

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: P732644

Luminaire Tested: **14FCZ2-25-SQR-B2750-W2D-CA125-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732644  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387389)  
Test Lab: INNOVATIONS CENTER(G2)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 14FCZ2-25-SQR-B2750-W2D-CA125-4000K  
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT  
AND SQR LENS, WITH, CA125 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

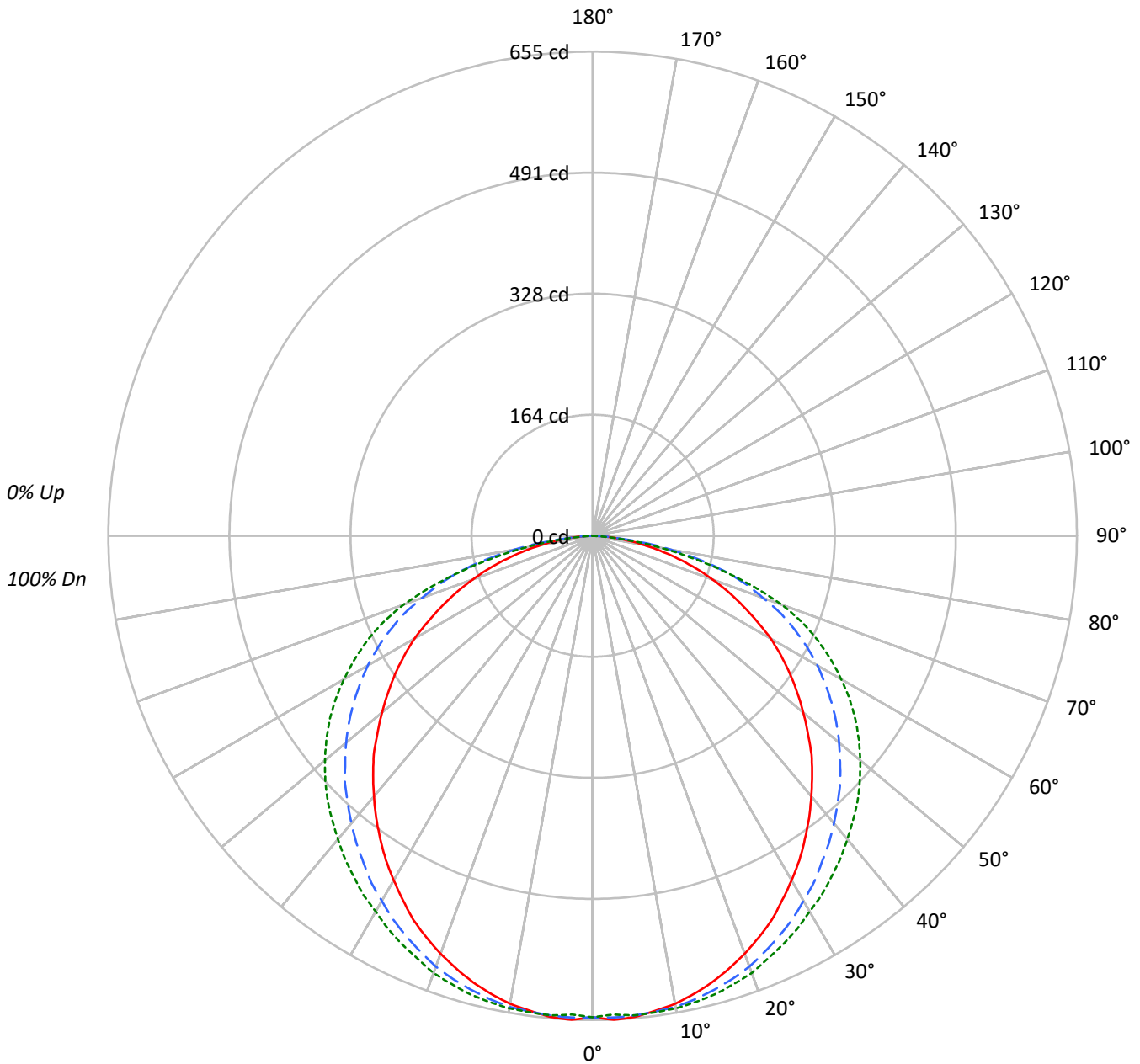
Lumens per Lamp: N/A  
Luminaire Lumens: 2061.0 lumens  
Efficiency: N/A  
Efficacy: 108.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 19  
Input Voltage (V): NR  
Input Current (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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83																			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56																			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	51	60	54	50	48																			
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41																			
6	68	55	45	39	67	54	45	39	52	44	38	50	43	38	49	42	38	35																			
7	63	49	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28																			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25																			
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1839	1839	1839
5°	1851	1846	1846
10°	1843	1855	1861
15°	1827	1858	1876
20°	1807	1863	1891
25°	1786	1860	1899
30°	1754	1859	1913
35°	1725	1861	1940
40°	1695	1871	1975
45°	1671	1891	2023
50°	1633	1911	2075
55°	1605	1943	2137
60°	1571	1982	2193
65°	1499	2018	2248
70°	1423	2023	2246
75°	1303	2017	1983
80°	1113	1721	1536
85°	878	975	573



