

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: P735668

Luminaire Tested: **22APR-30-B2750-W2D-CP250-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P735668  
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-30-B2750-W2D-CP250-2700K  
Description: 2X2 3000 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 2700K CCT, AND CP250 LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

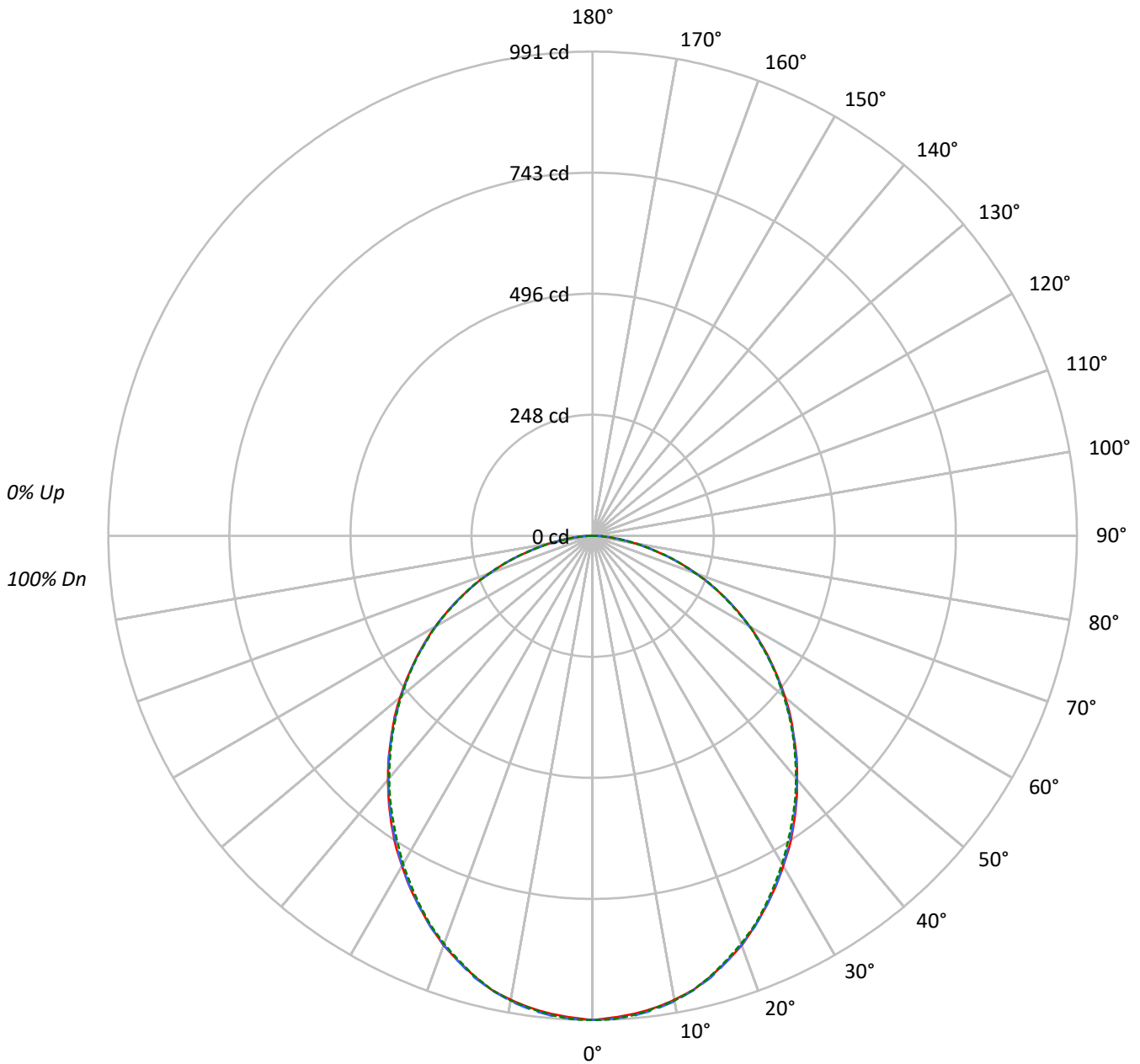
Lumens per Lamp: N/A  
Luminaire Lumens: 2532.0 lumens  
Efficiency: N/A  
Efficacy: 76.7 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 33  
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°	2667	2667	2667
5°	2653	2662	2659
10°	2635	2643	2639
15°	2601	2607	2599
20°	2554	2552	2544
25°	2489	2489	2481
30°	2425	2422	2409
35°	2359	2352	2338
40°	2287	2284	2275
45°	2217	2214	2206
50°	2152	2143	2138
55°	2077	2068	2068
60°	2000	1993	1997
65°	1896	1900	1887
70°	1772	1761	1761
75°	1579	1587	1587
80°	1336	1336	1347
85°	1013	1013	1034



