

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: P732627

Luminaire Tested: **14FCZ2-25-S-B2750-W2D-CP250-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732627  
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-CP250-3000K  
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT  
AND SMOOTH LENS, WITH, CP250 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

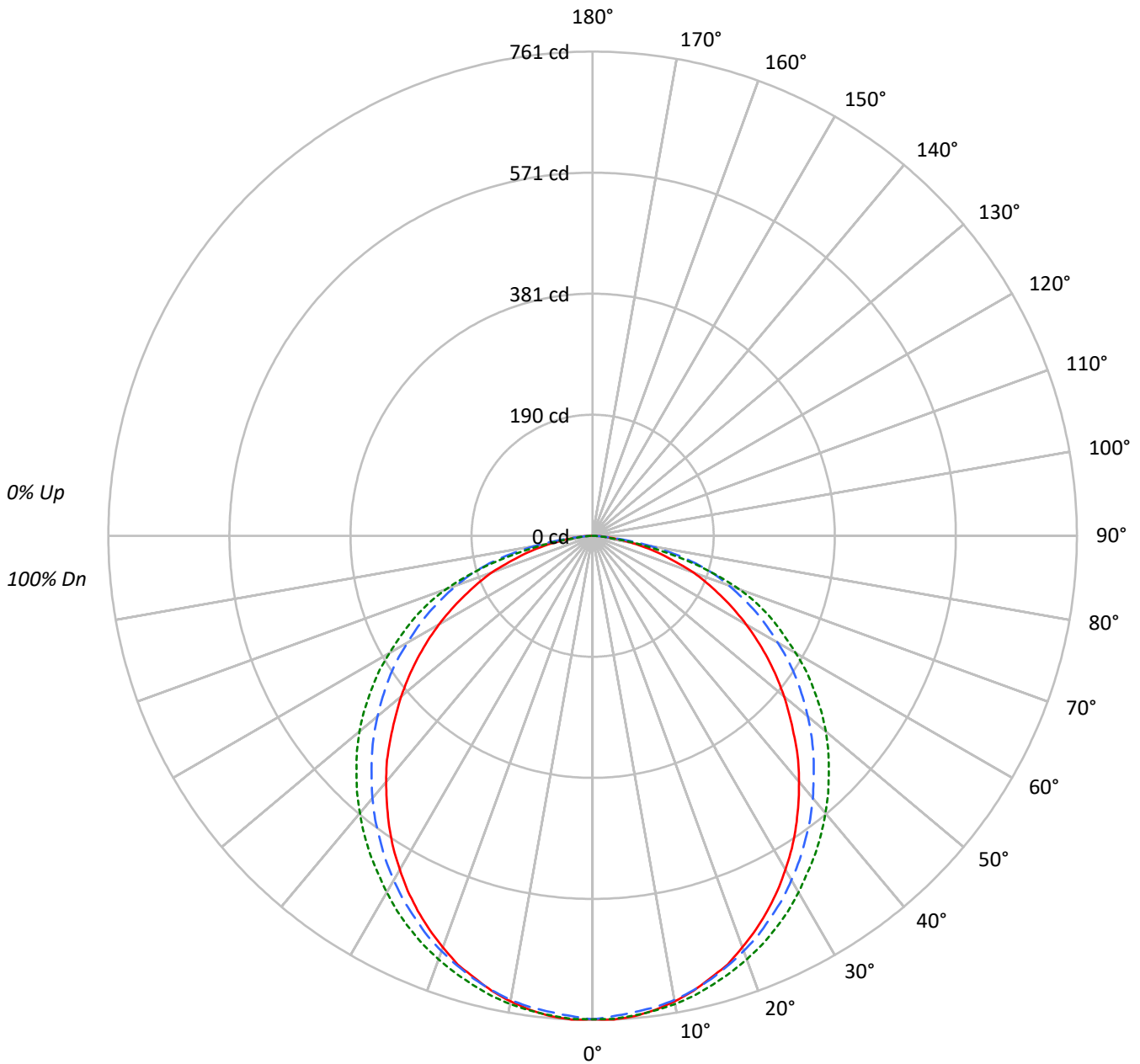
Lumens per Lamp: N/A  
Luminaire Lumens: 2129.0 lumens  
Efficiency: N/A  
Efficacy: 112.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	2145	2145	2145
5°	2148	2130	2144
10°	2130	2124	2142
15°	2101	2107	2134
20°	2067	2086	2128
25°	2025	2061	2121
30°	1975	2037	2109
35°	1920	2008	2102
40°	1859	1983	2097
45°	1791	1960	2094
50°	1724	1937	2100
55°	1652	1922	2093
60°	1573	1895	2080
65°	1481	1889	2081
70°	1394	1873	2020
75°	1208	1831	1726
80°	977	1476	1151
85°	648	512	343



