

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: P735695

Luminaire Tested: **22APR-38-B2750-W2D-CP125-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P735695  
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-CP125-3500K  
Description: 2X2 3800 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 3500K CCT, AND CP125 LENS

Light Source: -  
Ballast/Driver: -

**Summary**

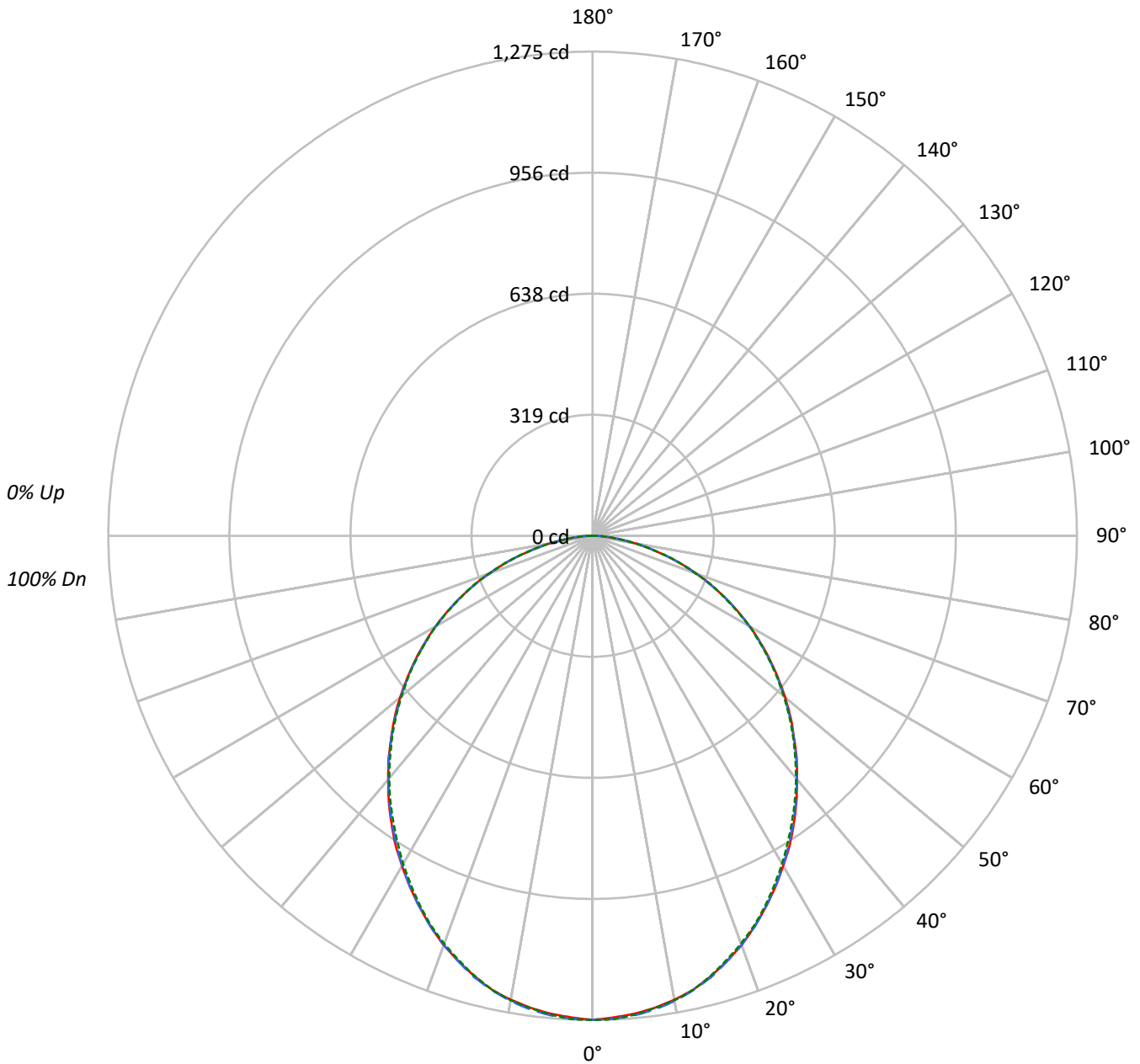
Lumens per Lamp: N/A  
Luminaire Lumens: 3257.0 lumens  
Efficiency: N/A  
Efficacy: 75.7 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	3431	3431	3431
5°	3413	3425	3420
10°	3390	3399	3395
15°	3346	3353	3343
20°	3285	3283	3273
25°	3202	3202	3192
30°	3119	3116	3100
35°	3034	3026	3008
40°	2942	2938	2926
45°	2852	2848	2838
50°	2768	2757	2750
55°	2672	2660	2660
60°	2573	2563	2569
65°	2439	2444	2428
70°	2279	2265	2265
75°	2032	2042	2042
80°	1719	1719	1733
85°	1303	1303	1331



