

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: P732487

Luminaire Tested: **14FCZ2-20-S-B2750-W2D-CA08-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732487  
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-CA08-3000K  
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT  
AND SMOOTH LENS, WITH, CA08 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

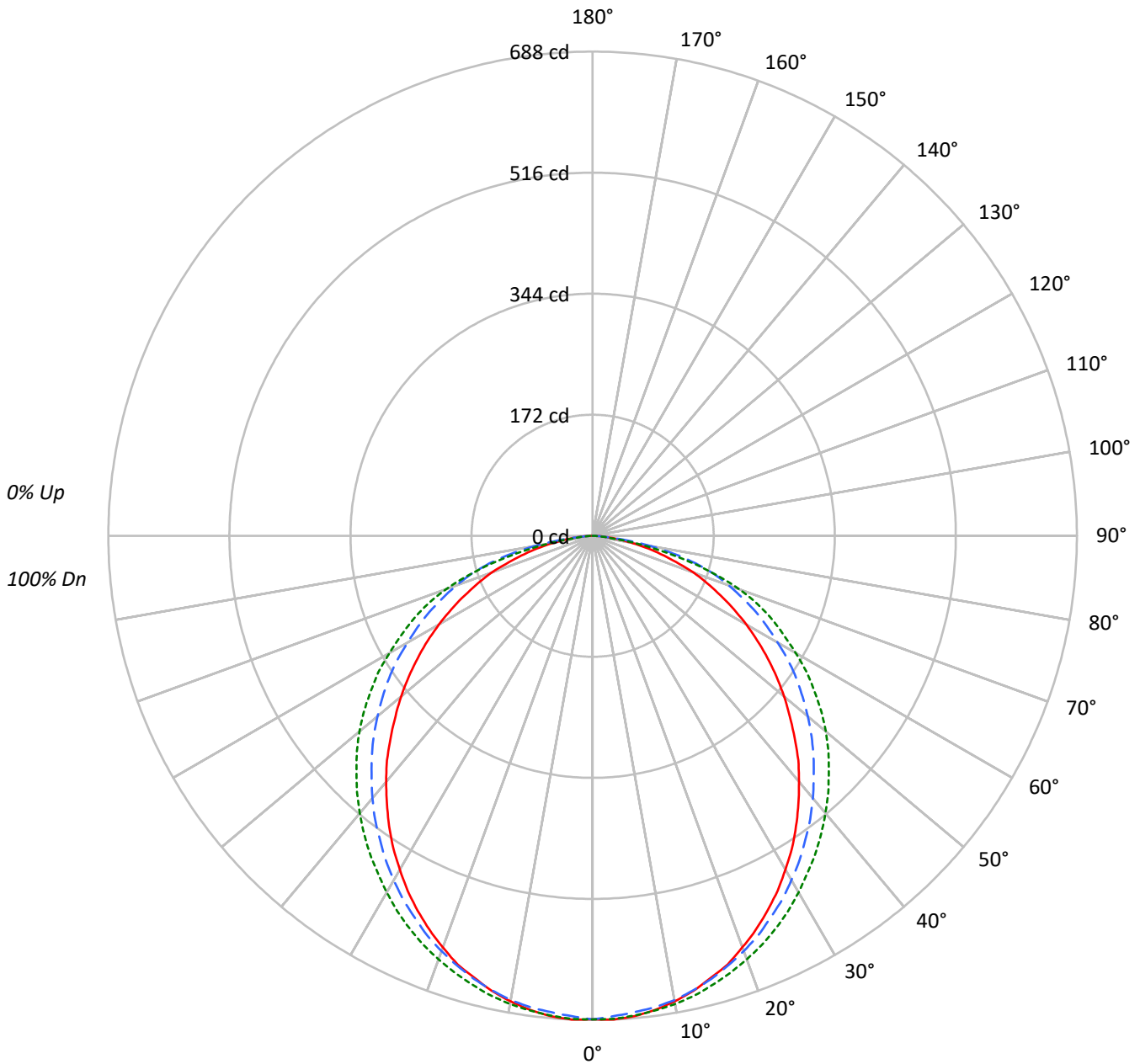
Lumens per Lamp: N/A  
Luminaire Lumens: 1925.0 lumens  
Efficiency: N/A  
Efficacy: 120.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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					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	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°	1940	1940	1940
5°	1942	1926	1939
10°	1926	1920	1937
15°	1899	1905	1930
20°	1869	1886	1924
25°	1831	1864	1917
30°	1785	1842	1907
35°	1736	1816	1901
40°	1681	1793	1896
45°	1619	1772	1893
50°	1559	1752	1899
55°	1494	1738	1893
60°	1423	1713	1880
65°	1339	1708	1881
70°	1260	1694	1827
75°	1093	1656	1561
80°	884	1335	1040
85°	586	463	311



