

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: P732615

Luminaire Tested: **14FCZ2-25-S-B2750-W2D-CA08-5000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732615  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275670)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 14FCZ2-25-S-B2750-W2D-CA08-5000K  
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT  
AND SMOOTH LENS, WITH, CA08 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

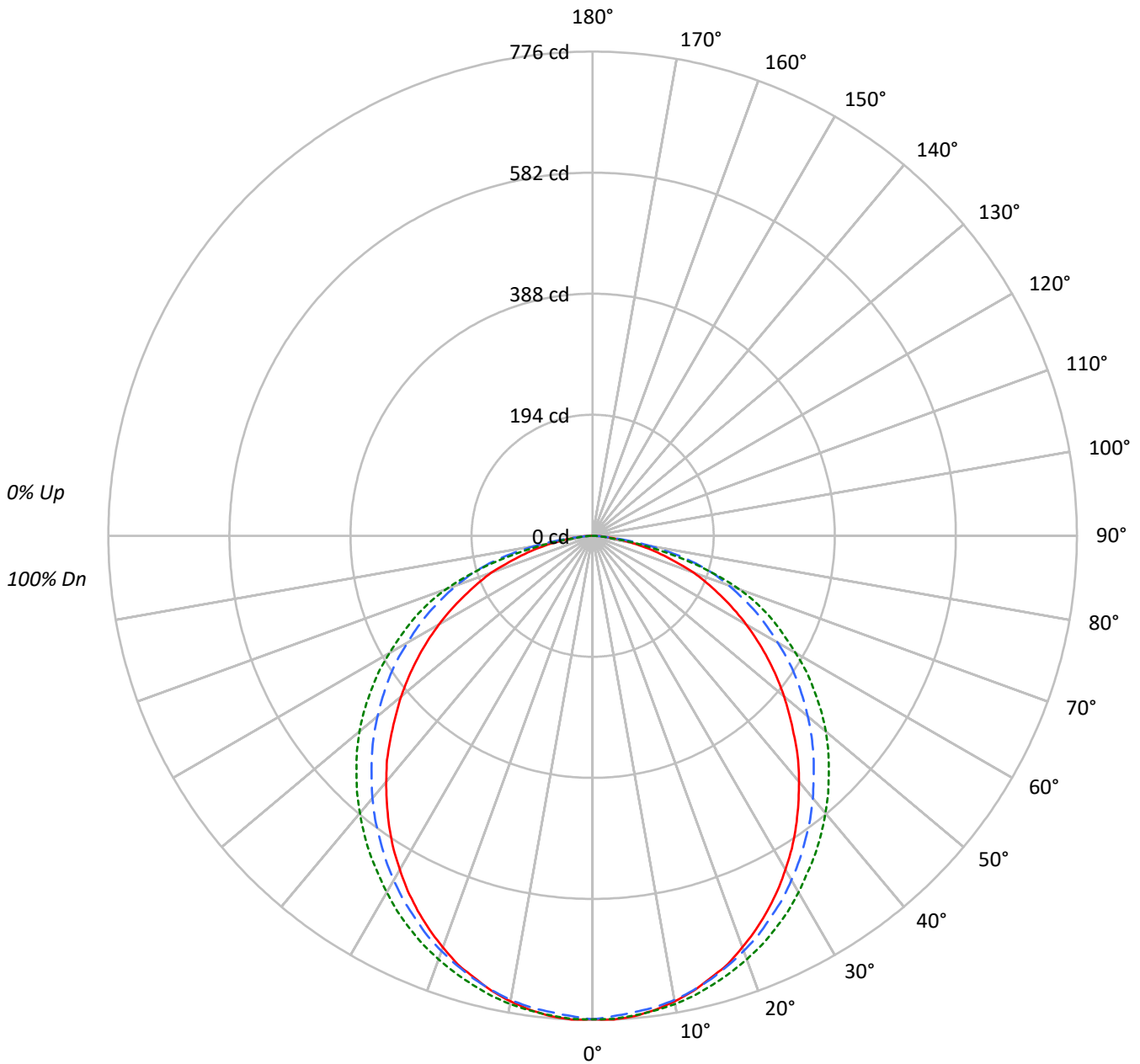
Lumens per Lamp: N/A  
Luminaire Lumens: 2171.0 lumens  
Efficiency: N/A  
Efficacy: 114.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 19  
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	94	97	94	91	94	91	89	90	88	86	84																			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70																			
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58																			
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50																			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43																			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38																			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33																			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30																			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27																			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24																			

