

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: P732495

Luminaire Tested: **14FCZ2-20-S-B2750-W2D-CA125-5000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732495  
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: 14FCZ2-20-S-B2750-W2D-CA125-5000K  
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT  
AND SMOOTH LENS, WITH, CA125 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

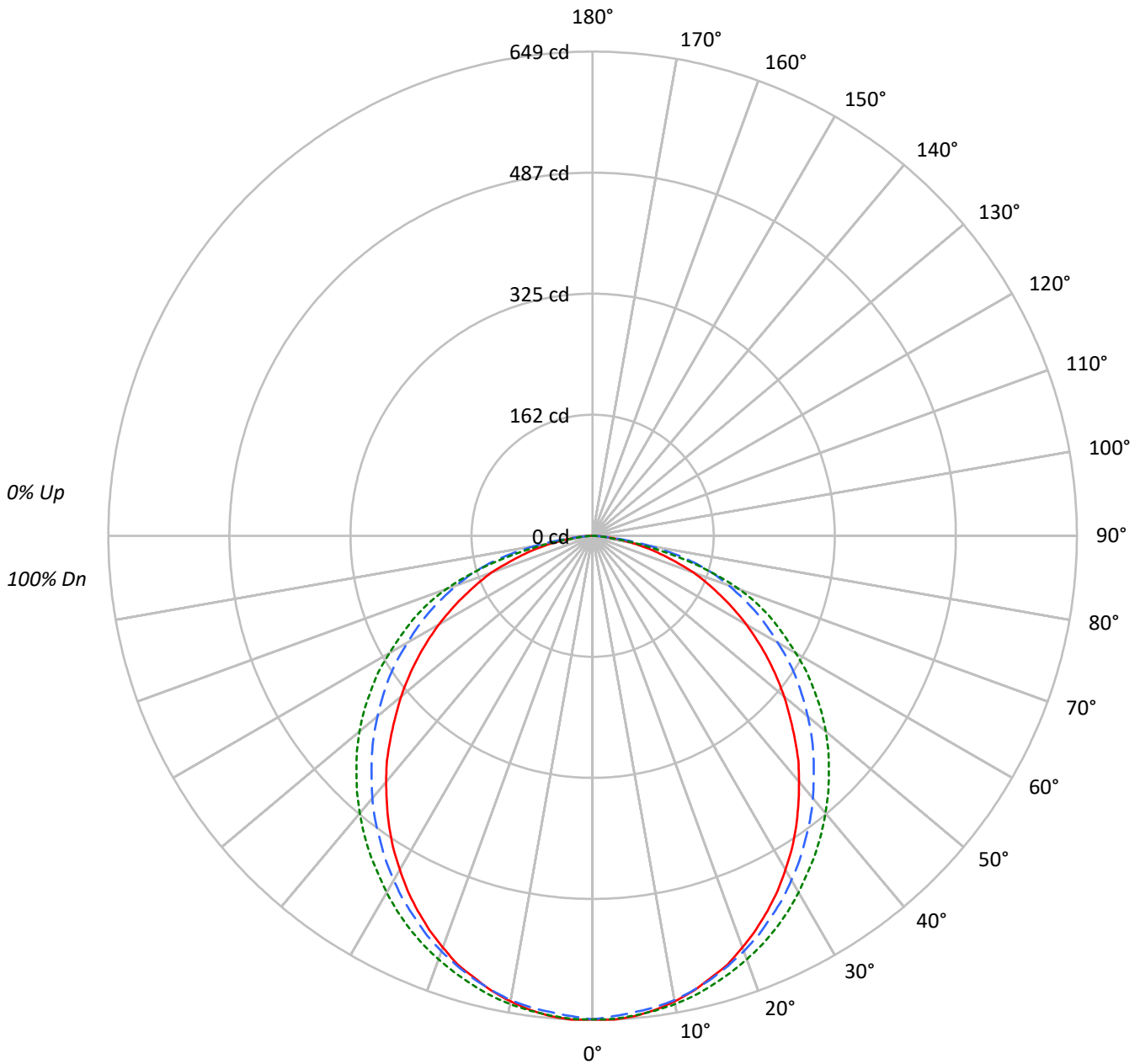
Lumens per Lamp: N/A  
Luminaire Lumens: 1816.0 lumens  
Efficiency: N/A  
Efficacy: 113.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	1830	1830	1830
5°	1832	1817	1829
10°	1817	1812	1827
15°	1792	1797	1821
20°	1764	1780	1815
25°	1727	1758	1809
30°	1684	1737	1799
35°	1638	1713	1793
40°	1586	1692	1788
45°	1527	1671	1786
50°	1471	1652	1791
55°	1409	1640	1786
60°	1342	1616	1774
65°	1263	1612	1775
70°	1189	1598	1724
75°	1032	1562	1472
80°	834	1260	980
85°	554	437	291



