

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: P735702

Luminaire Tested: **22APR-38-B2750-W2D-CP250-5000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P735702  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P708781)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 22APR-38-B2750-W2D-CP250-5000K  
Description: 2X2 3800 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 5000K CCT, AND CP250 LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

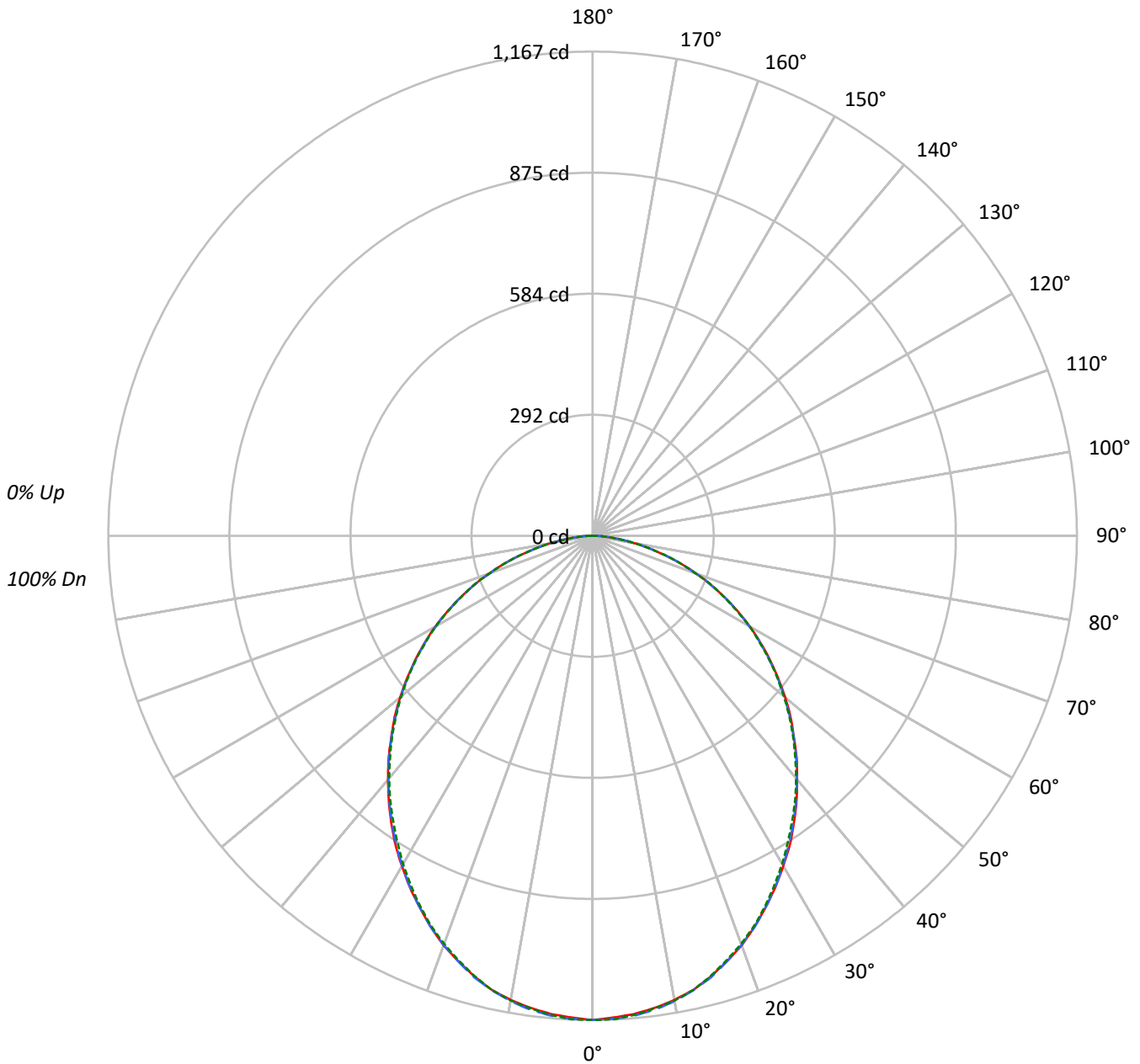
Lumens per Lamp: N/A  
Luminaire Lumens: 2982.0 lumens  
Efficiency: N/A  
Efficacy: 69.3 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 43  
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	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71																			
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60																			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51																			
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45																			
6	71	58	49	43	69	57	48	42	55	47	42	53	47	42	52	46	41	39																			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35																			
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31																			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28																			
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3141	3141	3141
5°	3125	3136	3131
10°	3104	3112	3108
15°	3063	3070	3061
20°	3008	3005	2996
25°	2932	2932	2922
30°	2856	2853	2838
35°	2778	2770	2754
40°	2693	2690	2679
45°	2611	2608	2598
50°	2534	2524	2518
55°	2447	2435	2435
60°	2356	2347	2352
65°	2232	2238	2223
70°	2087	2074	2074
75°	1860	1869	1869
80°	1573	1573	1587
85°	1192	1192	1220



