

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: P732415

Luminaire Tested: **14FCZ2-20-B2750-W2D-CA08-5000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732415  
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-CA08-5000K  
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT  
AND RIBBED LENS, WITH, CA08 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

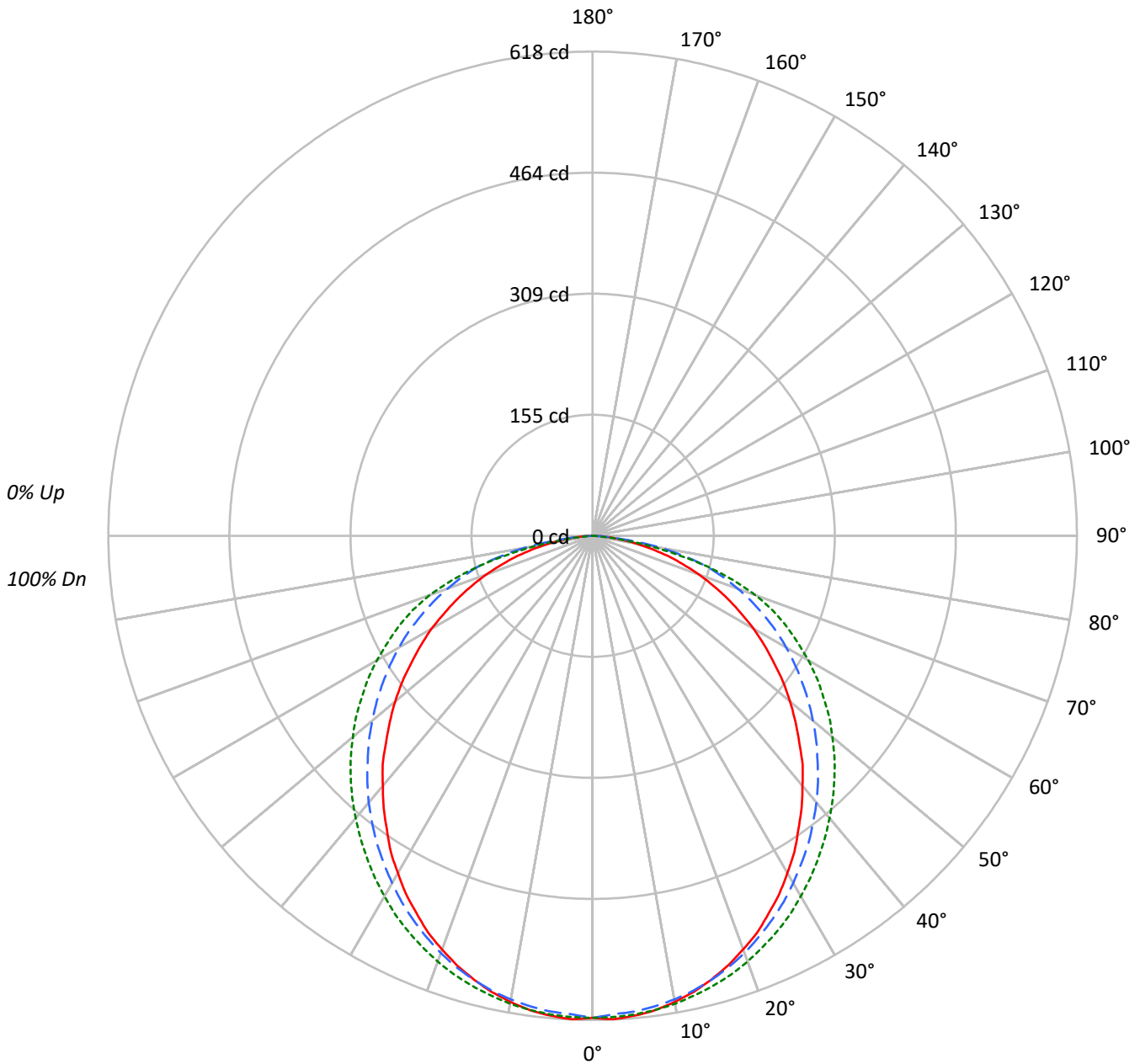
Lumens per Lamp: N/A  
Luminaire Lumens: 1786.0 lumens  
Efficiency: N/A  
Efficacy: 111.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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	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°	1737	1737	1737
5°	1742	1728	1738
10°	1731	1722	1738
15°	1713	1714	1738
20°	1688	1702	1737
25°	1656	1686	1735
30°	1620	1668	1732
35°	1577	1654	1730
40°	1535	1638	1733
45°	1488	1620	1742
50°	1444	1612	1754
55°	1389	1607	1770
60°	1340	1610	1794
65°	1271	1615	1822
70°	1193	1627	1821
75°	1081	1641	1647
80°	888	1417	1170
85°	657	670	269



