

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: P735691

Luminaire Tested: **22APR-38-B2750-W2D-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P735691  
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-4000K  
Description: 2X2 3800 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 4000K CCT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

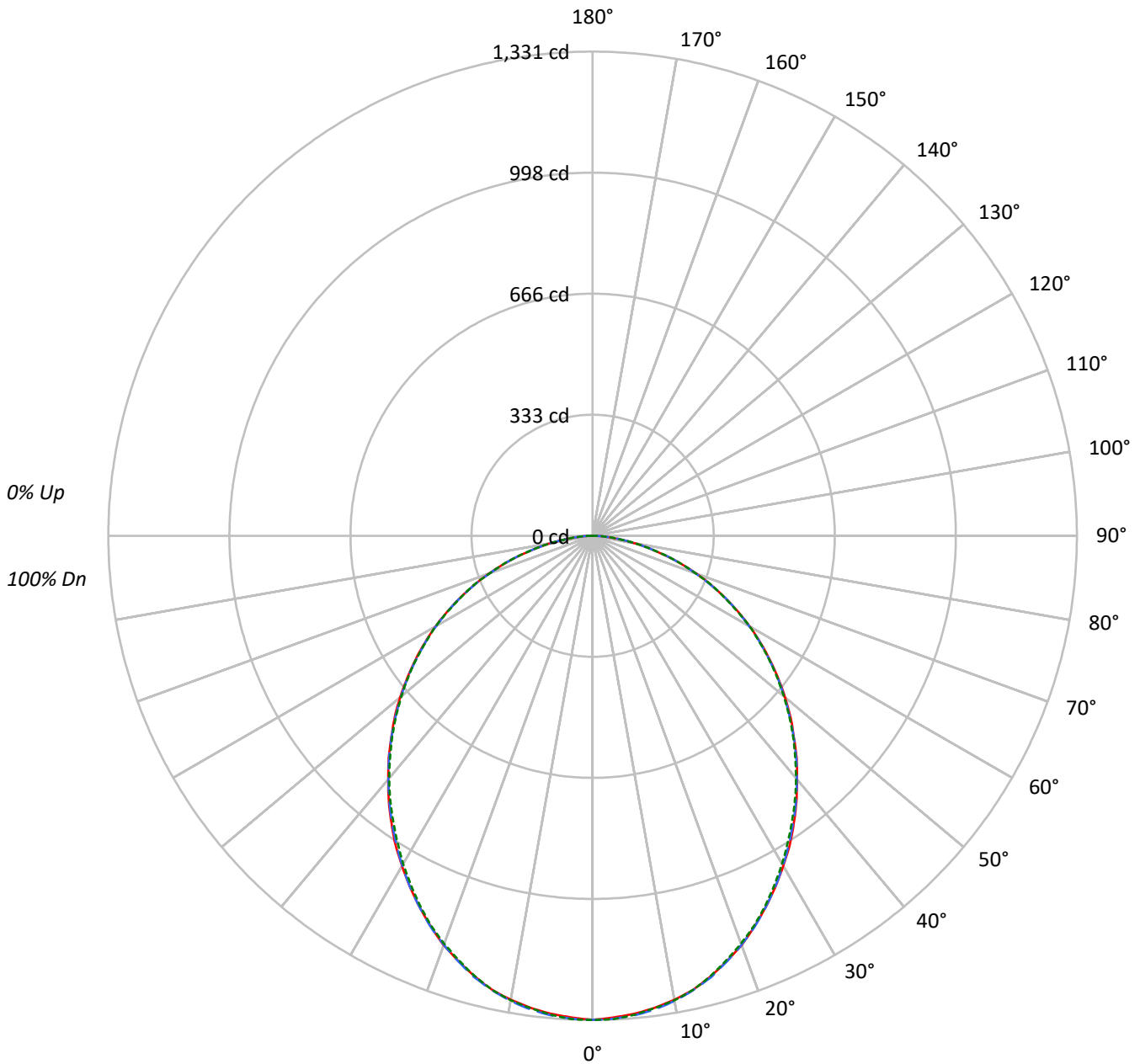
Lumens per Lamp: N/A  
Luminaire Lumens: 3400.0 lumens  
Efficiency: N/A  
Efficacy: 79.1 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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°	3581	3581	3581
5°	3563	3575	3570
10°	3539	3549	3543
15°	3493	3500	3490
20°	3430	3427	3416
25°	3343	3343	3332
30°	3256	3253	3236
35°	3167	3158	3140
40°	3071	3067	3054
45°	2977	2973	2962
50°	2890	2878	2871
55°	2790	2777	2777
60°	2686	2676	2681
65°	2546	2551	2534
70°	2380	2364	2364
75°	2121	2131	2131
80°	1795	1795	1808
85°	1359	1359	1389



