

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: P732649

Luminaire Tested: **14FCZ2-25-SQR-B2750-W2D-CP187-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732649  
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-CP187-4000K  
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT  
AND SQR LENS, WITH, CP187 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

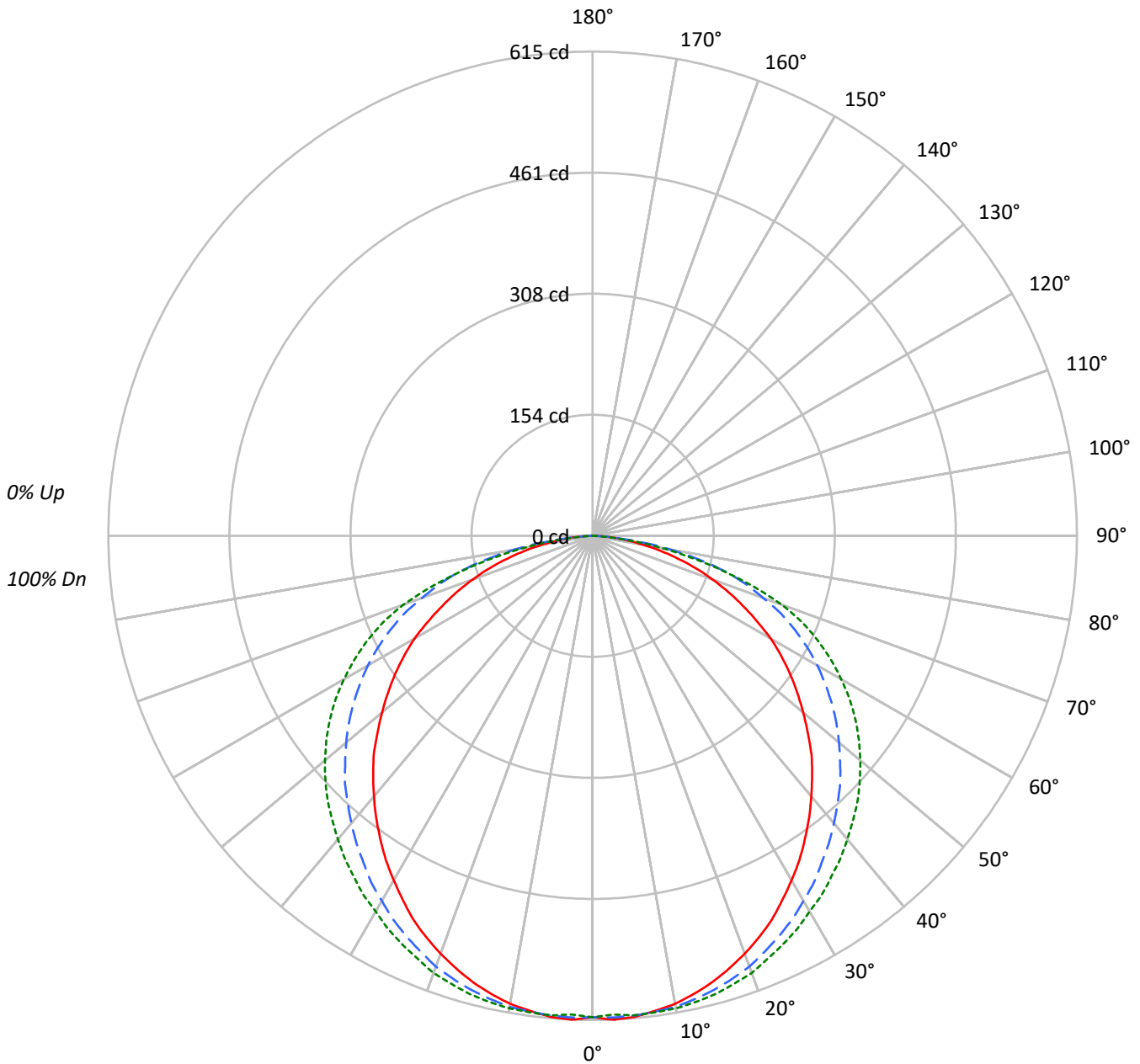
Lumens per Lamp: N/A  
Luminaire Lumens: 1935.0 lumens  
Efficiency: N/A  
Efficacy: 101.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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					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	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°	1726	1726	1726
5°	1738	1733	1733
10°	1730	1742	1747
15°	1716	1744	1761
20°	1696	1749	1775
25°	1677	1746	1783
30°	1647	1745	1796
35°	1620	1747	1821
40°	1592	1757	1854
45°	1569	1775	1900
50°	1533	1794	1948
55°	1507	1824	2006
60°	1475	1861	2059
65°	1407	1896	2111
70°	1336	1899	2109
75°	1223	1893	1862
80°	1045	1616	1443
85°	823	913	538