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.9	3.0
10°-20°	178.8	8.7
20°-30°	273.4	13.3
30°-40°	335.2	16.3
40°-50°	360.4	17.5
50°-60°	346.4	16.8
60°-70°	288.4	14.0
70°-80°	177.0	8.6
80°-90°	39.4	1.9
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°	514.1	24.9
0°-40°	849.3	41.2
0°-60°	1556.1	75.5
0°-90°	2061.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2061.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	651	651	651	651	651	
5°	653	647	651	651	651	62
15°	625	623	636	640	642	176
25°	573	578	597	605	610	264
35°	501	513	540	555	563	313
45°	419	437	474	496	507	322
55°	326	354	395	422	434	291
65°	224	259	302	327	337	222
75°	120	156	185	184	182	127
85°	27	40	30	21	18	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	651.4	651.4	651.4	651.4	651.4
2.5°	655.4	649.2	652.4	651.4	648.2
5°	653.4	647.2	651.4	651.4	651.4
7.5°	648.2	643.0	649.2	650.2	650.2
10°	643.0	638.8	647.2	648.2	649.2
12.5°	634.7	631.5	642.0	644.0	646.0
15°	625.3	623.3	635.7	639.8	642.0
17.5°	613.9	614.9	628.5	633.7	635.7
20°	601.4	604.6	620.1	625.3	629.5
22.5°	587.9	592.1	608.8	614.9	619.1
25°	573.4	578.5	597.3	604.6	609.8
27.5°	555.7	564.0	584.9	594.2	599.4
30°	538.1	547.4	570.3	581.7	586.9
32.5°	520.4	530.8	556.8	568.2	576.5
35°	500.7	513.2	540.1	554.7	563.0
37.5°	481.0	495.5	524.6	541.1	550.5
40°	460.1	475.8	507.9	526.6	535.9
42.5°	439.4	457.1	490.3	511.0	521.4
45°	418.6	437.4	473.6	495.5	506.9
47.5°	394.8	417.6	453.9	478.8	490.3
50°	371.9	396.8	435.2	461.2	472.6
52.5°	349.0	375.0	415.5	442.5	453.9
55°	326.1	354.2	394.8	421.7	434.2
57.5°	302.2	331.3	372.9	400.9	412.3
60°	278.3	308.5	351.1	377.1	388.4
62.5°	250.3	285.7	327.3	353.2	363.5
65°	224.4	258.6	302.2	327.3	336.6
67.5°	198.5	233.7	276.3	299.2	307.4
70°	172.4	207.8	245.1	267.0	272.1
72.5°	146.5	181.8	217.2	229.5	227.5
75°	119.5	155.9	184.9	183.9	181.8
77.5°	93.5	128.8	146.5	139.2	136.1
80°	68.5	102.9	105.9	98.7	94.5
82.5°	46.8	73.7	66.5	58.1	54.0
85°	27.1	40.4	30.1	20.7	17.7
87.5°	11.4	10.4	3.2	3.2	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)