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.9	3.4
10°-20°	184.7	9.6
20°-30°	277.0	14.4
30°-40°	330.4	17.2
40°-50°	341.6	17.7
50°-60°	311.9	16.2
60°-70°	245.4	12.7
70°-80°	142.9	7.4
80°-90°	26.3	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°	526.5	27.4
0°-40°	856.9	44.5
0°-60°	1510.4	78.5
0°-90°	1925.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1925.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	687	687	687	687	687	
5°	685	683	680	685	684	65
15°	650	651	652	660	660	183
25°	588	591	598	613	616	271
35°	504	511	527	547	552	315
45°	406	419	444	469	474	313
55°	304	320	353	379	385	271
65°	200	221	256	276	282	199
75°	100	124	152	149	143	107
85°	18	26	14	12	10	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	687.2	687.2	687.2	687.2	687.2
2.5°	688.1	686.3	683.3	688.1	687.2
5°	685.3	683.3	679.6	685.3	684.3
7.5°	679.6	677.6	675.7	681.5	680.5
10°	671.9	670.9	670.0	676.7	675.7
12.5°	662.4	662.4	661.5	669.1	669.1
15°	650.0	650.9	651.9	660.4	660.4
17.5°	638.5	637.6	640.4	650.0	650.9
20°	622.3	624.2	628.0	639.5	640.4
22.5°	606.0	608.0	614.7	626.2	629.0
25°	587.9	590.8	598.4	612.7	615.6
27.5°	568.8	572.7	583.1	598.4	601.2
30°	547.8	553.5	565.0	582.2	585.1
32.5°	526.9	532.6	546.9	564.1	567.9
35°	503.9	510.6	526.9	546.9	551.7
37.5°	480.1	488.6	507.8	527.8	533.5
40°	456.2	465.8	486.7	507.8	514.5
42.5°	432.4	442.0	464.8	488.6	495.4
45°	405.6	419.0	443.8	468.6	474.3
47.5°	379.9	394.2	421.8	446.6	454.4
50°	355.1	369.3	398.9	424.8	432.4
52.5°	329.3	344.5	376.0	402.8	409.4
55°	303.5	319.7	353.2	378.9	384.6
57.5°	277.8	294.9	329.3	354.1	360.8
60°	252.0	270.2	303.5	328.3	333.1
62.5°	226.2	245.2	279.6	301.6	306.4
65°	200.5	221.4	255.8	275.9	281.6
67.5°	175.7	196.6	230.0	249.1	253.9
70°	152.7	171.8	205.2	219.5	221.4
72.5°	124.1	147.9	180.3	188.1	183.3
75°	100.2	124.1	151.8	148.9	143.1
77.5°	76.4	100.2	118.4	108.8	101.2
80°	54.4	78.2	82.1	67.7	64.0
82.5°	35.3	54.4	45.8	35.3	28.7
85°	18.1	25.7	14.3	11.5	9.6
87.5°	5.7	3.9	1.9	1.9	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)