

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: P735698

Luminaire Tested: **22APR-38-B2750-W2D-CP250-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P735698  
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-CP250-2700K  
Description: 2X2 3800 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 2700K CCT, AND CP250 LENS

Light Source: -  
Ballast/Driver: -

**Summary**

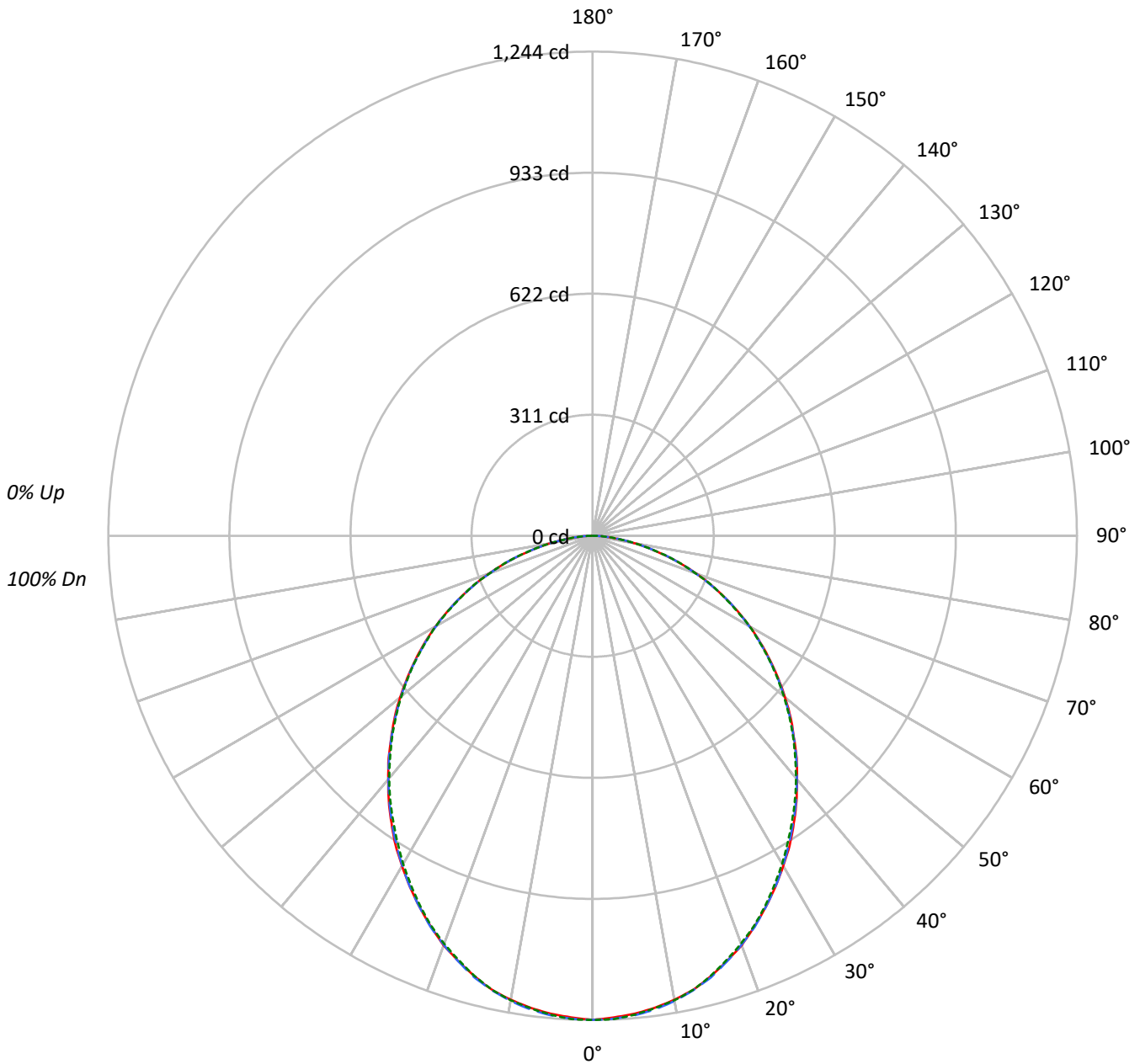
Lumens per Lamp: N/A  
Luminaire Lumens: 3178.0 lumens  
Efficiency: N/A  
Efficacy: 73.9 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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°	3347	3347	3347
5°	3330	3342	3337
10°	3308	3317	3312
15°	3265	3272	3262
20°	3206	3203	3193
25°	3124	3124	3114
30°	3043	3040	3024
35°	2961	2952	2935
40°	2870	2867	2855
45°	2782	2779	2769
50°	2701	2690	2683
55°	2607	2595	2595
60°	2510	2502	2506
65°	2379	2385	2369
70°	2224	2210	2210
75°	1983	1992	1992
80°	1677	1677	1691
85°	1272	1272	1300



