

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: P732613

Luminaire Tested: **14FCZ2-25-S-B2750-W2D-CA08-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732613  
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: 14FCZ2-25-S-B2750-W2D-CA08-3500K  
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT  
AND SMOOTH LENS, WITH, CA08 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

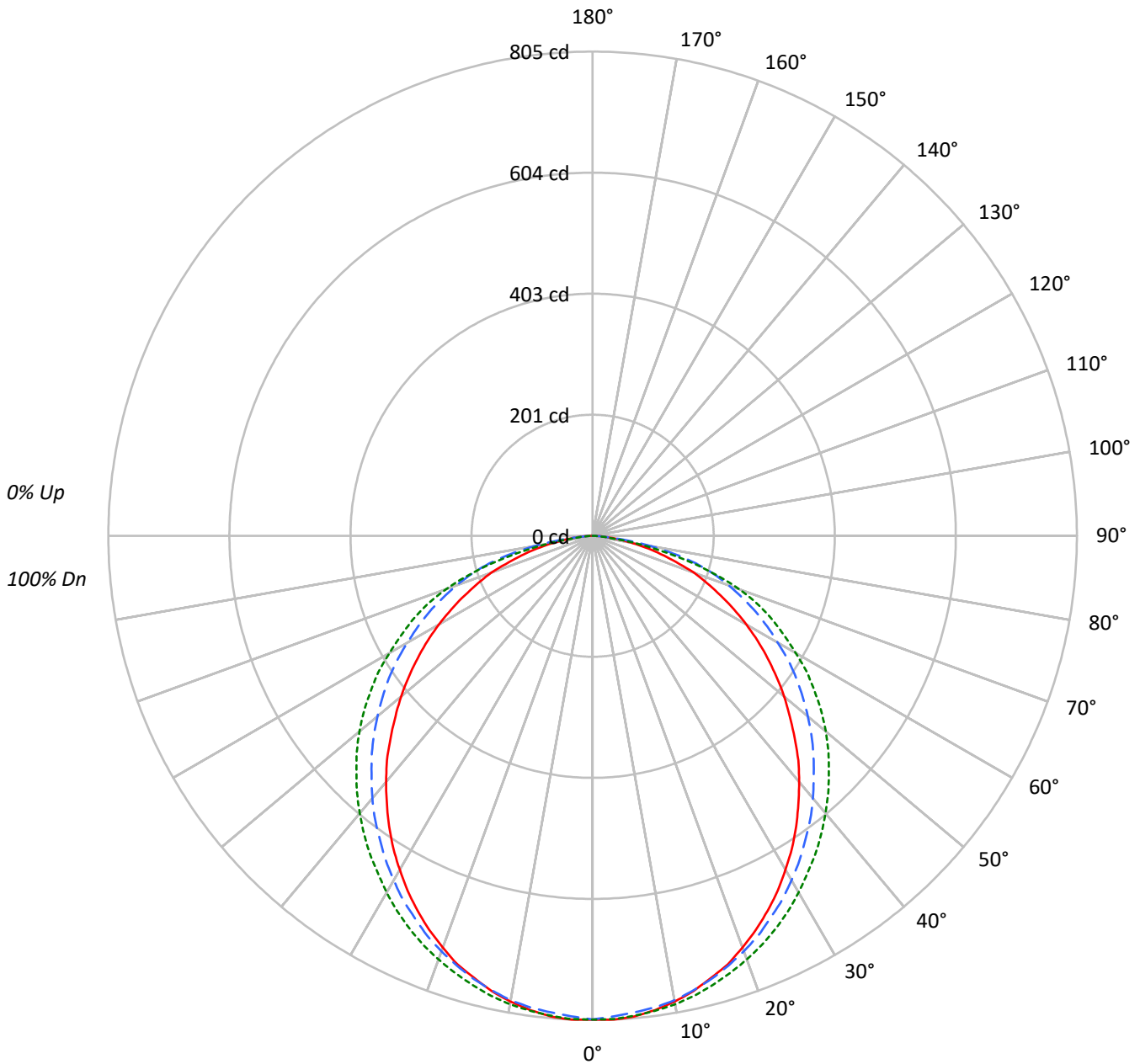
Lumens per Lamp: N/A  
Luminaire Lumens: 2253.0 lumens  
Efficiency: N/A  
Efficacy: 118.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 19  
Input Voltage (V): NR  
Input Current (Ain): 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°	2270	2270	2270
5°	2273	2254	2269
10°	2254	2248	2267
15°	2223	2230	2259
20°	2188	2208	2251
25°	2143	2181	2244
30°	2090	2155	2232
35°	2032	2125	2225
40°	1968	2099	2219
45°	1895	2073	2216
50°	1825	2050	2222
55°	1748	2034	2216
60°	1665	2005	2201
65°	1567	2000	2201
70°	1476	1982	2138
75°	1279	1938	1827
80°	1034	1562	1218
85°	687	541	363



