

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: P732670

Luminaire Tested: **14FCZ2-29-B2750-W2D-CA125-5000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732670  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275502)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 14FCZ2-29-B2750-W2D-CA125-5000K  
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT  
AND RIBBED LENS, WITH, CA125 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

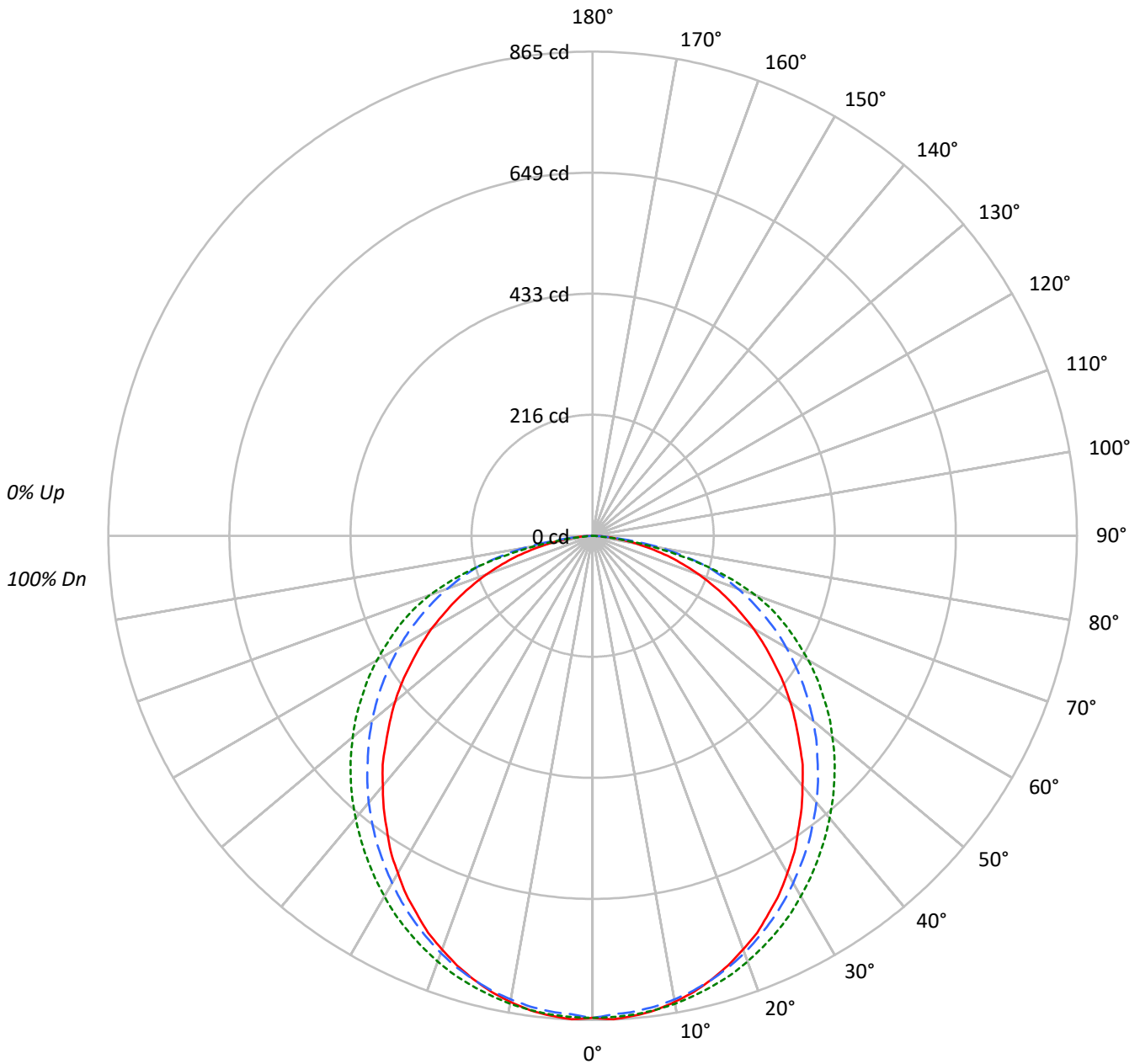
Lumens per Lamp: N/A  
Luminaire Lumens: 2500.0 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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					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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83								
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69								
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58								
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49								
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42								
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37								
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32								
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29								
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26								
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2431	2431	2431
5°	2439	2418	2433
10°	2424	2411	2433
15°	2398	2399	2432
20°	2363	2383	2431
25°	2318	2359	2429
30°	2268	2335	2424
35°	2207	2315	2422
40°	2148	2293	2426
45°	2083	2267	2439
50°	2022	2257	2455
55°	1945	2250	2477
60°	1876	2254	2512
65°	1779	2260	2550
70°	1670	2277	2549
75°	1513	2298	2304
80°	1242	1983	1639
85°	920	939	379



