

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: P732543

Luminaire Tested: **14FCZ2-25-B2750-W2D-CA125-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732543  
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: 14FCZ2-25-B2750-W2D-CA125-3500K  
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT  
AND RIBBED LENS, WITH, CA125 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

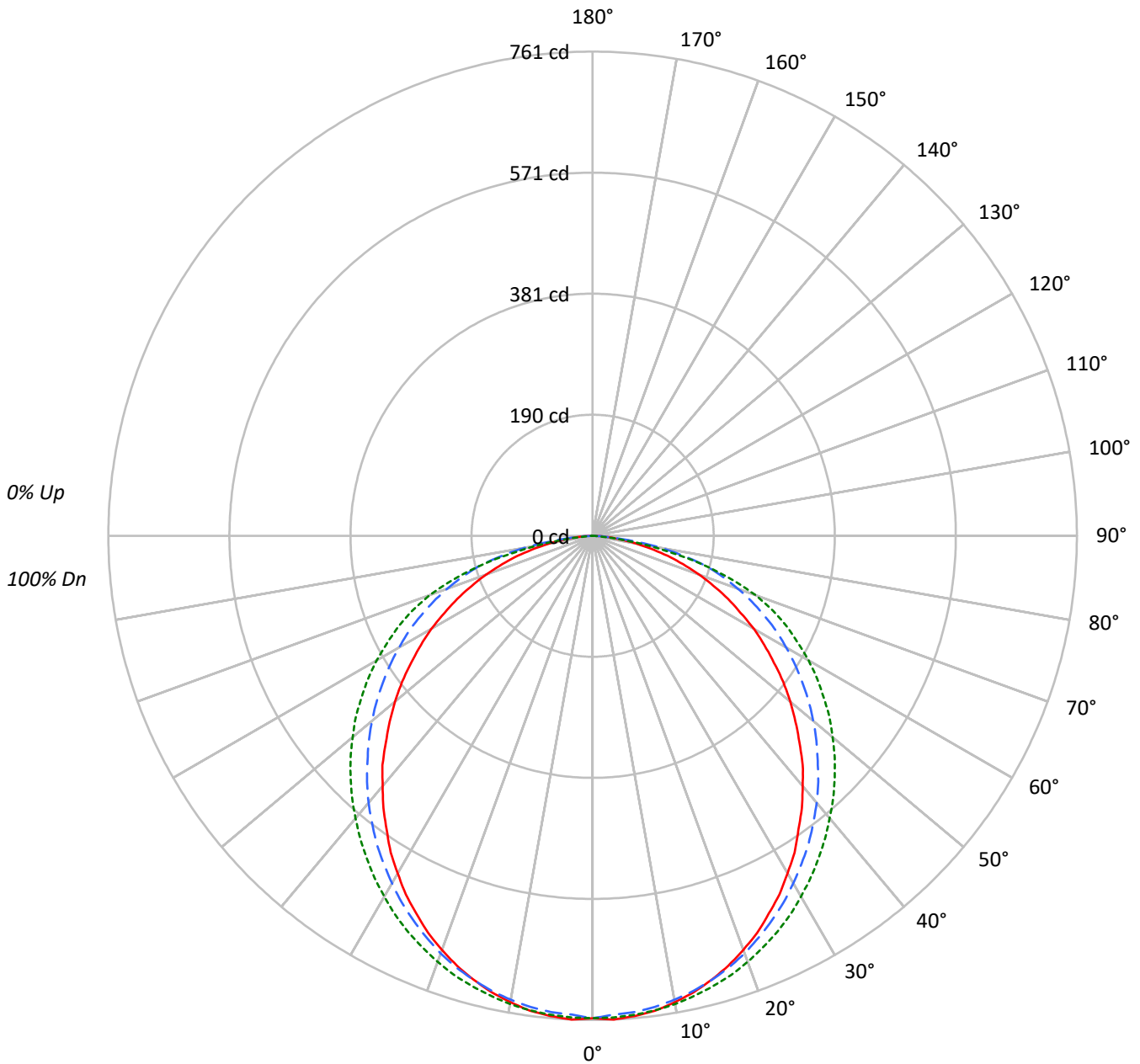
Lumens per Lamp: N/A  
Luminaire Lumens: 2201.0 lumens  
Efficiency: N/A  
Efficacy: 115.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P732543