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.8	3.4
10°-20°	204.2	9.6
20°-30°	306.3	14.4
30°-40°	365.4	17.2
40°-50°	377.8	17.7
50°-60°	344.9	16.2
60°-70°	271.4	12.7
70°-80°	158.0	7.4
80°-90°	29.1	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°	582.3	27.4
0°-40°	947.8	44.5
0°-60°	1670.5	78.5
0°-90°	2129.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2129.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	760	760	760	760	760	
5°	758	756	752	758	757	72
15°	719	720	721	730	730	203
25°	650	653	662	678	681	299
35°	557	565	583	605	610	348
45°	449	463	491	518	525	346
55°	336	354	391	419	425	300
65°	222	245	283	305	312	220
75°	111	137	168	165	158	118
85°	20	28	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°	760.0	760.0	760.0	760.0	760.0
2.5°	761.1	759.0	755.8	761.1	760.0
5°	758.0	755.8	751.6	758.0	756.8
7.5°	751.6	749.4	747.3	753.7	752.7
10°	743.1	742.0	741.0	748.4	747.3
12.5°	732.6	732.6	731.6	740.0	740.0
15°	718.9	719.9	721.0	730.4	730.4
17.5°	706.2	705.2	708.3	718.9	719.9
20°	688.2	690.3	694.6	707.3	708.3
22.5°	670.3	672.5	679.8	692.5	695.6
25°	650.2	653.4	661.9	677.6	680.9
27.5°	629.1	633.4	644.9	661.9	665.0
30°	605.8	612.2	624.9	643.9	647.1
32.5°	582.7	589.0	604.8	623.8	628.1
35°	557.3	564.7	582.7	604.8	610.1
37.5°	531.0	540.4	561.6	583.7	590.1
40°	504.6	515.2	538.3	561.6	569.0
42.5°	478.2	488.8	514.0	540.4	547.9
45°	448.6	463.4	490.9	518.3	524.6
47.5°	420.1	436.0	466.5	494.0	502.5
50°	392.7	408.5	441.2	469.8	478.2
52.5°	364.2	381.0	415.8	445.5	452.8
55°	335.6	353.6	390.6	419.1	425.4
57.5°	307.2	326.2	364.2	391.7	399.0
60°	278.7	298.8	335.6	363.1	368.4
62.5°	250.2	271.2	309.3	333.6	338.9
65°	221.7	244.8	282.9	305.1	311.5
67.5°	194.3	217.4	254.4	275.5	280.8
70°	168.9	190.0	227.0	242.8	244.8
72.5°	137.2	163.6	199.4	208.0	202.7
75°	110.8	137.2	167.9	164.7	158.3
77.5°	84.5	110.8	130.9	120.3	111.9
80°	60.1	86.5	90.8	74.9	70.8
82.5°	39.1	60.1	50.7	39.1	31.7
85°	20.0	28.5	15.8	12.7	10.6
87.5°	6.3	4.3	2.1	2.1	1.0
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)