

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: P732416

Luminaire Tested: **14FCZ2-20-B2750-W2D-CA125-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732416  
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: 14FCZ2-20-B2750-W2D-CA125-2700K  
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT  
AND RIBBED LENS, WITH, CA125 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

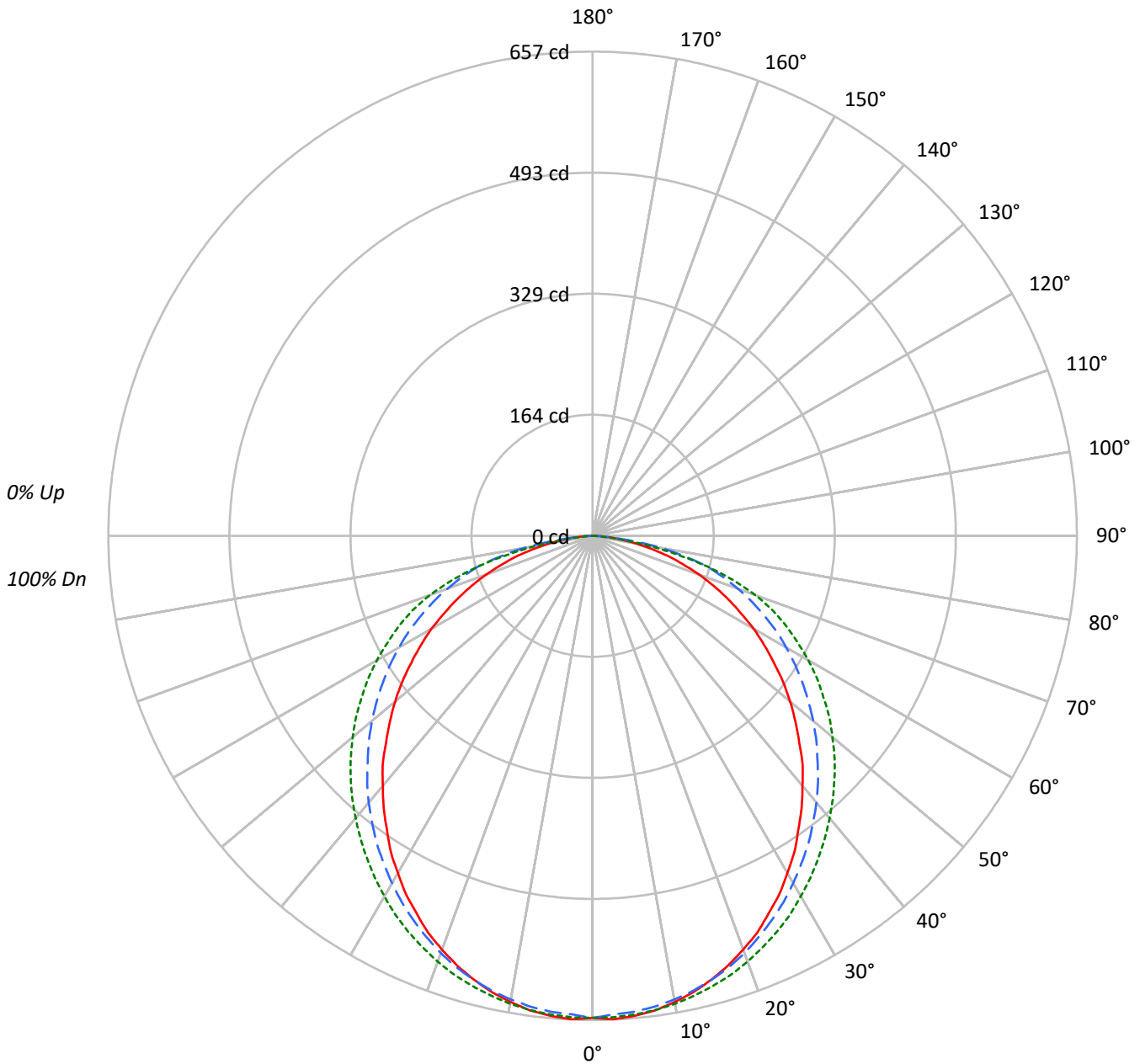
Lumens per Lamp: N/A  
Luminaire Lumens: 1899.0 lumens  
Efficiency: N/A  
Efficacy: 118.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 16  
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°	1847	1847	1847
5°	1853	1837	1848
10°	1841	1832	1848
15°	1821	1823	1847
20°	1794	1810	1847
25°	1761	1792	1845
30°	1722	1774	1841
35°	1677	1758	1840
40°	1632	1741	1843
45°	1582	1722	1853
50°	1536	1714	1865
55°	1477	1709	1882
60°	1425	1712	1908
65°	1352	1717	1937
70°	1269	1730	1935
75°	1149	1746	1750
80°	944	1507	1245
85°	700	713	288



