

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: P732544

Luminaire Tested: **14FCZ2-25-B2750-W2D-CA125-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732544  
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-CA125-4000K  
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT  
AND RIBBED LENS, WITH, CA125 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

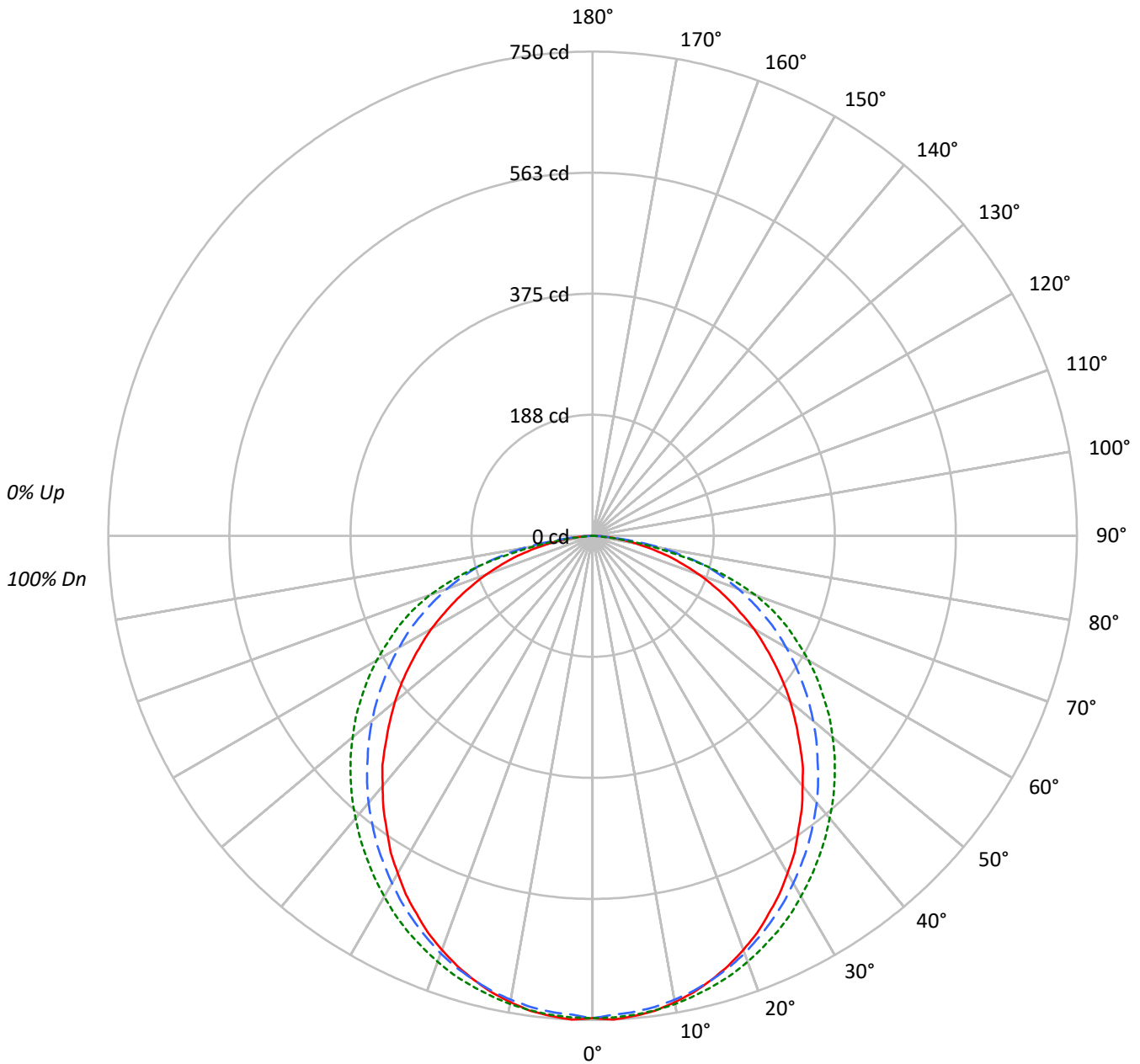
Lumens per Lamp: N/A  
Luminaire Lumens: 2169.0 lumens  
Efficiency: N/A  
Efficacy: 114.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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

