

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: P732418

Luminaire Tested: **14FCZ2-20-B2750-W2D-CA125-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732418  
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-CA125-3500K  
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT  
AND RIBBED LENS, WITH, CA125 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

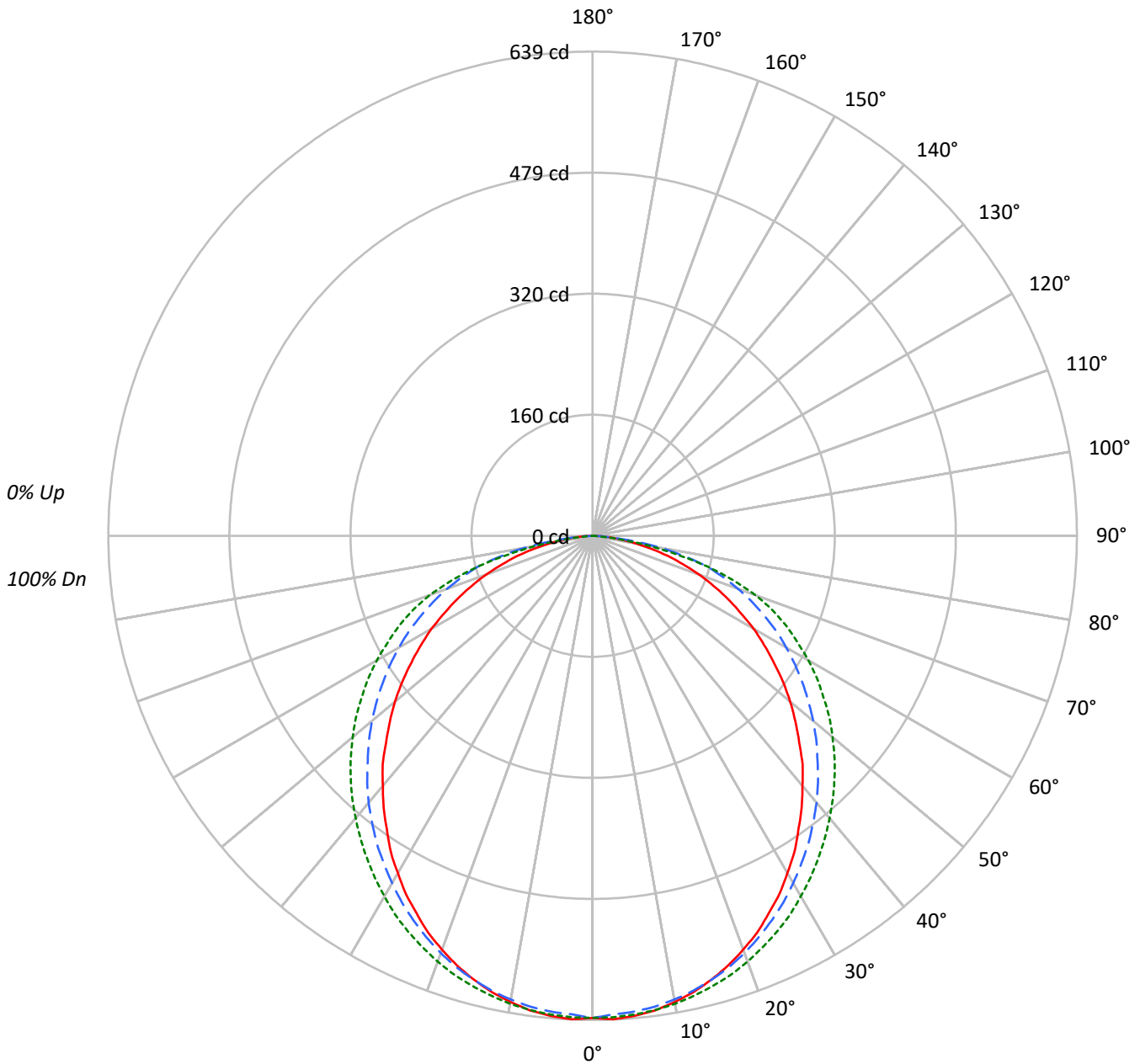
Lumens per Lamp: N/A  
Luminaire Lumens: 1847.0 lumens  
Efficiency: N/A  
Efficacy: 115.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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				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°	1796	1796	1796
5°	1802	1786	1797
10°	1791	1781	1798
15°	1772	1773	1797
20°	1746	1761	1796
25°	1712	1743	1795
30°	1675	1725	1791
35°	1631	1710	1789
40°	1587	1694	1792
45°	1539	1675	1802
50°	1494	1667	1814
55°	1437	1662	1830
60°	1386	1665	1856
65°	1314	1670	1884
70°	1235	1683	1883
75°	1118	1698	1702
80°	918	1465	1211
85°	680	693	279