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.2	3.7
10°-20°	338.7	10.4
20°-30°	496.7	15.2
30°-40°	576.2	17.7
40°-50°	577.7	17.7
50°-60°	508.1	15.6
60°-70°	379.2	11.6
70°-80°	208.6	6.4
80°-90°	51.6	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°	955.6	29.3
0°-40°	1531.8	47.0
0°-60°	2617.6	80.4
0°-90°	3257.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3257.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1275	1275	1275	1275	1275	
5°	1263	1268	1268	1268	1266	120
15°	1201	1206	1204	1202	1200	338
25°	1078	1083	1078	1078	1075	497
35°	924	924	921	918	916	578
45°	749	752	748	748	746	579
55°	570	570	567	568	567	509
65°	383	383	384	382	381	380
75°	195	196	196	194	196	209
85°	42	43	42	42	43	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1274.9	1274.9	1274.9	1274.9	1274.9
2.5°	1269.5	1273.9	1273.0	1275.8	1273.9
5°	1263.4	1267.8	1267.8	1267.8	1266.0
7.5°	1253.7	1258.1	1258.1	1258.1	1254.6
10°	1240.6	1245.0	1244.1	1244.1	1242.3
12.5°	1224.7	1227.3	1225.5	1225.5	1224.7
15°	1201.0	1206.2	1203.6	1201.7	1200.1
17.5°	1174.5	1179.8	1175.4	1174.5	1171.9
20°	1147.2	1150.7	1146.3	1146.3	1142.8
22.5°	1113.7	1117.2	1114.6	1112.9	1111.1
25°	1078.5	1082.9	1078.5	1077.6	1075.0
27.5°	1042.4	1045.9	1041.5	1038.0	1036.3
30°	1003.7	1006.3	1002.8	1000.2	997.5
32.5°	965.8	965.8	962.3	959.7	956.2
35°	923.6	924.5	921.0	918.2	915.7
37.5°	881.4	883.1	879.6	877.0	875.1
40°	837.4	839.0	836.4	833.7	832.9
42.5°	795.0	795.0	793.3	790.6	788.9
45°	749.3	751.9	748.4	747.5	745.7
47.5°	707.0	707.0	703.5	701.6	701.6
50°	661.3	662.9	658.5	657.6	656.8
52.5°	615.4	614.5	613.6	612.8	611.9
55°	569.6	570.5	567.0	567.9	567.0
57.5°	523.9	523.0	522.0	521.3	520.4
60°	478.0	477.3	476.3	475.4	477.3
62.5°	430.5	431.4	428.8	431.4	427.9
65°	383.0	383.0	383.9	382.0	381.3
67.5°	337.3	337.3	335.4	335.4	338.9
70°	289.7	290.5	287.9	291.4	287.9
72.5°	243.0	243.9	243.0	242.1	243.9
75°	195.4	196.4	196.4	194.5	196.4
77.5°	152.3	153.2	152.3	151.4	152.3
80°	110.9	111.8	110.9	110.0	111.8
82.5°	73.9	74.8	73.9	73.9	74.8
85°	42.2	43.1	42.2	42.2	43.1
87.5°	16.8	17.7	17.7	17.7	17.7
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)