CATALOG NUMBER: 14FCZ2-25-B2750-W2D-CA125-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P732543

CATALOG NUMBER: 14FCZ2-25-B2750-W2D-CA125-3500K

**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	90	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°	2140	2140	2140
5°	2147	2129	2142
10°	2134	2123	2143
15°	2111	2112	2141
20°	2080	2098	2141
25°	2041	2077	2139
30°	1996	2056	2134
35°	1943	2038	2132
40°	1891	2019	2136
45°	1834	1996	2147
50°	1780	1987	2161
55°	1712	1981	2181
60°	1651	1984	2211
65°	1567	1990	2245
70°	1471	2005	2244
75°	1332	2023	2030
80°	1094	1746	1443
85°	810	826	334



TEST NUMBER: P732543

CATALOG NUMBER: 14FCZ2-25-B2750-W2D-CA125-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.8	3.3
10°-20°	205.0	9.3
20°-30°	308.8	14.0
30°-40°	370.5	16.8
40°-50°	386.2	17.5
50°-60°	357.5	16.2
60°-70°	288.9	13.1
70°-80°	176.1	8.0
80°-90°	36.3	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°	585.5	26.6
0°-40°	956.0	43.4
0°-60°	1699.7	77.2
0°-90°	2201.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2201.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	758	758	758	758	758	
5°	758	756	751	757	756	72
15°	722	723	723	733	733	204
25°	655	659	667	684	687	302
35°	564	573	591	613	619	353
45°	459	473	500	528	538	355
55°	348	366	402	434	443	312
65°	235	258	298	328	336	232
75°	122	149	186	188	186	128
85°	25	37	26	14	10	31
90°	0	0	0	0	0	



TEST NUMBER: P732543

CATALOG NUMBER: 14FCZ2-25-B2750-W2D-CA125-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	758.3	758.3	758.3	758.3	758.3
2.5°	761.2	758.8	753.4	758.8	757.7
5°	757.7	755.8	751.4	756.8	755.8
7.5°	752.9	750.8	746.9	753.4	752.3
10°	744.5	743.5	740.6	748.0	747.5
12.5°	734.8	734.2	732.7	741.1	740.6
15°	722.5	722.9	722.9	732.7	732.7
17.5°	708.7	709.6	711.6	722.5	723.9
20°	692.5	694.5	698.4	710.7	712.6
22.5°	675.8	677.3	683.1	697.9	699.9
25°	655.2	659.1	666.9	683.7	686.7
27.5°	635.6	639.0	649.8	666.9	671.9
30°	612.5	617.9	630.7	649.4	654.8
32.5°	590.5	596.3	611.0	632.6	637.5
35°	564.0	572.8	591.4	613.0	618.8
37.5°	539.9	548.2	569.4	592.9	599.8
40°	513.3	523.7	547.8	572.8	579.6
42.5°	488.8	498.6	524.7	550.2	559.5
45°	459.4	473.2	500.1	528.0	537.9
47.5°	432.4	446.1	477.1	507.0	515.9
50°	405.3	420.1	452.5	483.4	492.2
52.5°	377.4	393.2	427.9	458.8	469.3
55°	347.9	366.2	402.5	433.9	443.2
57.5°	320.0	338.6	377.4	409.3	418.6
60°	292.5	311.7	351.4	381.8	391.7
62.5°	262.1	284.7	325.9	355.8	363.2
65°	234.6	257.7	297.9	327.8	336.2
67.5°	205.6	230.6	270.9	298.3	306.3
70°	178.2	204.2	242.9	268.5	271.9
72.5°	148.8	175.2	214.4	230.6	230.6
75°	122.1	149.2	185.5	188.5	186.1
77.5°	93.2	123.2	146.7	140.8	135.0
80°	67.3	96.7	107.4	96.7	88.8
82.5°	45.1	70.1	64.7	51.5	45.7
85°	25.0	37.3	25.5	14.2	10.3
87.5°	9.3	8.4	2.4	2.4	2.4
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)