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.5	3.3
10°-20°	232.8	9.3
20°-30°	350.7	14.0
30°-40°	420.9	16.8
40°-50°	438.6	17.5
50°-60°	406.1	16.2
60°-70°	328.1	13.1
70°-80°	200.1	8.0
80°-90°	41.3	1.7
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°	665.0	26.6
0°-40°	1085.9	43.4
0°-60°	1930.6	77.2
0°-90°	2500.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2500.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	861	861	861	861	861	
5°	861	858	853	860	858	82
15°	821	821	821	832	832	231
25°	744	749	758	777	780	343
35°	641	651	672	696	703	401
45°	522	538	568	600	611	403
55°	395	416	457	493	503	354
65°	266	293	338	372	382	263
75°	139	169	211	214	211	146
85°	28	42	29	16	12	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	861.3	861.3	861.3	861.3	861.3
2.5°	864.6	861.9	855.7	861.9	860.7
5°	860.7	858.5	853.4	859.6	858.5
7.5°	855.1	852.8	848.4	855.7	854.5
10°	845.6	844.5	841.2	849.6	849.0
12.5°	834.6	834.0	832.3	841.8	841.2
15°	820.6	821.1	821.1	832.3	832.3
17.5°	804.9	806.0	808.3	820.6	822.3
20°	786.5	788.8	793.3	807.3	809.4
22.5°	767.7	769.3	775.9	792.7	795.0
25°	744.2	748.6	757.5	776.6	779.9
27.5°	721.9	725.8	738.0	757.5	763.2
30°	695.7	701.8	716.4	737.6	743.7
32.5°	670.7	677.3	694.0	718.5	724.1
35°	640.6	650.6	671.7	696.3	702.9
37.5°	613.3	622.6	646.7	673.4	681.3
40°	583.0	594.8	622.2	650.6	658.4
42.5°	555.3	566.3	595.9	624.9	635.5
45°	521.8	537.5	568.0	599.8	611.0
47.5°	491.1	506.8	541.9	575.8	585.9
50°	460.4	477.1	514.0	549.1	559.1
52.5°	428.6	446.6	486.0	521.2	533.0
55°	395.2	415.9	457.2	492.8	503.4
57.5°	363.4	384.6	428.6	464.9	475.4
60°	332.3	354.1	399.2	433.7	444.9
62.5°	297.7	323.4	370.2	404.1	412.5
65°	266.4	292.7	338.4	372.3	381.8
67.5°	233.6	262.0	307.7	338.9	347.9
70°	202.4	231.9	275.9	304.9	308.8
72.5°	169.0	199.1	243.6	262.0	262.0
75°	138.7	169.4	210.7	214.1	211.3
77.5°	105.9	140.0	166.7	159.9	153.3
80°	76.4	109.9	122.0	109.9	100.8
82.5°	51.3	79.7	73.5	58.5	51.9
85°	28.4	42.4	29.0	16.1	11.7
87.5°	10.6	9.5	2.8	2.8	2.8
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)