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.9	3.3
10°-20°	176.8	9.3
20°-30°	266.4	14.0
30°-40°	319.7	16.8
40°-50°	333.2	17.5
50°-60°	308.5	16.2
60°-70°	249.2	13.1
70°-80°	152.0	8.0
80°-90°	31.4	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°	505.1	26.6
0°-40°	824.8	43.4
0°-60°	1466.5	77.2
0°-90°	1899.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1899.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	654	654	654	654	654	
5°	654	652	648	653	652	62
15°	623	624	624	632	632	176
25°	565	569	575	590	592	261
35°	487	494	510	529	534	305
45°	396	408	431	456	464	306
55°	300	316	347	374	382	269
65°	202	222	257	283	290	200
75°	105	129	160	163	160	111
85°	22	32	22	12	9	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	654.2	654.2	654.2	654.2	654.2
2.5°	656.8	654.7	650.0	654.7	653.8
5°	653.8	652.1	648.3	652.9	652.1
7.5°	649.6	647.8	644.4	650.0	649.1
10°	642.3	641.5	639.0	645.4	644.9
12.5°	633.9	633.5	632.2	639.4	639.0
15°	623.3	623.7	623.7	632.2	632.2
17.5°	611.4	612.3	614.0	623.3	624.6
20°	597.4	599.2	602.6	613.2	614.8
22.5°	583.1	584.4	589.4	602.1	603.9
25°	565.3	568.7	575.4	589.9	592.4
27.5°	548.4	551.3	560.6	575.4	579.7
30°	528.4	533.1	544.2	560.3	564.9
32.5°	509.4	514.4	527.2	545.8	550.0
35°	486.6	494.2	510.3	528.9	533.9
37.5°	465.8	472.9	491.2	511.5	517.5
40°	442.9	451.8	472.6	494.2	500.1
42.5°	421.8	430.2	452.7	474.7	482.7
45°	396.4	408.2	431.4	455.6	464.1
47.5°	373.0	384.9	411.6	437.4	445.1
50°	349.7	362.4	390.4	417.1	424.7
52.5°	325.6	339.2	369.2	395.9	404.9
55°	300.2	315.9	347.3	374.3	382.4
57.5°	276.1	292.1	325.6	353.1	361.2
60°	252.4	268.9	303.2	329.4	338.0
62.5°	226.2	245.6	281.2	306.9	313.4
65°	202.4	222.3	257.0	282.8	290.0
67.5°	177.4	199.0	233.7	257.4	264.3
70°	153.8	176.1	209.6	231.6	234.5
72.5°	128.3	151.2	185.0	199.0	199.0
75°	105.4	128.7	160.1	162.6	160.5
77.5°	80.4	106.3	126.6	121.5	116.5
80°	58.1	83.5	92.7	83.5	76.6
82.5°	38.9	60.5	55.8	44.4	39.4
85°	21.6	32.2	22.0	12.2	8.9
87.5°	8.0	7.2	2.1	2.1	2.1
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)