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.2	3.4
10°-20°	174.2	9.6
20°-30°	261.3	14.4
30°-40°	311.7	17.2
40°-50°	322.2	17.7
50°-60°	294.2	16.2
60°-70°	231.5	12.8
70°-80°	134.8	7.4
80°-90°	24.8	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°	496.7	27.4
0°-40°	808.4	44.5
0°-60°	1424.9	78.5
0°-90°	1816.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1816.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	648	648	648	648	648	
5°	646	645	641	646	646	61
15°	613	614	615	623	623	173
25°	555	557	564	578	581	255
35°	475	482	497	516	520	297
45°	383	395	419	442	448	295
55°	286	302	333	358	363	256
65°	189	209	241	260	266	188
75°	95	117	143	140	135	101
85°	17	24	14	11	9	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	648.3	648.3	648.3	648.3	648.3
2.5°	649.2	647.4	644.6	649.2	648.3
5°	646.5	644.6	641.1	646.5	645.5
7.5°	641.1	639.2	637.5	642.9	642.0
10°	633.8	633.0	632.1	638.4	637.5
12.5°	624.9	624.9	624.0	631.2	631.2
15°	613.2	614.1	615.0	623.0	623.0
17.5°	602.4	601.5	604.2	613.2	614.1
20°	587.1	588.8	592.5	603.3	604.2
22.5°	571.7	573.6	579.9	590.7	593.3
25°	554.6	557.4	564.5	578.0	580.8
27.5°	536.6	540.3	550.1	564.5	567.2
30°	516.8	522.2	533.0	549.2	552.0
32.5°	497.0	502.4	515.9	532.1	535.8
35°	475.4	481.7	497.0	515.9	520.4
37.5°	452.9	461.0	479.0	497.9	503.3
40°	430.4	439.4	459.2	479.0	485.3
42.5°	407.9	416.9	438.4	461.0	467.3
45°	382.6	395.3	418.7	442.1	447.5
47.5°	358.3	371.9	398.0	421.3	428.6
50°	335.0	348.4	376.3	400.7	407.9
52.5°	310.7	325.0	354.7	380.0	386.3
55°	286.3	301.6	333.2	357.5	362.9
57.5°	262.0	278.2	310.7	334.1	340.4
60°	237.8	254.9	286.3	309.7	314.2
62.5°	213.4	231.4	263.8	284.5	289.1
65°	189.1	208.9	241.3	260.3	265.7
67.5°	165.7	185.5	217.0	235.0	239.5
70°	144.1	162.1	193.6	207.1	208.9
72.5°	117.1	139.6	170.1	177.4	172.9
75°	94.6	117.1	143.2	140.4	135.0
77.5°	72.0	94.6	111.7	102.6	95.4
80°	51.3	73.8	77.5	63.9	60.3
82.5°	33.3	51.3	43.2	33.3	27.0
85°	17.1	24.3	13.5	10.8	9.0
87.5°	5.4	3.6	1.8	1.8	0.9
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)