

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: P735646

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P735646  
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-22-B2750-W2D-4000K  
Description: 2X2 2200 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 4000K CCT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

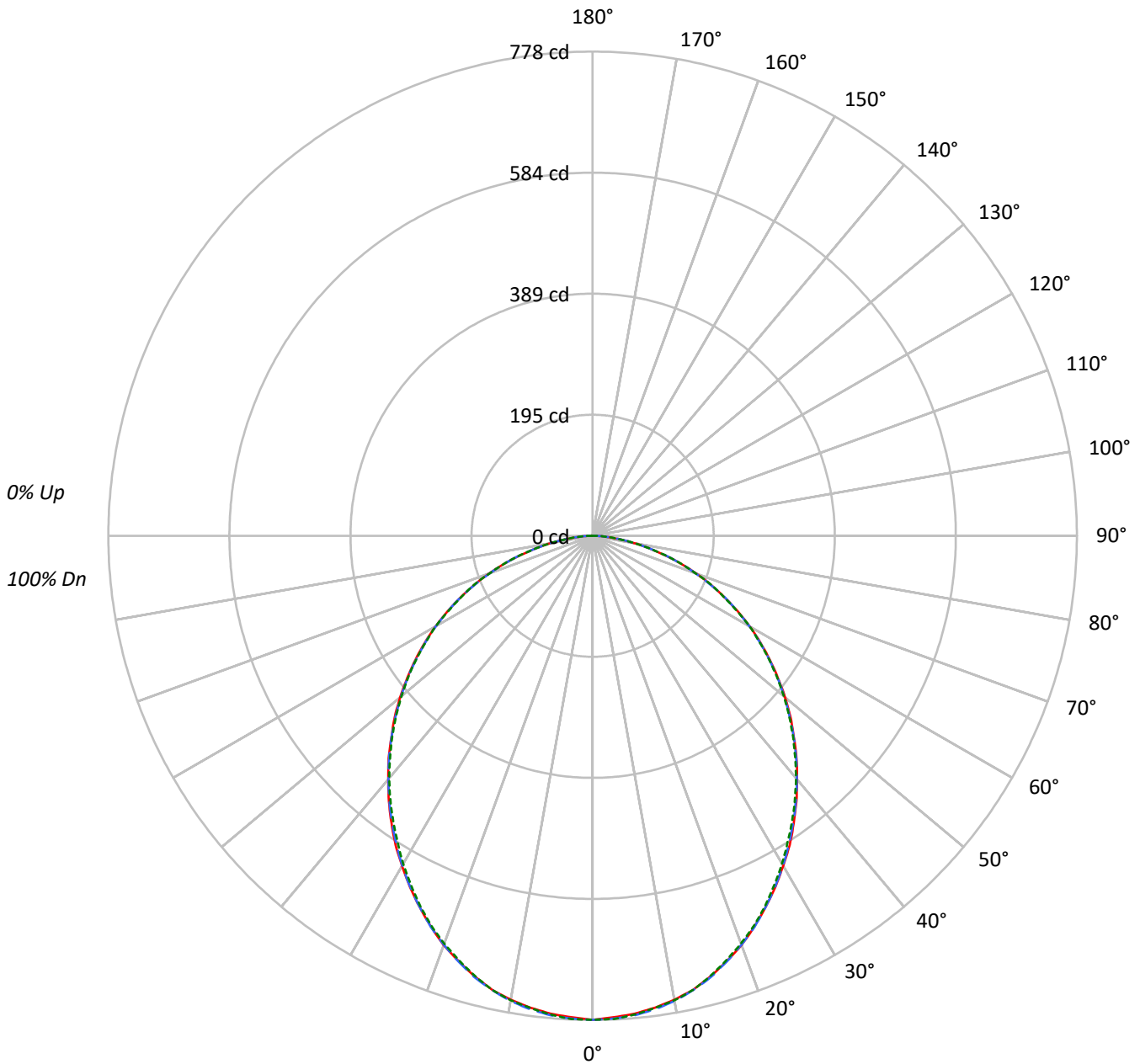
Lumens per Lamp: N/A  
Luminaire Lumens: 1987.0 lumens  
Efficiency: N/A  
Efficacy: 86.4 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 23  
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°	2093	2093	2093
5°	2082	2089	2086
10°	2068	2074	2071
15°	2041	2046	2040
20°	2004	2003	1997
25°	1954	1954	1947
30°	1903	1901	1891
35°	1851	1846	1835
40°	1794	1793	1785
45°	1740	1738	1731
50°	1689	1682	1677
55°	1630	1623	1623
60°	1569	1564	1567
65°	1487	1491	1481
70°	1391	1382	1382
75°	1239	1246	1246
80°	1049	1049	1057
85°	794	794	812



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.3	3.7
10°-20°	206.7	10.4
20°-30°	303.0	15.2
30°-40°	351.5	17.7
40°-50°	352.4	17.7
50°-60°	310.0	15.6
60°-70°	231.3	11.6
70°-80°	127.3	6.4
80°-90°	31.5	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°	583.0	29.3
0°-40°	934.5	47.0
0°-60°	1596.9	80.4
0°-90°	1987.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1987.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	778	778	778	778	778	
5°	771	774	774	774	772	73
15°	733	736	734	733	732	206
25°	658	661	658	657	656	303
35°	563	564	562	560	559	352
45°	457	459	457	456	455	353
55°	348	348	346	346	346	311
65°	234	234	234	233	233	232
75°	119	120	120	119	120	127
85°	26	26	26	26	26	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	777.8	777.8	777.8	777.8	777.8
2.5°	774.5	777.2	776.6	778.3	777.2
5°	770.8	773.5	773.5	773.5	772.4
7.5°	764.8	767.5	767.5	767.5	765.4
10°	756.8	759.5	759.0	759.0	757.9
12.5°	747.2	748.8	747.6	747.6	747.2
15°	732.7	735.8	734.3	733.1	732.1
17.5°	716.5	719.8	717.1	716.5	714.9
20°	699.9	702.0	699.3	699.3	697.2
22.5°	679.4	681.6	680.0	679.0	677.8
25°	658.0	660.7	658.0	657.4	655.8
27.5°	635.9	638.1	635.4	633.2	632.2
30°	612.3	613.9	611.8	610.2	608.5
32.5°	589.2	589.2	587.1	585.5	583.3
35°	563.4	564.0	561.9	560.2	558.6
37.5°	537.7	538.7	536.6	535.0	533.9
40°	510.8	511.9	510.3	508.6	508.2
42.5°	485.0	485.0	484.0	482.3	481.3
45°	457.1	458.7	456.6	456.0	454.9
47.5°	431.3	431.3	429.2	428.0	428.0
50°	403.4	404.4	401.7	401.2	400.7
52.5°	375.4	374.9	374.3	373.9	373.3
55°	347.5	348.0	345.9	346.5	345.9
57.5°	319.6	319.0	318.5	318.0	317.5
60°	291.6	291.2	290.6	290.0	291.2
62.5°	262.6	263.2	261.6	263.2	261.0
65°	233.6	233.6	234.2	233.1	232.6
67.5°	205.8	205.8	204.6	204.6	206.8
70°	176.8	177.2	175.6	177.8	175.6
72.5°	148.2	148.8	148.2	147.7	148.8
75°	119.2	119.8	119.8	118.7	119.8
77.5°	92.9	93.5	92.9	92.4	92.9
80°	67.7	68.2	67.7	67.1	68.2
82.5°	45.1	45.6	45.1	45.1	45.6
85°	25.7	26.3	25.7	25.7	26.3
87.5°	10.2	10.8	10.8	10.8	10.8
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)