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.9	3.4
10°-20°	216.1	9.6
20°-30°	324.2	14.4
30°-40°	386.7	17.2
40°-50°	399.8	17.7
50°-60°	365.0	16.2
60°-70°	287.2	12.7
70°-80°	167.2	7.4
80°-90°	30.8	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°	616.2	27.4
0°-40°	1002.9	44.5
0°-60°	1767.8	78.5
0°-90°	2253.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2253.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	804	804	804	804	804	
5°	802	800	795	802	801	76
15°	761	762	763	773	773	215
25°	688	692	700	717	720	317
35°	590	598	617	640	646	369
45°	475	490	519	548	555	367
55°	355	374	413	444	450	318
65°	235	259	299	323	330	233
75°	117	145	178	174	168	125
85°	21	30	17	13	11	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	804.3	804.3	804.3	804.3	804.3
2.5°	805.4	803.2	799.8	805.4	804.3
5°	802.1	799.8	795.4	802.1	800.9
7.5°	795.4	793.1	790.9	797.6	796.5
10°	786.4	785.3	784.2	792.0	790.9
12.5°	775.3	775.3	774.2	783.1	783.1
15°	760.8	761.9	763.0	772.9	772.9
17.5°	747.3	746.3	749.5	760.8	761.9
20°	728.3	730.5	735.0	748.4	749.5
22.5°	709.3	711.6	719.4	732.8	736.1
25°	688.1	691.5	700.4	717.1	720.5
27.5°	665.8	670.3	682.5	700.4	703.7
30°	641.1	647.8	661.3	681.4	684.8
32.5°	616.6	623.3	640.0	660.2	664.7
35°	589.8	597.6	616.6	640.0	645.6
37.5°	561.9	571.9	594.3	617.7	624.4
40°	534.0	545.2	569.7	594.3	602.1
42.5°	506.0	517.3	544.0	571.9	579.8
45°	474.7	490.4	519.4	548.5	555.2
47.5°	444.6	461.4	493.7	522.7	531.8
50°	415.6	432.3	466.9	497.1	506.0
52.5°	385.4	403.2	440.1	471.4	479.2
55°	355.2	374.2	413.4	443.5	450.2
57.5°	325.1	345.2	385.4	414.5	422.3
60°	295.0	316.2	355.2	384.2	389.8
62.5°	264.7	287.0	327.3	353.0	358.6
65°	234.6	259.1	299.4	322.9	329.6
67.5°	205.6	230.1	269.2	291.5	297.2
70°	178.8	201.1	240.2	256.9	259.1
72.5°	145.2	173.1	211.1	220.1	214.5
75°	117.3	145.2	177.7	174.2	167.5
77.5°	89.4	117.3	138.5	127.3	118.4
80°	63.6	91.6	96.1	79.3	74.9
82.5°	41.3	63.6	53.7	41.3	33.5
85°	21.2	30.1	16.7	13.4	11.2
87.5°	6.7	4.5	2.2	2.2	1.1
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)