

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: P735663

Luminaire Tested: **22APR-30-B2750-W2D-CP125-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P735663  
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-CP125-2700K  
Description: 2X2 3000 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 2700K CCT, AND CP125 LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

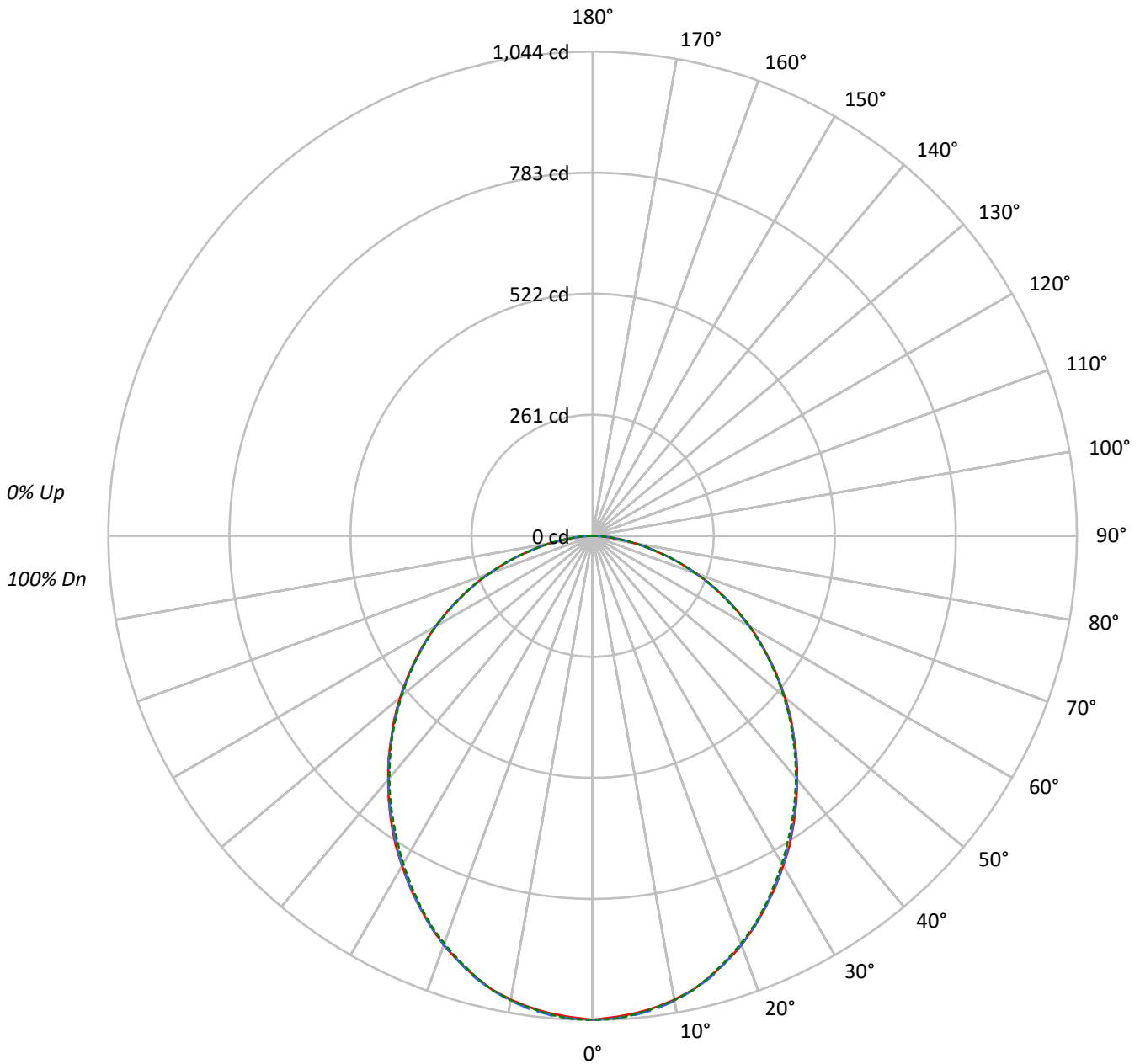
Lumens per Lamp: N/A  
Luminaire Lumens: 2666.0 lumens  
Efficiency: N/A  
Efficacy: 80.8 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	2808	2808	2808
5°	2794	2803	2799
10°	2775	2782	2778
15°	2739	2745	2737
20°	2689	2687	2679
25°	2621	2621	2613
30°	2553	2550	2537
35°	2484	2477	2462
40°	2408	2405	2395
45°	2334	2331	2323
50°	2266	2256	2251
55°	2187	2177	2177
60°	2106	2098	2103
65°	1996	2001	1987
70°	1866	1854	1854
75°	1664	1671	1671
80°	1407	1407	1418
85°	1065	1065	1090



