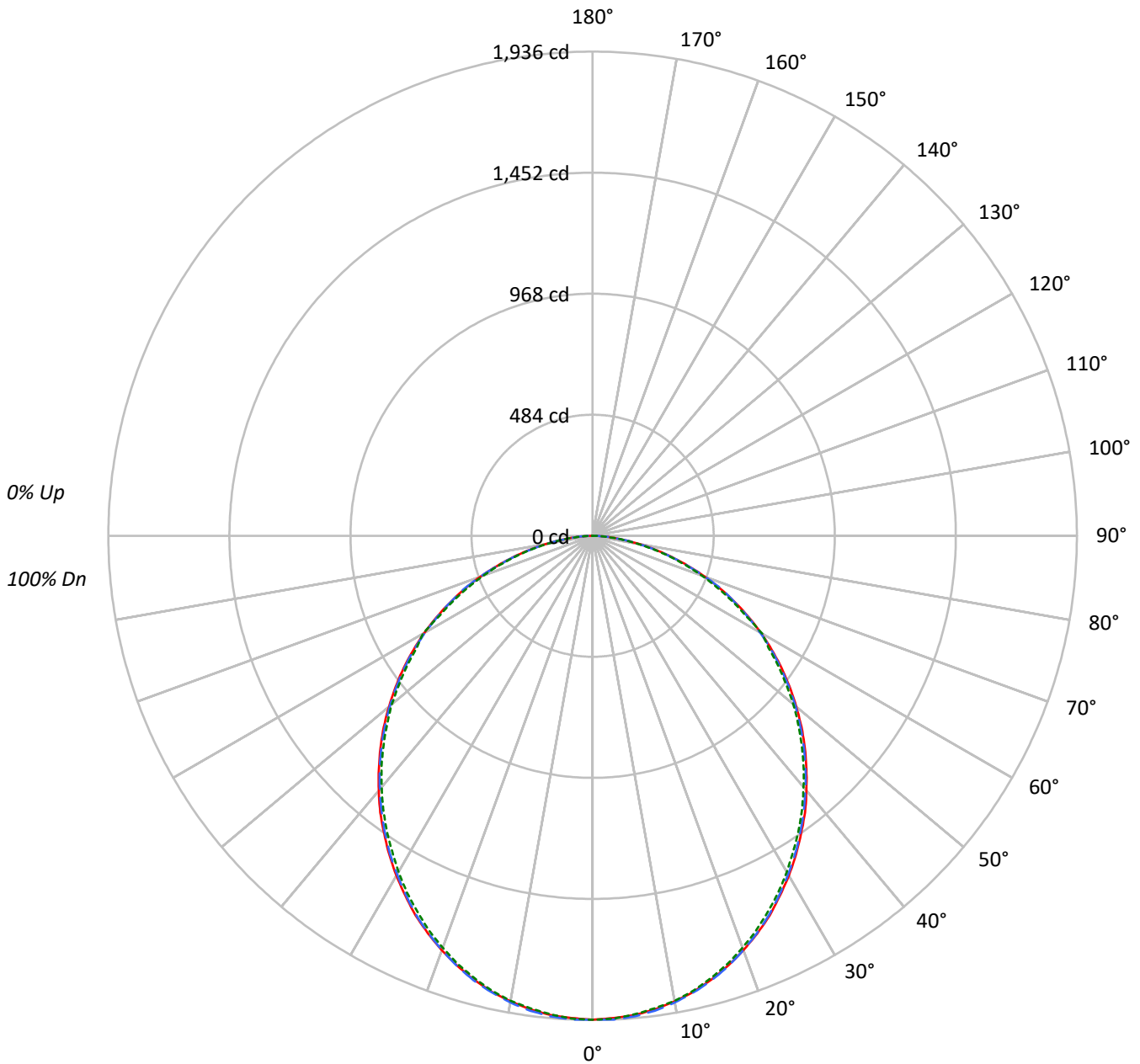
Lumens per Lamp: N/A  
Luminaire Lumens: 5154.0 lumens  
Efficiency: N/A  
Efficacy: 90.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	2604	2604	2604
5°	2598	2605	2594
10°	2583	2589	2579
15°	2558	2563	2549
20°	2525	2524	2510
25°	2486	2481	2462
30°	2438	2429	2411
35°	2386	2378	2359
40°	2336	2324	2304
45°	2283	2271	2247
50°	2224	2215	2193
55°	2163	2151	2124
60°	2091	2077	2106
65°	1995	1989	1952
70°	1872	1875	1823
75°	1699	1686	1648
80°	1461	1441	1402
85°	1116	1105	1022



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.8	3.5
10°-20°	517.7	10.0
20°-30°	768.5	14.9
30°-40°	904.6	17.6
40°-50°	919.3	17.8
50°-60°	817.2	15.9
60°-70°	616.4	12.0
70°-80°	342.4	6.6
80°-90°	85.1	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°	1469.0	28.5
0°-40°	2373.6	46.1
0°-60°	4110.1	79.7
0°-90°	5154.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5154.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1935	1935	1935	1935	1935	
5°	1923	1926	1929	1926	1921	183
15°	1837	1839	1840	1836	1830	518
25°	1675	1674	1671	1664	1658	771
35°	1453	1454	1448	1439	1436	910
45°	1200	1200	1193	1184	1181	925
55°	922	915	917	907	905	824
65°	627	623	625	617	613	620
75°	327	323	324	322	317	347
85°	72	70	72	69	66	87
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1935.1	1935.1	1935.1	1935.1	1935.1