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.3	3.7
10°-20°	330.5	10.4
20°-30°	484.6	15.2
30°-40°	562.2	17.7
40°-50°	563.7	17.7
50°-60°	495.8	15.6
60°-70°	370.0	11.6
70°-80°	203.6	6.4
80°-90°	50.4	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°	932.4	29.3
0°-40°	1494.7	47.0
0°-60°	2554.1	80.4
0°-90°	3178.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3178.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1244	1244	1244	1244	1244	
5°	1233	1237	1237	1237	1235	117
15°	1172	1177	1174	1173	1171	330
25°	1052	1057	1052	1051	1049	485
35°	901	902	899	896	893	564
45°	731	734	730	729	728	565
55°	556	557	553	554	553	497
65°	374	374	375	373	372	370
75°	191	192	192	190	192	203
85°	41	42	41	41	42	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1243.9	1243.9	1243.9	1243.9	1243.9
2.5°	1238.7	1243.0	1242.1	1244.8	1243.0
5°	1232.8	1237.1	1237.1	1237.1	1235.3
7.5°	1223.3	1227.6	1227.6	1227.6	1224.2
10°	1210.5	1214.8	1213.9	1213.9	1212.1
12.5°	1195.0	1197.6	1195.8	1195.8	1195.0
15°	1171.8	1176.9	1174.4	1172.6	1171.0
17.5°	1146.0	1151.2	1146.9	1146.0	1143.5
20°	1119.4	1122.8	1118.5	1118.5	1115.1
22.5°	1086.7	1090.1	1087.6	1085.9	1084.1
25°	1052.3	1056.7	1052.3	1051.4	1048.9
27.5°	1017.1	1020.5	1016.2	1012.8	1011.2
30°	979.4	981.9	978.5	975.9	973.3
32.5°	942.4	942.4	938.9	936.4	933.0
35°	901.2	902.1	898.7	896.0	893.4
37.5°	860.0	861.6	858.2	855.7	853.9
40°	817.1	818.7	816.2	813.5	812.7
42.5°	775.7	775.7	774.1	771.4	769.8
45°	731.1	733.7	730.2	729.4	727.6
47.5°	689.8	689.8	686.4	684.6	684.6
50°	645.2	646.9	642.6	641.7	640.9
52.5°	600.5	599.6	598.7	598.0	597.1
55°	555.7	556.6	553.2	554.1	553.2
57.5°	511.2	510.3	509.4	508.6	507.7
60°	466.4	465.7	464.8	463.9	465.7
62.5°	420.0	420.9	418.4	420.9	417.5
65°	373.7	373.7	374.6	372.8	372.0
67.5°	329.1	329.1	327.3	327.3	330.7
70°	282.7	283.4	280.9	284.3	280.9
72.5°	237.1	238.0	237.1	236.2	238.0
75°	190.7	191.6	191.6	189.8	191.6
77.5°	148.6	149.5	148.6	147.7	148.6
80°	108.2	109.1	108.2	107.3	109.1
82.5°	72.1	73.0	72.1	72.1	73.0
85°	41.2	42.1	41.2	41.2	42.1
87.5°	16.3	17.2	17.2	17.2	17.2
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)