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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	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°	2109	2109	2109
5°	2116	2098	2110
10°	2103	2092	2111
15°	2081	2082	2110
20°	2050	2068	2109
25°	2011	2047	2108
30°	1967	2026	2103
35°	1915	2008	2101
40°	1864	1989	2105
45°	1807	1967	2116
50°	1754	1958	2130
55°	1687	1952	2149
60°	1628	1955	2179
65°	1544	1961	2213
70°	1449	1976	2211
75°	1313	1994	1999
80°	1078	1721	1422
85°	797	816	327



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.7	3.3
10°-20°	202.0	9.3
20°-30°	304.3	14.0
30°-40°	365.1	16.8
40°-50°	380.6	17.5
50°-60°	352.3	16.2
60°-70°	284.7	13.1
70°-80°	173.6	8.0
80°-90°	35.8	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°	577.0	26.6
0°-40°	942.1	43.4
0°-60°	1675.0	77.2
0°-90°	2169.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2169.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	747	747	747	747	747	
5°	747	745	740	746	745	71
15°	712	712	712	722	722	201
25°	646	650	657	674	677	298
35°	556	564	583	604	610	348
45°	453	466	493	520	530	350
55°	343	361	397	428	437	307
65°	231	254	294	323	331	229
75°	120	147	183	186	183	126
85°	25	37	25	14	10	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	747.2	747.2	747.2	747.2	747.2
2.5°	750.2	747.8	742.4	747.8	746.7
5°	746.7	744.8	740.4	745.8	744.8
7.5°	741.9	739.9	736.1	742.4	741.4
10°	733.7	732.7	729.8	737.1	736.6
12.5°	724.1	723.5	722.1	730.3	729.8
15°	712.0	712.4	712.4	722.1	722.1
17.5°	698.4	699.3	701.3	712.0	713.4
20°	682.4	684.4	688.3	700.4	702.2
22.5°	666.0	667.5	673.2	687.7	689.7
25°	645.6	649.5	657.2	673.7	676.7
27.5°	626.3	629.7	640.3	657.2	662.2
30°	603.6	608.9	621.5	639.9	645.2
32.5°	581.9	587.6	602.1	623.4	628.2
35°	555.8	564.4	582.8	604.1	609.8
37.5°	532.1	540.2	561.1	584.3	591.1
40°	505.8	516.1	539.8	564.4	571.2
42.5°	481.7	491.3	517.0	542.2	551.4
45°	452.7	466.3	492.8	520.4	530.1
47.5°	426.1	439.7	470.2	499.6	508.4
50°	399.5	414.0	445.9	476.4	485.1
52.5°	371.9	387.5	421.7	452.2	462.4
55°	342.9	360.8	396.7	427.5	436.7
57.5°	315.3	333.7	371.9	403.3	412.5
60°	288.3	307.2	346.3	376.3	386.0
62.5°	258.3	280.5	321.2	350.6	357.9
65°	231.1	253.9	293.6	323.0	331.3
67.5°	202.7	227.3	267.0	294.0	301.9
70°	175.6	201.2	239.4	264.6	267.9
72.5°	146.6	172.7	211.3	227.3	227.3
75°	120.4	147.0	182.8	185.7	183.3
77.5°	91.9	121.4	144.6	138.7	133.0
80°	66.3	95.3	105.9	95.3	87.5
82.5°	44.5	69.1	63.8	50.7	45.0
85°	24.6	36.7	25.2	14.0	10.1
87.5°	9.2	8.3	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)