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.4	3.7
10°-20°	263.3	10.4
20°-30°	386.1	15.2
30°-40°	447.9	17.7
40°-50°	449.1	17.7
50°-60°	395.0	15.6
60°-70°	294.8	11.6
70°-80°	162.2	6.4
80°-90°	40.1	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°	742.9	29.3
0°-40°	1190.8	47.0
0°-60°	2034.9	80.4
0°-90°	2532.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2532.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	991	991	991	991	991	
5°	982	986	986	986	984	93
15°	934	938	936	934	933	263
25°	838	842	838	838	836	386
35°	718	719	716	714	712	449
45°	582	584	582	581	580	450
55°	443	444	441	442	441	396
65°	298	298	298	297	296	295
75°	152	153	153	151	153	162
85°	33	34	33	33	34	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	991.1	991.1	991.1	991.1	991.1
2.5°	986.9	990.4	989.7	991.8	990.4
5°	982.2	985.6	985.6	985.6	984.2
7.5°	974.6	978.0	978.0	978.0	975.3
10°	964.4	967.9	967.2	967.2	965.7
12.5°	952.1	954.1	952.7	952.7	952.1
15°	933.6	937.7	935.7	934.2	932.9
17.5°	913.0	917.2	913.7	913.0	911.0
20°	891.8	894.6	891.1	891.1	888.4
22.5°	865.8	868.5	866.5	865.2	863.8
25°	838.4	841.9	838.4	837.7	835.7
27.5°	810.4	813.1	809.7	806.9	805.6
30°	780.3	782.3	779.6	777.6	775.4
32.5°	750.8	750.8	748.1	746.1	743.3
35°	718.0	718.7	716.0	713.8	711.8
37.5°	685.2	686.5	683.8	681.8	680.3
40°	651.0	652.3	650.3	648.1	647.5
42.5°	618.0	618.0	616.7	614.6	613.3
45°	582.5	584.5	581.8	581.1	579.7
47.5°	549.6	549.6	546.9	545.5	545.5
50°	514.1	515.4	511.9	511.2	510.6
52.5°	478.4	477.7	477.0	476.4	475.7
55°	442.8	443.5	440.8	441.5	440.8
57.5°	407.3	406.5	405.8	405.2	404.5
60°	371.6	371.0	370.3	369.6	371.0
62.5°	334.7	335.4	333.4	335.4	332.6
65°	297.7	297.7	298.4	297.0	296.4
67.5°	262.2	262.2	260.8	260.8	263.5
70°	225.2	225.8	223.8	226.5	223.8
72.5°	188.9	189.6	188.9	188.2	189.6
75°	151.9	152.6	152.6	151.2	152.6
77.5°	118.4	119.1	118.4	117.7	118.4
80°	86.2	86.9	86.2	85.5	86.9
82.5°	57.4	58.1	57.4	57.4	58.1
85°	32.8	33.5	32.8	32.8	33.5
87.5°	13.0	13.7	13.7	13.7	13.7
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)