

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: P735676

Luminaire Tested: **22APR-34-B2750-W2D-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P735676  
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-34-B2750-W2D-4000K  
Description: 2X2 3400 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 4000K CCT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

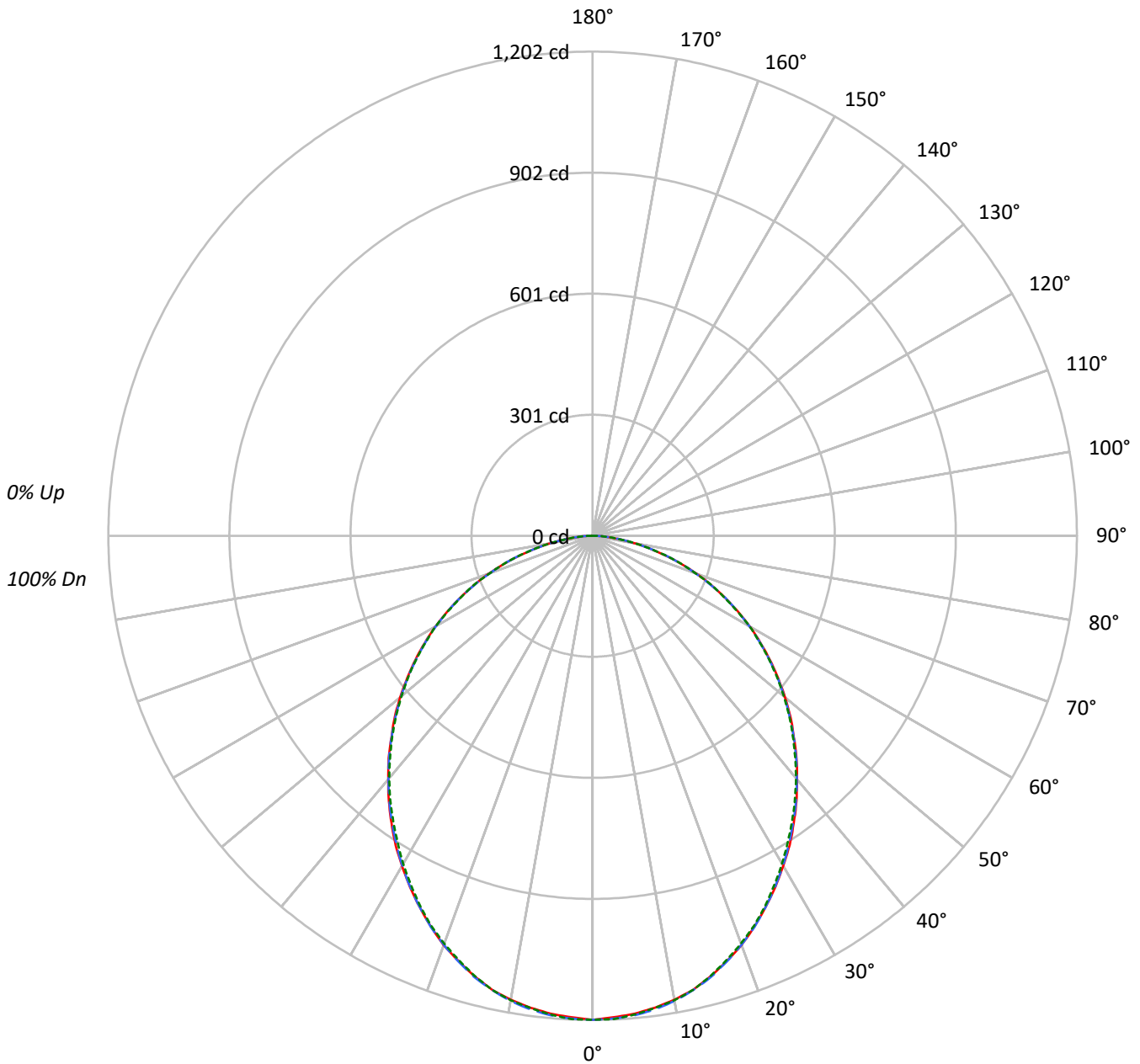
Lumens per Lamp: N/A  
Luminaire Lumens: 3070.0 lumens  
Efficiency: N/A  
Efficacy: 80.8 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 38  
Input Voltage (V): NR  
Input Current (Ain): 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°	3234	3234	3234
5°	3217	3228	3223
10°	3195	3204	3199
15°	3154	3161	3151
20°	3096	3094	3085
25°	3018	3018	3009
30°	2940	2937	2921
35°	2860	2852	2835
40°	2773	2770	2758
45°	2688	2684	2675
50°	2609	2599	2592
55°	2519	2507	2507
60°	2425	2416	2421
65°	2299	2304	2288
70°	2149	2135	2135
75°	1915	1925	1925
80°	1619	1619	1633
85°	1229	1229	1254