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.2	3.3
10°-20°	172.0	9.3
20°-30°	259.1	14.0
30°-40°	310.9	16.8
40°-50°	324.1	17.5
50°-60°	300.0	16.2
60°-70°	242.4	13.1
70°-80°	147.8	8.0
80°-90°	30.5	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°	491.3	26.6
0°-40°	802.2	43.4
0°-60°	1426.3	77.2
0°-90°	1847.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1847.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	636	636	636	636	636	
5°	636	634	630	635	634	60
15°	606	607	607	615	615	171
25°	550	553	560	574	576	253
35°	473	481	496	514	519	296
45°	386	397	420	443	451	298
55°	292	307	338	364	372	262
65°	197	216	250	275	282	195
75°	102	125	156	158	156	108
85°	21	31	21	12	9	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	636.3	636.3	636.3	636.3	636.3
2.5°	638.8	636.8	632.2	636.8	635.9
5°	635.9	634.3	630.5	635.1	634.3
7.5°	631.8	630.1	626.8	632.2	631.3
10°	624.7	623.9	621.5	627.7	627.2
12.5°	616.6	616.1	614.9	621.9	621.5
15°	606.3	606.6	606.6	614.9	614.9
17.5°	594.7	595.5	597.2	606.3	607.5
20°	581.1	582.8	586.1	596.4	598.0
22.5°	567.1	568.4	573.3	585.6	587.3
25°	549.8	553.1	559.7	573.7	576.2
27.5°	533.4	536.2	545.3	559.7	563.9
30°	514.0	518.5	529.3	544.9	549.5
32.5°	495.5	500.4	512.7	530.9	534.9
35°	473.3	480.6	496.3	514.4	519.3
37.5°	453.1	460.0	477.8	497.5	503.3
40°	430.7	439.5	459.7	480.6	486.4
42.5°	410.2	418.4	440.3	461.7	469.5
45°	385.5	397.1	419.6	443.1	451.4
47.5°	362.8	374.4	400.4	425.4	432.9
50°	340.2	352.5	379.7	405.7	413.1
52.5°	316.7	329.9	359.1	385.0	393.8
55°	292.0	307.3	337.8	364.1	371.9
57.5°	268.5	284.1	316.7	343.4	351.3
60°	245.5	261.6	294.9	320.4	328.7
62.5°	220.0	238.9	273.5	298.5	304.8
65°	196.8	216.2	250.0	275.1	282.1
67.5°	172.6	193.5	227.3	250.4	257.0
70°	149.6	171.3	203.9	225.3	228.1
72.5°	124.8	147.1	179.9	193.5	193.5
75°	102.5	125.2	155.7	158.2	156.1
77.5°	78.2	103.4	123.1	118.1	113.3
80°	56.5	81.2	90.1	81.2	74.5
82.5°	37.9	58.8	54.3	43.2	38.3
85°	21.0	31.3	21.4	11.9	8.6
87.5°	7.8	7.0	2.0	2.0	2.0
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)