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.2	3.3
10°-20°	166.3	9.3
20°-30°	250.5	14.0
30°-40°	300.7	16.8
40°-50°	313.4	17.5
50°-60°	290.1	16.2
60°-70°	234.4	13.1
70°-80°	142.9	8.0
80°-90°	29.5	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°	475.1	26.6
0°-40°	775.7	43.4
0°-60°	1379.2	77.2
0°-90°	1786.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1786.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	615	615	615	615	615	
5°	615	613	610	614	613	58
15°	586	587	587	595	595	165
25°	532	535	541	555	557	245
35°	458	465	480	497	502	287
45°	373	384	406	428	436	288
55°	282	297	327	352	360	253
65°	190	209	242	266	273	188
75°	99	121	150	153	151	104
85°	20	30	21	12	8	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	615.3	615.3	615.3	615.3	615.3
2.5°	617.7	615.7	611.3	615.7	614.9
5°	614.9	613.3	609.7	614.1	613.3
7.5°	610.9	609.3	606.1	611.3	610.5
10°	604.1	603.3	600.9	607.0	606.5
12.5°	596.2	595.8	594.6	601.4	600.9
15°	586.2	586.6	586.6	594.6	594.6
17.5°	575.1	575.8	577.5	586.2	587.4
20°	561.9	563.5	566.7	576.7	578.2
22.5°	548.4	549.6	554.3	566.3	567.9
25°	531.6	534.8	541.2	554.8	557.2
27.5°	515.7	518.5	527.3	541.2	545.2
30°	497.0	501.4	511.8	526.9	531.3
32.5°	479.1	483.8	495.8	513.3	517.3
35°	457.6	464.8	479.9	497.4	502.1
37.5°	438.1	444.8	462.0	481.1	486.7
40°	416.5	425.0	444.5	464.8	470.3
42.5°	396.7	404.6	425.7	446.4	454.0
45°	372.8	384.0	405.8	428.5	436.5
47.5°	350.8	362.0	387.1	411.4	418.6
50°	328.9	340.9	367.2	392.3	399.4
52.5°	306.2	319.0	347.2	372.3	380.8
55°	282.3	297.1	326.6	352.0	359.6
57.5°	259.6	274.8	306.2	332.1	339.7
60°	237.4	252.9	285.2	309.8	317.8
62.5°	212.7	231.0	264.4	288.7	294.7
65°	190.3	209.1	241.8	266.0	272.8
67.5°	166.9	187.2	219.8	242.1	248.6
70°	144.6	165.7	197.1	217.9	220.6
72.5°	120.7	142.2	174.0	187.2	187.2
75°	99.1	121.0	150.5	152.9	151.0
77.5°	75.7	100.0	119.1	114.2	109.5
80°	54.6	78.5	87.2	78.5	72.0
82.5°	36.6	56.9	52.5	41.8	37.1
85°	20.3	30.3	20.7	11.5	8.3
87.5°	7.6	6.8	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)