

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: P735688

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P735688  
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-2700K  
Description: 2X2 3800 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 2700K CCT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

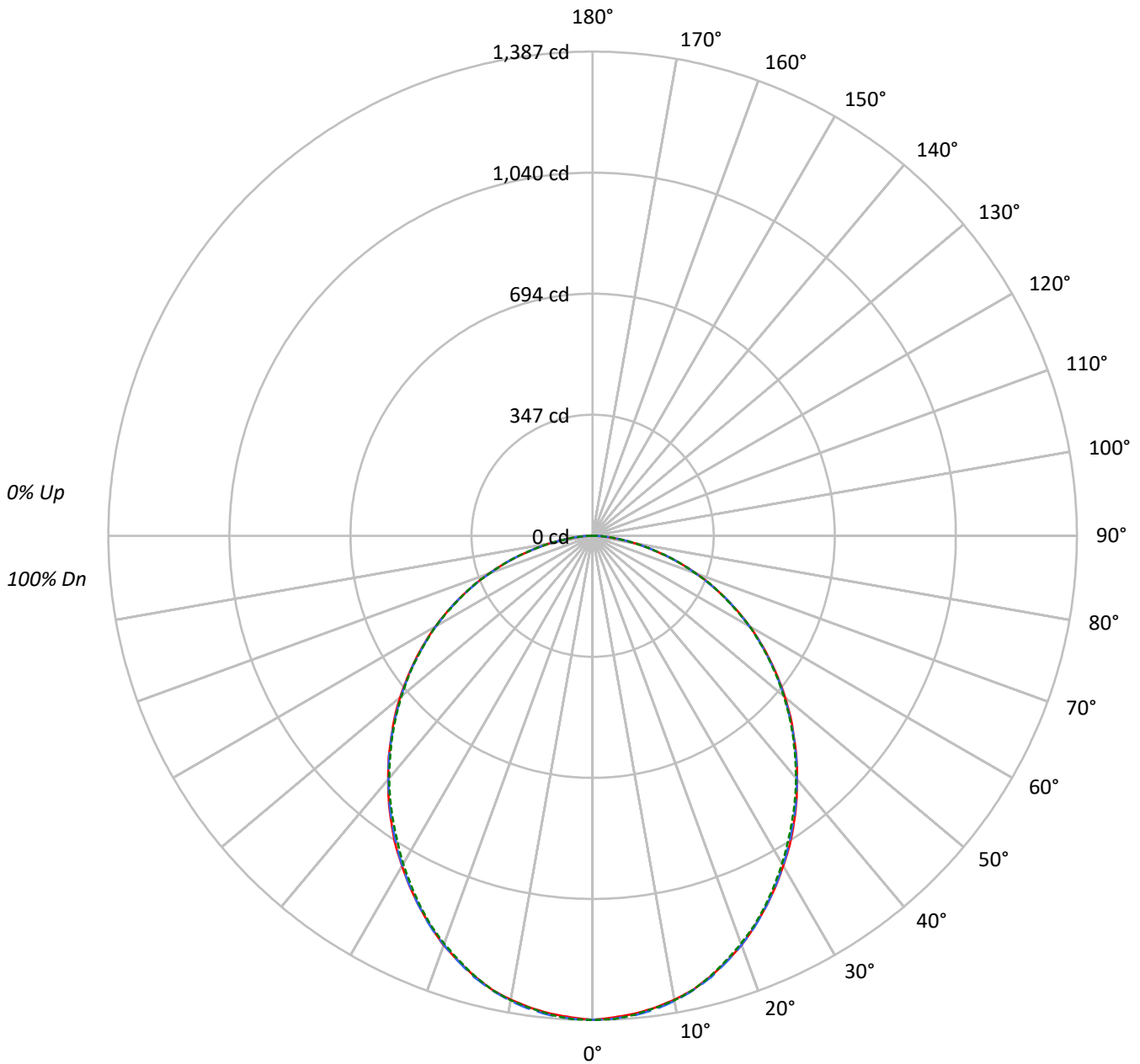
Lumens per Lamp: N/A  
Luminaire Lumens: 3543.0 lumens  
Efficiency: N/A  
Efficacy: 82.4 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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°	3732	3732	3732
5°	3713	3726	3720
10°	3687	3698	3692
15°	3640	3648	3637
20°	3574	3571	3560
25°	3483	3483	3472
30°	3393	3389	3371
35°	3301	3291	3272
40°	3200	3196	3183
45°	3102	3098	3087
50°	3011	2999	2991
55°	2907	2894	2894
60°	2799	2789	2794
65°	2653	2659	2641
70°	2480	2464	2464
75°	2210	2221	2221
80°	1869	1869	1884
85°	1417	1417	1448



