

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: P732654

Luminaire Tested: **14FCZ2-25-SQR-B2750-W2D-CP250-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732654  
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-CP250-4000K  
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT  
AND SQR LENS, WITH, CP250 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

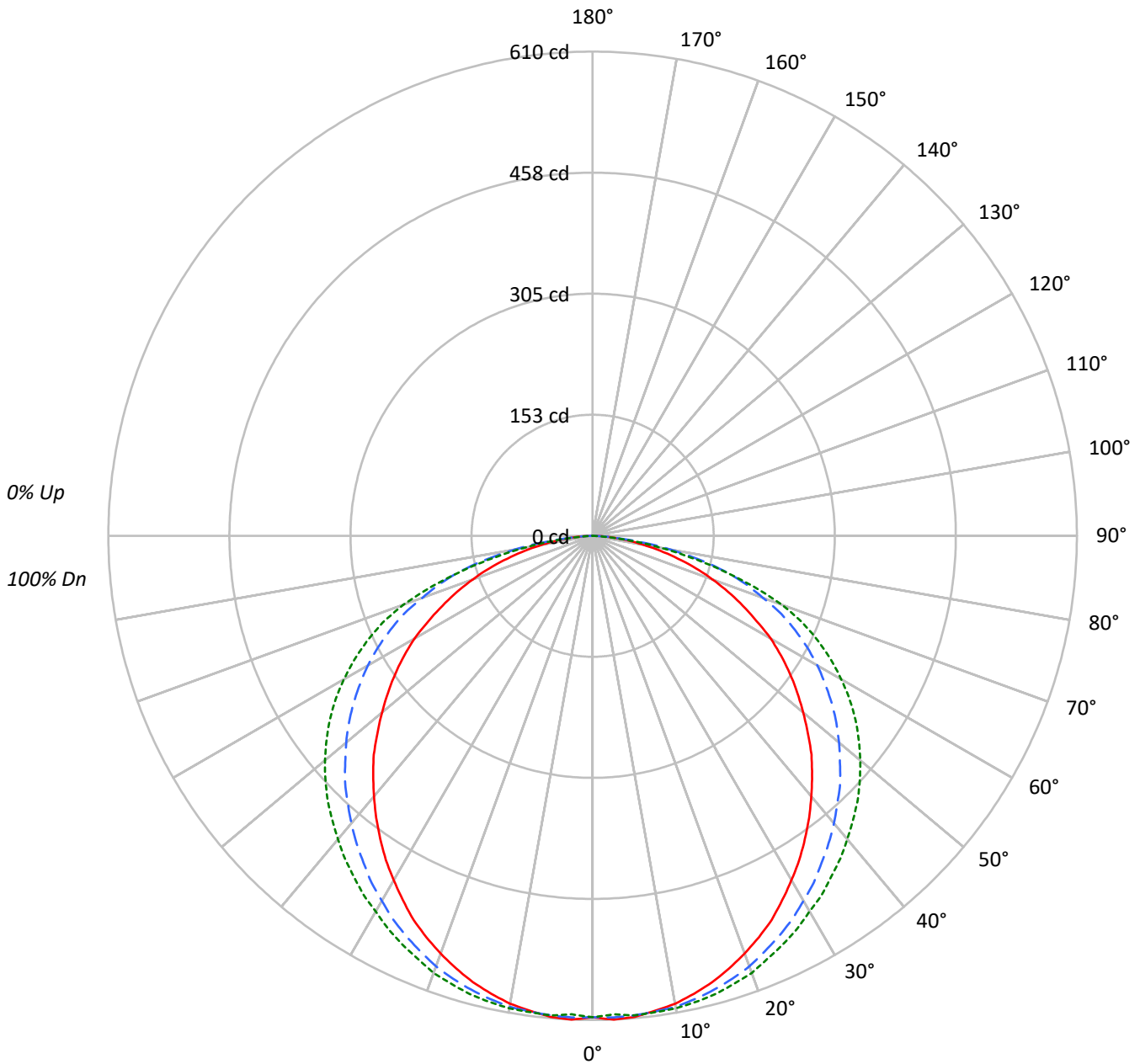
Lumens per Lamp: N/A  
Luminaire Lumens: 1919.0 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	1712	1712	1712
5°	1724	1718	1718
10°	1716	1727	1733
15°	1701	1730	1747
20°	1682	1734	1761
25°	1663	1732	1768
30°	1633	1731	1781
35°	1606	1733	1806
40°	1579	1743	1839
45°	1556	1760	1884
50°	1521	1779	1933
55°	1494	1809	1990
60°	1463	1846	2042
65°	1395	1879	2093
70°	1325	1883	2091
75°	1213	1878	1845
80°	1037	1603	1430
85°	816	907	534



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.6	3.0
10°-20°	166.5	8.7
20°-30°	254.6	13.3
30°-40°	312.1	16.3
40°-50°	335.6	17.5
50°-60°	322.5	16.8
60°-70°	268.6	14.0
70°-80°	164.8	8.6
80°-90°	36.7	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°	478.7	24.9
0°-40°	790.8	41.2
0°-60°	1448.9	75.5
0°-90°	1919.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1919.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	606	606	606	606	606	
5°	608	603	606	606	606	58
15°	582	580	592	596	598	164
25°	534	539	556	563	568	246
35°	466	478	503	516	524	292
45°	390	407	441	461	472	300
55°	304	330	368	393	404	271
65°	209	241	281	305	313	207
75°	111	145	172	171	169	118
85°	25	38	28	19	16	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	606.5	606.5	606.5	606.5	606.5
2.5°	610.2	604.5	607.4	606.5	603.5
5°	608.4	602.6	606.5	606.5	606.5
7.5°	603.5	598.7	604.5	605.4	605.4
10°	598.7	594.8	602.6	603.5	604.5
12.5°	590.9	588.0	597.8	599.6	601.5
15°	582.2	580.3	591.9	595.8	597.8
17.5°	571.6	572.6	585.2	590.0	591.9
20°	560.0	562.9	577.4	582.2	586.1
22.5°	547.4	551.3	566.8	572.6	576.5
25°	533.9	538.7	556.1	562.9	567.8
27.5°	517.4	525.1	544.6	553.3	558.1
30°	501.0	509.7	531.0	541.6	546.4
32.5°	484.5	494.2	518.4	529.0	536.8
35°	466.2	477.8	502.9	516.4	524.2
37.5°	447.8	461.4	488.4	503.8	512.6
40°	428.4	443.0	472.9	490.3	499.0
42.5°	409.1	425.6	456.5	475.8	485.5
45°	389.8	407.2	441.0	461.4	471.9
47.5°	367.6	388.9	422.6	445.8	456.5
50°	346.3	369.4	405.2	429.5	440.1
52.5°	325.0	349.2	386.9	412.0	422.6
55°	303.6	329.8	367.6	392.6	404.3
57.5°	281.4	308.5	347.2	373.3	383.9
60°	259.2	287.3	327.0	351.1	361.7
62.5°	233.0	266.0	304.7	328.8	338.5
65°	208.9	240.8	281.4	304.7	313.4
67.5°	184.8	217.6	257.3	278.6	286.2
70°	160.5	193.5	228.2	248.6	253.4
72.5°	136.4	169.2	202.2	213.7	211.8
75°	111.2	145.1	172.2	171.2	169.2
77.5°	87.1	119.9	136.4	129.6	126.8
80°	63.8	95.8	98.6	91.9	88.0
82.5°	43.5	68.6	61.9	54.1	50.3
85°	25.2	37.7	28.0	19.3	16.5
87.5°	10.6	9.7	2.9	2.9	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)