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.4	3.7
10°-20°	277.3	10.4
20°-30°	406.6	15.2
30°-40°	471.6	17.7
40°-50°	472.9	17.7
50°-60°	415.9	15.6
60°-70°	310.4	11.6
70°-80°	170.8	6.4
80°-90°	42.3	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°	782.2	29.3
0°-40°	1253.8	47.0
0°-60°	2142.6	80.4
0°-90°	2666.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2666.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1044	1044	1044	1044	1044	
5°	1034	1038	1038	1038	1036	98
15°	983	987	985	984	982	277
25°	883	886	883	882	880	407
35°	756	757	754	752	750	473
45°	613	616	613	612	610	474
55°	466	467	464	465	464	417
65°	314	314	314	313	312	311
75°	160	161	161	159	161	171
85°	34	35	34	34	35	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1043.5	1043.5	1043.5	1043.5	1043.5
2.5°	1039.2	1042.8	1042.0	1044.3	1042.8
5°	1034.2	1037.8	1037.8	1037.8	1036.3
7.5°	1026.2	1029.8	1029.8	1029.8	1026.9
10°	1015.5	1019.1	1018.3	1018.3	1016.8
12.5°	1002.5	1004.6	1003.1	1003.1	1002.5
15°	983.1	987.3	985.2	983.7	982.3
17.5°	961.4	965.7	962.1	961.4	959.2
20°	939.0	941.9	938.3	938.3	935.4
22.5°	911.6	914.5	912.4	911.0	909.5
25°	882.8	886.4	882.8	882.1	879.9
27.5°	853.2	856.1	852.5	849.6	848.3
30°	821.6	823.7	820.8	818.7	816.5
32.5°	790.5	790.5	787.7	785.5	782.7
35°	756.0	756.7	753.9	751.6	749.5
37.5°	721.5	722.8	720.0	717.8	716.3
40°	685.4	686.8	684.7	682.4	681.8
42.5°	650.8	650.8	649.4	647.1	645.8
45°	613.3	615.5	612.6	611.9	610.4
47.5°	578.7	578.7	575.8	574.3	574.3
50°	541.3	542.6	539.0	538.3	537.7
52.5°	503.7	503.0	502.2	501.6	500.9
55°	466.2	467.0	464.1	464.8	464.1
57.5°	428.8	428.1	427.3	426.7	425.9
60°	391.3	390.7	389.9	389.2	390.7
62.5°	352.4	353.1	351.0	353.1	350.3
65°	313.5	313.5	314.2	312.7	312.1
67.5°	276.1	276.1	274.6	274.6	277.4
70°	237.2	237.8	235.7	238.5	235.7
72.5°	198.9	199.6	198.9	198.1	199.6
75°	160.0	160.7	160.7	159.2	160.7
77.5°	124.7	125.4	124.7	123.9	124.7
80°	90.8	91.5	90.8	90.0	91.5
82.5°	60.5	61.2	60.5	60.5	61.2
85°	34.5	35.3	34.5	34.5	35.3
87.5°	13.7	14.5	14.5	14.5	14.5
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)