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.3	3.7
10°-20°	319.3	10.4
20°-30°	468.2	15.2
30°-40°	543.1	17.7
40°-50°	544.5	17.7
50°-60°	478.9	15.6
60°-70°	357.4	11.6
70°-80°	196.7	6.4
80°-90°	48.7	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°	900.7	29.3
0°-40°	1443.9	47.0
0°-60°	2467.3	80.4
0°-90°	3070.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3070.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1202	1202	1202	1202	1202	
5°	1191	1195	1195	1195	1193	113
15°	1132	1137	1134	1133	1131	319
25°	1017	1021	1017	1016	1013	468
35°	871	871	868	866	863	545
45°	706	709	705	705	703	546
55°	537	538	534	535	534	480
65°	361	361	362	360	359	358
75°	184	185	185	183	185	197
85°	40	41	40	40	41	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1201.7	1201.7	1201.7	1201.7	1201.7
2.5°	1196.6	1200.8	1199.9	1202.5	1200.8
5°	1190.9	1195.1	1195.1	1195.1	1193.3
7.5°	1181.7	1185.9	1185.9	1185.9	1182.6
10°	1169.4	1173.5	1172.7	1172.7	1170.9
12.5°	1154.4	1156.9	1155.1	1155.1	1154.4
15°	1132.0	1136.9	1134.5	1132.7	1131.2
17.5°	1107.0	1112.1	1107.9	1107.0	1104.6
20°	1081.3	1084.6	1080.5	1080.5	1077.2
22.5°	1049.7	1053.0	1050.6	1049.0	1047.3
25°	1016.6	1020.7	1016.6	1015.7	1013.3
27.5°	982.5	985.9	981.7	978.4	976.8
30°	946.1	948.5	945.2	942.8	940.2
32.5°	910.3	910.3	907.0	904.6	901.3
35°	870.6	871.4	868.1	865.5	863.1
37.5°	830.8	832.4	829.1	826.6	824.9
40°	789.3	790.9	788.4	785.8	785.1
42.5°	749.4	749.4	747.8	745.2	743.6
45°	706.3	708.7	705.4	704.6	702.8
47.5°	666.4	666.4	663.1	661.4	661.4
50°	623.3	624.9	620.7	619.9	619.1
52.5°	580.1	579.2	578.4	577.6	576.8
55°	536.9	537.7	534.4	535.3	534.4
57.5°	493.8	492.9	492.1	491.3	490.5
60°	450.6	449.9	449.0	448.1	449.9
62.5°	405.8	406.6	404.2	406.6	403.3
65°	361.0	361.0	361.8	360.1	359.4
67.5°	317.9	317.9	316.2	316.2	319.5
70°	273.1	273.8	271.4	274.7	271.4
72.5°	229.0	229.9	229.0	228.2	229.9
75°	184.2	185.1	185.1	183.4	185.1
77.5°	143.6	144.4	143.6	142.7	143.6
80°	104.5	105.4	104.5	103.7	105.4
82.5°	69.6	70.5	69.6	69.6	70.5
85°	39.8	40.6	39.8	39.8	40.6
87.5°	15.8	16.7	16.7	16.7	16.7
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)