2.5°	1930.1	1933.8	1936.2	1933.2	1932.6
5°	1923.3	1926.3	1928.8	1925.8	1920.9
7.5°	1909.7	1913.4	1915.3	1912.1	1905.4
10°	1890.5	1894.3	1894.8	1891.8	1888.0
12.5°	1867.1	1869.5	1869.5	1867.1	1862.8
15°	1836.7	1838.7	1839.9	1835.6	1830.0
17.5°	1802.2	1805.2	1804.0	1797.3	1794.8
20°	1763.3	1765.7	1762.6	1758.3	1752.7
22.5°	1720.6	1721.2	1718.7	1713.8	1708.2
25°	1674.8	1673.7	1671.2	1663.8	1658.2
27.5°	1621.7	1624.2	1617.9	1611.2	1607.5
30°	1569.2	1569.8	1563.6	1554.9	1551.9
32.5°	1513.0	1511.7	1507.4	1498.1	1493.2
35°	1452.9	1453.6	1448.0	1439.4	1436.3
37.5°	1394.8	1391.2	1386.9	1377.0	1375.1
40°	1330.0	1329.3	1323.2	1314.5	1311.5
42.5°	1265.1	1264.5	1259.5	1250.9	1248.4
45°	1199.6	1199.6	1193.4	1183.5	1181.0
47.5°	1132.8	1130.3	1126.0	1117.4	1114.3
50°	1062.4	1060.5	1058.0	1048.2	1047.5
52.5°	993.2	991.9	987.6	979.0	974.0
55°	922.1	915.3	917.1	907.2	905.4
57.5°	849.1	842.4	846.0	837.4	833.8
60°	776.9	770.1	771.9	766.3	782.5
62.5°	702.7	698.3	698.3	711.4	687.9
65°	626.7	622.9	624.9	616.8	613.0
67.5°	551.9	546.3	558.1	543.2	537.1
70°	475.9	472.1	476.5	467.8	463.5
72.5°	400.5	397.4	396.2	393.1	389.4
75°	326.9	322.6	324.4	322.0	317.0
77.5°	255.3	254.0	253.4	250.3	246.5
80°	188.5	187.3	186.0	183.5	181.0
82.5°	126.1	124.9	124.2	123.0	122.4
85°	72.3	70.5	71.6	68.6	66.2
87.5°	27.2	26.6	27.9	25.4	23.5
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)