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.5	3.7
10°-20°	353.6	10.4
20°-30°	518.5	15.2
30°-40°	601.5	17.7
40°-50°	603.1	17.7
50°-60°	530.4	15.6
60°-70°	395.8	11.6
70°-80°	217.8	6.4
80°-90°	53.9	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°	997.6	29.3
0°-40°	1599.1	47.0
0°-60°	2732.5	80.4
0°-90°	3400.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3400.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1331	1331	1331	1331	1331	
5°	1319	1324	1324	1324	1322	125
15°	1254	1259	1256	1254	1253	353
25°	1126	1130	1126	1125	1122	519
35°	964	965	961	959	956	603
45°	782	785	781	780	778	605
55°	595	596	592	593	592	532
65°	400	400	401	399	398	396
75°	204	205	205	203	205	218
85°	44	45	44	44	45	53
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1330.8	1330.8	1330.8	1330.8	1330.8
2.5°	1325.3	1329.9	1328.9	1331.8	1329.9
5°	1318.9	1323.5	1323.5	1323.5	1321.6
7.5°	1308.7	1313.3	1313.3	1313.3	1309.7
10°	1295.0	1299.7	1298.7	1298.7	1296.8
12.5°	1278.5	1281.2	1279.3	1279.3	1278.5
15°	1253.7	1259.1	1256.4	1254.5	1252.7
17.5°	1226.0	1231.6	1227.0	1226.0	1223.3
20°	1197.6	1201.2	1196.6	1196.6	1193.0
22.5°	1162.6	1166.2	1163.5	1161.8	1159.9
25°	1125.9	1130.5	1125.9	1124.9	1122.2
27.5°	1088.2	1091.8	1087.2	1083.6	1081.8
30°	1047.8	1050.5	1046.8	1044.1	1041.3
32.5°	1008.2	1008.2	1004.5	1001.8	998.2
35°	964.1	965.1	961.4	958.6	955.9
37.5°	920.1	921.8	918.2	915.5	913.6
40°	874.1	875.9	873.2	870.3	869.5
42.5°	829.9	829.9	828.2	825.3	823.6
45°	782.2	784.9	781.3	780.3	778.4
47.5°	738.0	738.0	734.3	732.4	732.4
50°	690.3	692.0	687.4	686.5	685.7
52.5°	642.4	641.5	640.5	639.7	638.8
55°	594.6	595.5	591.9	592.8	591.9
57.5°	546.9	545.9	545.0	544.2	543.2
60°	499.0	498.2	497.3	496.3	498.2
62.5°	449.4	450.3	447.6	450.3	446.7
65°	399.8	399.8	400.7	398.8	398.0
67.5°	352.1	352.1	350.2	350.2	353.8
70°	302.5	303.2	300.5	304.2	300.5
72.5°	253.6	254.6	253.6	252.7	254.6
75°	204.0	205.0	205.0	203.1	205.0
77.5°	159.0	160.0	159.0	158.1	159.0
80°	115.8	116.7	115.8	114.8	116.7
82.5°	77.1	78.1	77.1	77.1	78.1
85°	44.0	45.0	44.0	44.0	45.0
87.5°	17.5	18.4	18.4	18.4	18.4
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)