

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: P735674

Luminaire Tested: **22APR-34-B2750-W2D-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P735674  
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-3000K  
Description: 2X2 3400 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 3000K CCT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

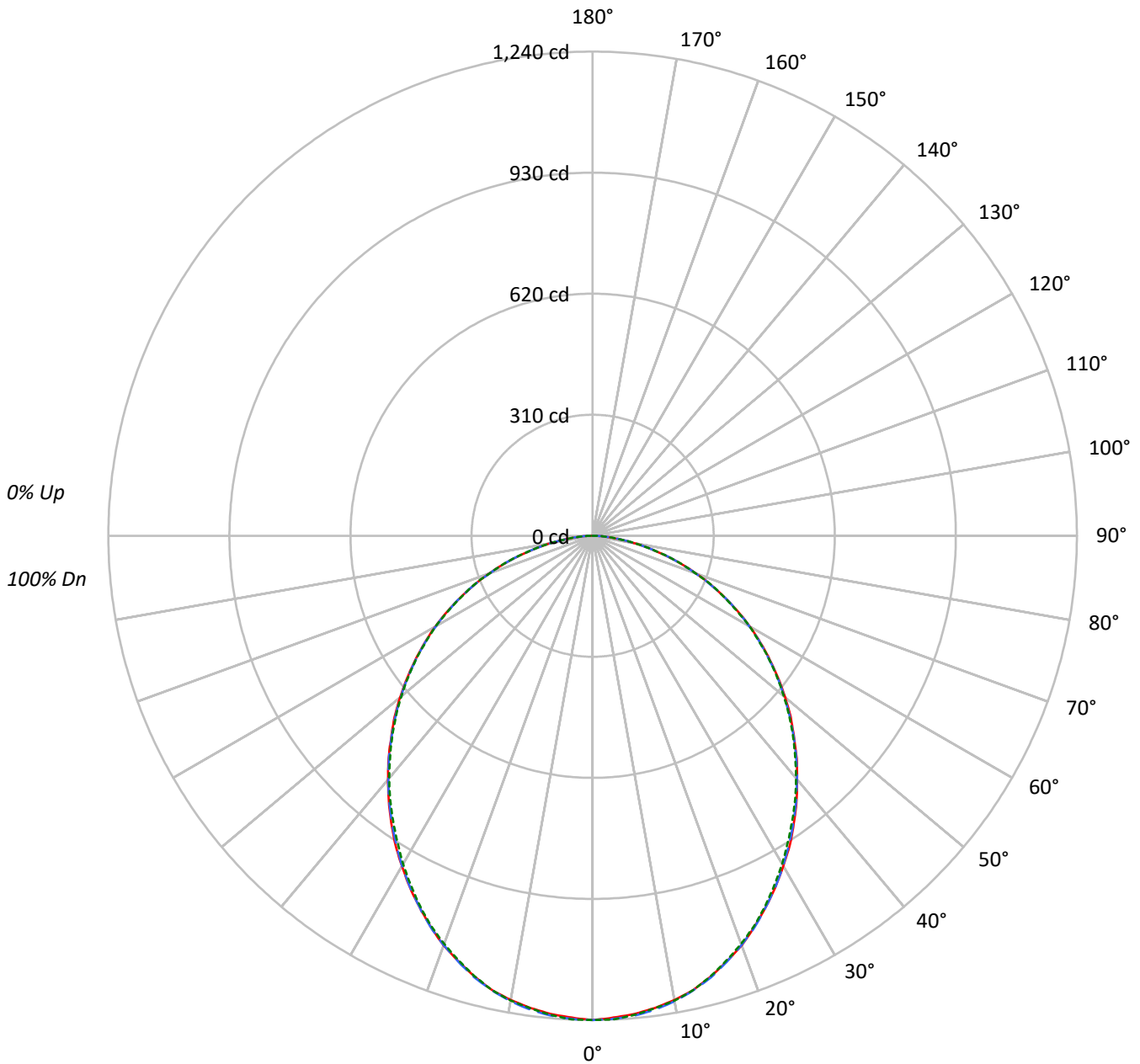
Lumens per Lamp: N/A  
Luminaire Lumens: 3169.0 lumens  
Efficiency: N/A  
Efficacy: 83.4 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 38  
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				20				
RC	80				70				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°	3338	3338	3338
5°	3321	3332	3327
10°	3298	3308	3303
15°	3255	3262	3253
20°	3196	3194	3184
25°	3116	3116	3106
30°	3035	3032	3016
35°	2952	2944	2927
40°	2862	2859	2847
45°	2775	2771	2761
50°	2694	2682	2676
55°	2600	2588	2588
60°	2503	2495	2499
65°	2372	2378	2362
70°	2218	2204	2204
75°	1978	1986	1986
80°	1672	1672	1686
85°	1269	1269	1294



