

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: P732662

Luminaire Tested: **14FCZ2-29-B2750-W2D-CA08-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732662  
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: 14FCZ2-29-B2750-W2D-CA08-3000K  
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT  
AND RIBBED LENS, WITH, CA08 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

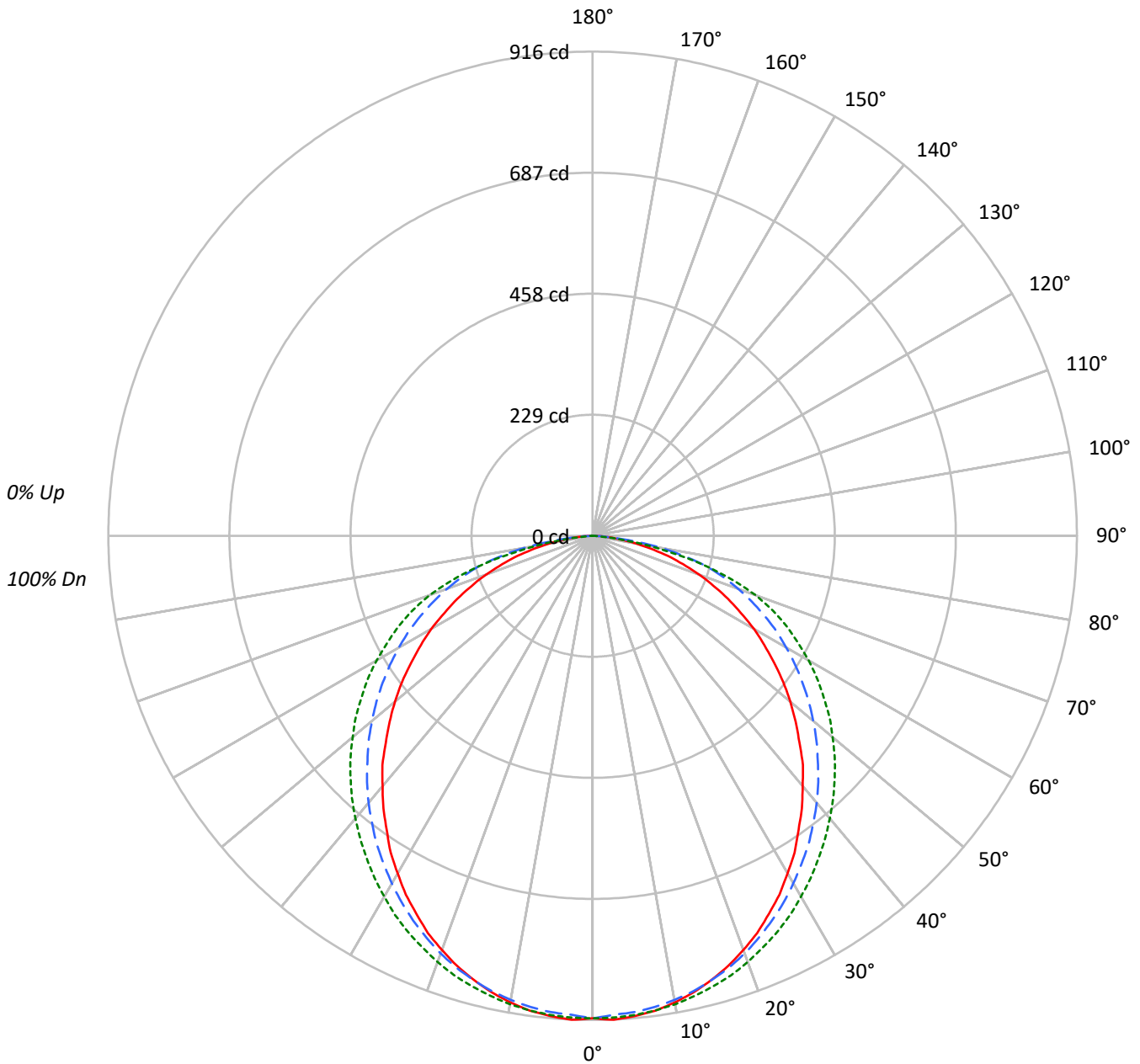
Lumens per Lamp: N/A  
Luminaire Lumens: 2650.0 lumens  
Efficiency: N/A  
Efficacy: 115.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 23  
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°	2577	2577	2577
5°	2585	2563	2578
10°	2569	2556	2579
15°	2542	2543	2578
20°	2504	2526	2577
25°	2457	2501	2575
30°	2403	2475	2569
35°	2340	2453	2568
40°	2277	2430	2572
45°	2208	2404	2585
50°	2143	2392	2602
55°	2061	2385	2626
60°	1988	2389	2662
65°	1886	2396	2703
70°	1771	2414	2701
75°	1604	2436	2443
80°	1317	2102	1738
85°	975	994	402