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

	0°	45°	90°
0°	2188	2188	2188
5°	2190	2172	2187
10°	2172	2166	2184
15°	2142	2148	2176
20°	2108	2128	2170
25°	2065	2102	2162
30°	2014	2077	2151
35°	1958	2048	2144
40°	1896	2023	2138
45°	1826	1998	2136
50°	1758	1976	2141
55°	1685	1960	2135
60°	1604	1932	2120
65°	1510	1927	2121
70°	1422	1911	2061
75°	1232	1867	1760
80°	996	1505	1172
85°	661	521	350



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.2	3.4
10°-20°	208.3	9.6
20°-30°	312.4	14.4
30°-40°	372.6	17.2
40°-50°	385.2	17.7
50°-60°	351.7	16.2
60°-70°	276.8	12.7
70°-80°	161.1	7.4
80°-90°	29.7	1.4
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°	593.8	27.4
0°-40°	966.4	44.5
0°-60°	1703.4	78.5
0°-90°	2171.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2171.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	775	775	775	775	775	
5°	773	771	766	773	772	73
15°	733	734	735	745	745	207
25°	663	666	675	691	694	305
35°	568	576	594	617	622	355
45°	457	473	500	528	535	353
55°	342	361	398	427	434	306
65°	226	250	288	311	318	224
75°	113	140	171	168	161	120
85°	20	29	16	13	11	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	775.0	775.0	775.0	775.0	775.0
2.5°	776.1	774.0	770.7	776.1	775.0
5°	772.9	770.7	766.4	772.9	771.7
7.5°	766.4	764.2	762.1	768.6	767.5
10°	757.7	756.7	755.6	763.1	762.1
12.5°	747.1	747.1	746.0	754.6	754.6
15°	733.1	734.1	735.2	744.8	744.8
17.5°	720.1	719.1	722.3	733.1	734.1
20°	701.8	703.9	708.3	721.2	722.3
22.5°	683.5	685.7	693.2	706.2	709.3
25°	663.0	666.3	674.9	691.0	694.3
27.5°	641.5	645.9	657.6	674.9	678.1
30°	617.8	624.3	637.2	656.6	659.9
32.5°	594.2	600.7	616.7	636.1	640.5
35°	568.3	575.9	594.2	616.7	622.2
37.5°	541.4	551.1	572.7	595.2	601.7
40°	514.5	525.3	548.9	572.7	580.2
42.5°	487.6	498.4	524.2	551.1	558.7
45°	457.4	472.6	500.5	528.5	535.0
47.5°	428.4	444.6	475.7	503.7	512.4
50°	400.4	416.5	449.9	479.0	487.6
52.5°	371.4	388.6	424.0	454.2	461.8
55°	342.3	360.6	398.3	427.3	433.8
57.5°	313.3	332.6	371.4	399.4	406.9
60°	284.2	304.7	342.3	370.2	375.6
62.5°	255.1	276.6	315.4	340.2	345.6
65°	226.1	249.7	288.5	311.1	317.6
67.5°	198.1	221.7	259.4	280.9	286.3
70°	172.3	193.8	231.5	247.6	249.7
72.5°	139.9	166.8	203.4	212.1	206.7
75°	113.0	139.9	171.2	167.9	161.4
77.5°	86.1	113.0	133.5	122.7	114.1
80°	61.3	88.2	92.6	76.4	72.1
82.5°	39.8	61.3	51.7	39.8	32.3
85°	20.4	29.0	16.1	12.9	10.8
87.5°	6.5	4.4	2.1	2.1	1.1
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)