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.0	3.7
10°-20°	329.6	10.4
20°-30°	483.3	15.2
30°-40°	560.6	17.7
40°-50°	562.1	17.7
50°-60°	494.3	15.6
60°-70°	368.9	11.6
70°-80°	203.0	6.4
80°-90°	50.2	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°	929.8	29.3
0°-40°	1490.4	47.0
0°-60°	2546.9	80.4
0°-90°	3169.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3169.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1240	1240	1240	1240	1240	
5°	1229	1234	1234	1234	1232	117
15°	1168	1174	1171	1169	1168	329
25°	1049	1054	1049	1048	1046	483
35°	899	900	896	893	891	562
45°	729	732	728	727	726	563
55°	554	555	552	552	552	496
65°	373	373	374	372	371	369
75°	190	191	191	189	191	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°	1240.4	1240.4	1240.4	1240.4	1240.4
2.5°	1235.2	1239.5	1238.6	1241.3	1239.5
5°	1229.3	1233.6	1233.6	1233.6	1231.8
7.5°	1219.8	1224.1	1224.1	1224.1	1220.7
10°	1207.1	1211.4	1210.5	1210.5	1208.7
12.5°	1191.6	1194.2	1192.4	1192.4	1191.6
15°	1168.5	1173.6	1171.0	1169.3	1167.6
17.5°	1142.7	1147.9	1143.6	1142.7	1140.2
20°	1116.2	1119.6	1115.3	1115.3	1111.9
22.5°	1083.6	1087.0	1084.5	1082.9	1081.1
25°	1049.4	1053.7	1049.4	1048.5	1046.0
27.5°	1014.2	1017.6	1013.3	1009.9	1008.3
30°	976.6	979.1	975.7	973.2	970.5
32.5°	939.7	939.7	936.3	933.8	930.3
35°	898.6	899.5	896.1	893.4	890.9
37.5°	857.6	859.2	855.8	853.3	851.5
40°	814.7	816.4	813.8	811.2	810.4
42.5°	773.5	773.5	771.9	769.2	767.6
45°	729.1	731.6	728.2	727.3	725.5
47.5°	687.9	687.9	684.5	682.7	682.7
50°	643.4	645.0	640.7	639.8	639.1
52.5°	598.8	597.9	597.0	596.3	595.4
55°	554.2	555.1	551.7	552.5	551.7
57.5°	509.7	508.8	507.9	507.2	506.3
60°	465.1	464.4	463.5	462.6	464.4
62.5°	418.9	419.7	417.2	419.7	416.3
65°	372.6	372.6	373.5	371.7	371.0
67.5°	328.1	328.1	326.4	326.4	329.8
70°	281.9	282.6	280.1	283.5	280.1
72.5°	236.4	237.3	236.4	235.5	237.3
75°	190.2	191.0	191.0	189.3	191.0
77.5°	148.2	149.1	148.2	147.3	148.2
80°	107.9	108.8	107.9	107.0	108.8
82.5°	71.9	72.8	71.9	71.9	72.8
85°	41.1	41.9	41.1	41.1	41.9
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)