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.4	3.3
10°-20°	246.8	9.3
20°-30°	371.7	14.0
30°-40°	446.1	16.8
40°-50°	465.0	17.5
50°-60°	430.5	16.2
60°-70°	347.8	13.1
70°-80°	212.1	8.0
80°-90°	43.8	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°	704.9	26.6
0°-40°	1151.0	43.4
0°-60°	2046.4	77.2
0°-90°	2650.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2650.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	913	913	913	913	913	
5°	912	910	905	911	910	87
15°	870	870	870	882	882	245
25°	789	794	803	823	827	364
35°	679	690	712	738	745	425
45°	553	570	602	636	648	428
55°	419	441	485	522	534	375
65°	282	310	359	395	405	279
75°	147	180	223	227	224	155
85°	30	45	31	17	12	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	912.9	912.9	912.9	912.9	912.9
2.5°	916.5	913.6	907.1	913.6	912.3
5°	912.3	910.0	904.7	911.2	910.0
7.5°	906.4	904.0	899.3	907.1	905.8
10°	896.4	895.2	891.6	900.6	899.9
12.5°	884.6	884.0	882.2	892.3	891.6
15°	869.8	870.3	870.3	882.2	882.2
17.5°	853.2	854.4	856.8	869.8	871.6
20°	833.7	836.2	840.9	855.7	858.0
22.5°	813.7	815.5	822.5	840.2	842.7
25°	788.8	793.5	803.0	823.1	826.7
27.5°	765.2	769.3	782.3	803.0	809.0
30°	737.4	743.9	759.4	781.8	788.3
32.5°	710.9	717.9	735.6	761.7	767.5
35°	679.0	689.6	712.0	738.1	745.1
37.5°	650.1	660.0	685.5	713.8	722.1
40°	618.0	630.5	659.5	689.6	697.9
42.5°	588.6	600.3	631.7	662.4	673.6
45°	553.1	569.7	602.1	635.7	647.6
47.5°	520.6	537.2	574.4	610.4	621.1
50°	488.0	505.8	544.8	582.1	592.6
52.5°	454.4	473.4	515.2	552.5	565.0
55°	418.9	440.9	484.6	522.4	533.6
57.5°	385.2	407.7	454.4	492.8	504.0
60°	352.2	375.3	423.1	459.7	471.6
62.5°	315.6	342.8	392.4	428.3	437.3
65°	282.4	310.2	358.7	394.7	404.7
67.5°	247.6	277.7	326.2	359.2	368.8
70°	214.6	245.8	292.5	323.2	327.3
72.5°	179.1	211.0	258.2	277.7	277.7
75°	147.1	179.6	223.4	226.9	224.0
77.5°	112.2	148.4	176.7	169.5	162.5
80°	81.0	116.5	129.3	116.5	106.9
82.5°	54.3	84.4	77.9	62.0	55.0
85°	30.1	44.9	30.7	17.1	12.4
87.5°	11.2	10.1	2.9	2.9	2.9
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)