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.8	3.7
10°-20°	368.5	10.4
20°-30°	540.3	15.2
30°-40°	626.8	17.7
40°-50°	628.4	17.7
50°-60°	552.7	15.6
60°-70°	412.5	11.6
70°-80°	227.0	6.4
80°-90°	56.2	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°	1039.5	29.3
0°-40°	1666.3	47.0
0°-60°	2847.4	80.4
0°-90°	3543.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3543.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1387	1387	1387	1387	1387	
5°	1374	1379	1379	1379	1377	130
15°	1306	1312	1309	1307	1305	368
25°	1173	1178	1173	1172	1169	540
35°	1005	1006	1002	999	996	628
45°	815	818	814	813	811	630
55°	620	621	617	618	617	554
65°	417	417	418	416	415	413
75°	213	214	214	212	214	227
85°	46	47	46	46	47	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1386.8	1386.8	1386.8	<i>1386.8</i>	1386.8
2.5°	<i>1381.0</i>	<i>1385.8</i>	<i>1384.8</i>	<i>1387.8</i>	<i>1385.8</i>
5°	1374.4	1379.2	1379.2	<i>1379.2</i>	1377.2
7.5°	1363.8	1368.6	1368.6	<i>1368.6</i>	1364.8
10°	1349.5	1354.3	1353.3	<i>1353.3</i>	1351.3
12.5°	1332.3	1335.1	1333.1	<i>1333.1</i>	1332.3
15°	1306.4	1312.1	1309.3	<i>1307.3</i>	1305.4
17.5°	1277.6	1283.4	1278.6	<i>1277.6</i>	1274.8
20°	1247.9	1251.7	1246.9	<i>1246.9</i>	1243.1
22.5°	1211.5	1215.3	1212.5	<i>1210.7</i>	1208.7
25°	1173.2	1178.0	1173.2	<i>1172.2</i>	1169.4
27.5°	1133.9	1137.7	1132.9	<i>1129.1</i>	1127.3
30°	1091.8	1094.7	1090.8	<i>1088.0</i>	1085.0
32.5°	1050.6	1050.6	1046.8	<i>1044.0</i>	1040.1
35°	1004.7	1005.7	1001.9	<i>998.9</i>	996.1
37.5°	958.8	960.6	956.8	<i>954.0</i>	952.0
40°	910.9	912.7	909.9	<i>906.9</i>	906.1
42.5°	864.8	864.8	863.0	<i>860.0</i>	858.2
45°	815.1	817.9	814.1	<i>813.1</i>	811.1
47.5°	769.0	769.0	765.2	<i>763.2</i>	763.2
50°	719.3	721.2	716.4	<i>715.4</i>	714.5
52.5°	669.5	668.5	667.5	<i>666.6</i>	665.6
55°	619.6	620.6	616.8	<i>617.8</i>	616.8
57.5°	569.9	568.9	567.9	<i>567.0</i>	566.1
60°	520.0	519.2	518.2	<i>517.2</i>	519.2
62.5°	468.3	469.3	466.5	<i>469.3</i>	465.5
65°	416.6	416.6	417.6	<i>415.6</i>	414.8
67.5°	366.9	366.9	364.9	<i>364.9</i>	368.7
70°	315.2	316.0	313.2	<i>317.0</i>	313.2
72.5°	264.3	265.3	264.3	<i>263.3</i>	265.3
75°	212.6	213.6	213.6	<i>211.6</i>	213.6
77.5°	165.7	166.7	165.7	<i>164.7</i>	165.7
80°	120.6	121.6	120.6	<i>119.6</i>	121.6
82.5°	80.4	81.4	80.4	<i>80.4</i>	81.4
85°	45.9	46.9	45.9	<i>45.9</i>	46.9
87.5°	18.2	19.2	19.2	<i>19.2</i>	19.2
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)