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.1	3.7
10°-20°	310.1	10.4
20°-30°	454.7	15.2
30°-40°	527.5	17.7
40°-50°	528.9	17.7
50°-60°	465.2	15.6
60°-70°	347.1	11.6
70°-80°	191.0	6.4
80°-90°	47.3	1.6
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°	874.9	29.3
0°-40°	1402.5	47.0
0°-60°	2396.6	80.4
0°-90°	2982.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2982.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1167	1167	1167	1167	1167	
5°	1157	1161	1161	1161	1159	110
15°	1100	1104	1102	1100	1099	310
25°	987	992	987	987	984	455
35°	846	846	843	841	838	529
45°	686	688	685	684	683	530
55°	522	522	519	520	519	466
65°	351	351	352	350	349	348
75°	179	180	180	178	180	191
85°	39	40	39	39	40	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1167.2	1167.2	1167.2	<i>1167.2</i>	1167.2
2.5°	<i>1162.3</i>	<i>1166.4</i>	<i>1165.5</i>	<i>1168.1</i>	<i>1166.4</i>
5°	1156.8	1160.8	1160.8	<i>1160.8</i>	1159.1
7.5°	1147.8	1151.9	1151.9	<i>1151.9</i>	1148.7
10°	1135.8	1139.9	1139.0	<i>1139.0</i>	1137.4
12.5°	1121.3	1123.7	1122.0	<i>1122.0</i>	1121.3
15°	1099.6	1104.3	1101.9	<i>1100.3</i>	1098.7
17.5°	1075.3	1080.2	1076.1	<i>1075.3</i>	1072.9
20°	1050.3	1053.5	1049.5	<i>1049.5</i>	1046.3
22.5°	1019.7	1022.9	1020.5	<i>1019.0</i>	1017.3
25°	987.4	991.5	987.4	<i>986.6</i>	984.2
27.5°	954.4	957.6	953.5	<i>950.3</i>	948.8
30°	919.0	921.3	918.1	<i>915.8</i>	913.2
32.5°	884.2	884.2	881.0	<i>878.7</i>	875.4
35°	845.6	846.4	843.2	<i>840.7</i>	838.3
37.5°	807.0	808.5	805.3	<i>802.9</i>	801.2
40°	766.7	768.2	765.8	<i>763.3</i>	762.6
42.5°	727.9	727.9	726.4	<i>723.8</i>	722.3
45°	686.0	688.4	685.2	<i>684.4</i>	682.7
47.5°	647.3	647.3	644.1	<i>642.4</i>	642.4
50°	605.4	607.0	602.9	<i>602.1</i>	601.4
52.5°	563.5	562.6	561.8	<i>561.1</i>	560.2
55°	521.5	522.3	519.1	<i>519.9</i>	519.1
57.5°	479.6	478.8	478.0	<i>477.3</i>	476.4
60°	437.7	437.0	436.1	<i>435.3</i>	437.0
62.5°	394.1	395.0	392.6	<i>395.0</i>	391.8
65°	350.6	350.6	351.5	<i>349.8</i>	349.1
67.5°	308.8	308.8	307.1	<i>307.1</i>	310.3
70°	265.3	266.0	263.6	<i>266.8</i>	263.6
72.5°	222.5	223.3	222.5	<i>221.6</i>	223.3
75°	178.9	179.8	179.8	<i>178.1</i>	179.8
77.5°	139.5	140.3	139.5	<i>138.6</i>	139.5
80°	101.5	102.4	101.5	<i>100.7</i>	102.4
82.5°	67.6	68.5	67.6	<i>67.6</i>	68.5
85°	38.6	39.5	38.6	<i>38.6</i>	39.5
87.5°	15.3	16.2	16.2	<i>16.2</i>	16.2
90°	0.0	0.0	0.0	<i>0.0</i>	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)