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.1	3.0
10°-20°	167.9	8.7
20°-30°	256.7	13.3
30°-40°	314.7	16.3
40°-50°	338.4	17.5
50°-60°	325.2	16.8
60°-70°	270.8	14.0
70°-80°	166.2	8.6
80°-90°	37.0	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°	482.7	24.9
0°-40°	797.4	41.2
0°-60°	1461.0	75.5
0°-90°	1935.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1935.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	612	612	612	612	612	
5°	613	608	612	612	612	58
15°	587	585	597	601	603	166
25°	538	543	561	568	572	248
35°	470	482	507	521	529	294
45°	393	411	445	465	476	302
55°	306	332	371	396	408	274
65°	211	243	284	307	316	209
75°	112	146	174	173	171	119
85°	25	38	28	20	17	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	611.5	611.5	611.5	611.5	611.5
2.5°	615.3	609.5	612.5	611.5	608.6
5°	613.4	607.6	611.5	611.5	611.5
7.5°	608.6	603.7	609.5	610.5	610.5
10°	603.7	599.8	607.6	608.6	609.5
12.5°	595.9	592.9	602.7	604.6	606.5
15°	587.1	585.2	596.8	600.7	602.7
17.5°	576.4	577.4	590.0	594.9	596.8
20°	564.7	567.6	582.2	587.1	591.0
22.5°	552.0	555.9	571.5	577.4	581.3
25°	538.3	543.2	560.7	567.6	572.5
27.5°	521.7	529.5	549.1	557.9	562.8
30°	505.2	514.0	535.5	546.1	551.0
32.5°	488.6	498.3	522.8	533.4	541.3
35°	470.1	481.8	507.1	520.7	528.6
37.5°	451.6	465.2	492.5	508.0	516.8
40°	432.0	446.7	476.8	494.4	503.2
42.5°	412.5	429.1	460.3	479.8	489.5
45°	393.1	410.6	444.7	465.2	475.9
47.5°	370.6	392.1	426.2	449.5	460.3
50°	349.1	372.5	408.6	433.0	443.7
52.5°	327.7	352.1	390.1	415.5	426.2
55°	306.2	332.5	370.6	395.9	407.6
57.5°	283.8	311.0	350.1	376.4	387.1
60°	261.3	289.7	329.7	354.0	364.7
62.5°	235.0	268.2	307.2	331.6	341.3
65°	210.6	242.8	283.8	307.2	316.0
67.5°	186.3	219.4	259.4	280.9	288.6
70°	161.9	195.1	230.1	250.6	255.5
72.5°	137.5	170.7	203.9	215.5	213.6
75°	112.1	146.3	173.6	172.7	170.7
77.5°	87.8	120.9	137.5	130.7	127.8
80°	64.3	96.6	99.4	92.7	88.8
82.5°	43.9	69.2	62.4	54.6	50.7
85°	25.4	38.0	28.2	19.5	16.6
87.5°	10.7	9.7	3.0	3.0	1.9
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)