

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: P732655

Luminaire Tested: **14FCZ2-25-SQR-B2750-W2D-CP250-5000K**

Issue Date: 1/5/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P732655  
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-CP250-5000K  
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT  
AND SQR LENS, WITH, CP250 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

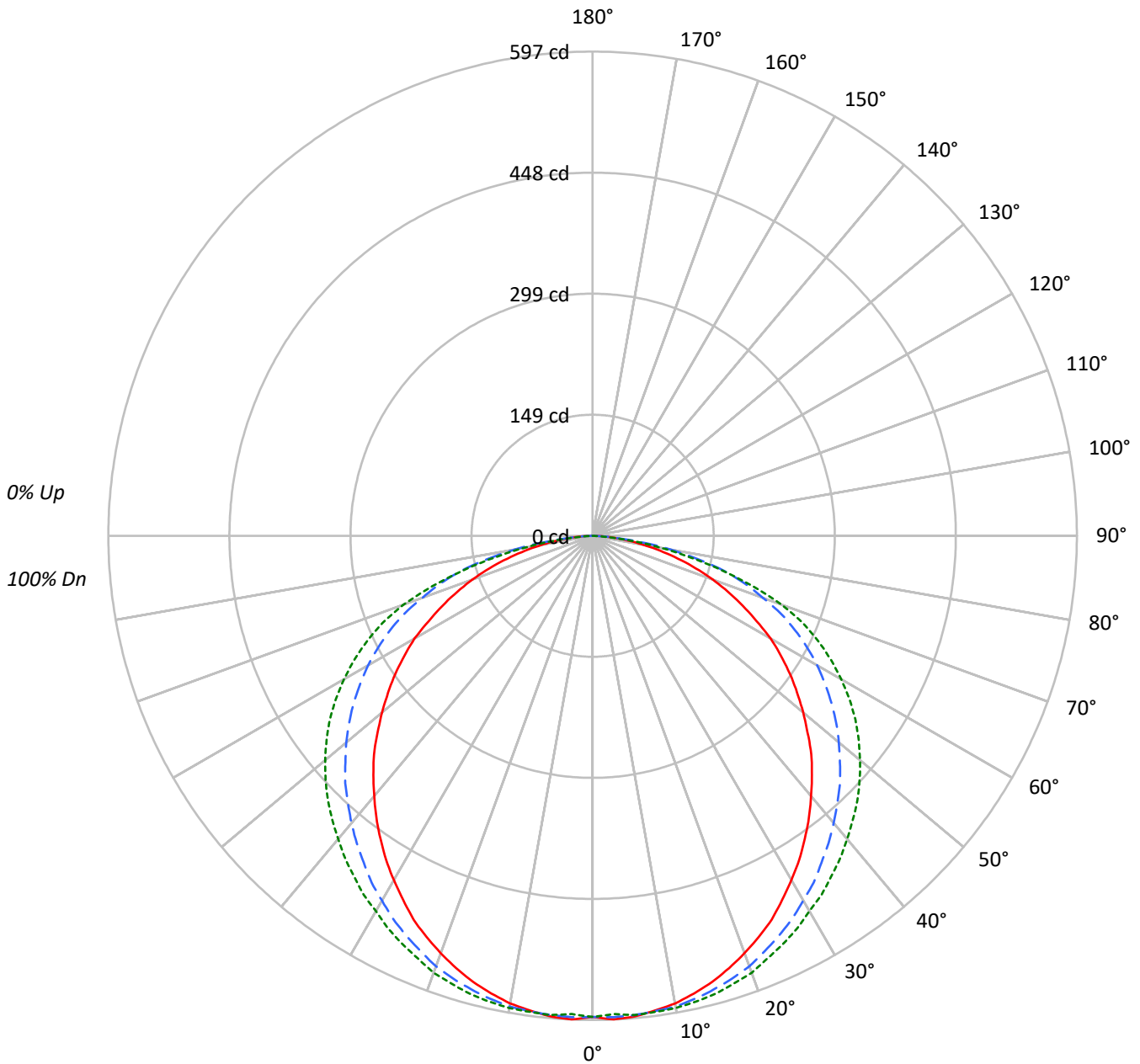
Lumens per Lamp: N/A  
Luminaire Lumens: 1877.0 lumens  
Efficiency: N/A  
Efficacy: 98.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P732655

CATALOG NUMBER: 14FCZ2-25-SQR-B2750-W2D-CP250-5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P732655

CATALOG NUMBER: 14FCZ2-25-SQR-B2750-W2D-CP250-5000K

**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°	1674	1674	1674
5°	1686	1681	1681
10°	1678	1689	1695
15°	1664	1692	1709
20°	1645	1697	1722
25°	1626	1694	1729
30°	1597	1693	1742
35°	1571	1695	1767
40°	1544	1704	1799
45°	1522	1722	1843
50°	1487	1740	1890
55°	1462	1769	1946
60°	1431	1805	1997
65°	1365	1838	2048
70°	1296	1842	2045
75°	1187	1837	1805
80°	1014	1569	1400
85°	797	887	521



TEST NUMBER: P732655

CATALOG NUMBER: 14FCZ2-25-SQR-B2750-W2D-CP250-5000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.4	3.0
10°-20°	162.8	8.7
20°-30°	249.0	13.3
30°-40°	305.2	16.3
40°-50°	328.3	17.5
50°-60°	315.5	16.8
60°-70°	262.7	14.0
70°-80°	161.2	8.6
80°-90°	35.9	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°	468.2	24.9
0°-40°	773.5	41.2
0°-60°	1417.2	75.5
0°-90°	1877.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1877.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	593	593	593	593	593	
5°	595	589	593	593	593	56
15°	570	568	579	583	585	161
25°	522	527	544	551	555	240
35°	456	467	492	505	513	285
45°	381	398	431	451	462	293
55°	297	323	360	384	395	265
65°	204	236	275	298	307	202
75°	109	142	168	168	166	115
85°	25	37	27	19	16	30
90°	0	0	0	0	0	



TEST NUMBER: P732655

CATALOG NUMBER: 14FCZ2-25-SQR-B2750-W2D-CP250-5000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	593.2	593.2	593.2	593.2	593.2
2.5°	596.9	591.2	594.1	593.2	590.3
5°	595.0	589.4	593.2	593.2	593.2
7.5°	590.3	585.6	591.2	592.2	592.2
10°	585.6	581.8	589.4	590.3	591.2
12.5°	578.0	575.1	584.7	586.5	588.4
15°	569.5	567.6	578.9	582.7	584.7
17.5°	559.1	560.0	572.4	577.1	578.9
20°	547.7	550.6	564.8	569.5	573.3
22.5°	535.4	539.2	554.4	560.0	563.8
25°	522.2	526.9	543.9	550.6	555.3
27.5°	506.1	513.7	532.6	541.2	545.9
30°	490.1	498.6	519.4	529.8	534.5
32.5°	473.9	483.4	507.1	517.5	525.1
35°	456.0	467.4	491.9	505.1	512.7
37.5°	438.0	451.3	477.7	492.8	501.3
40°	419.0	433.3	462.5	479.6	488.1
42.5°	400.1	416.3	446.5	465.4	474.9
45°	381.3	398.3	431.3	451.3	461.6
47.5°	359.5	380.3	413.4	436.1	446.5
50°	338.7	361.4	396.3	420.1	430.4
52.5°	317.8	341.6	378.4	403.0	413.4
55°	297.0	322.6	359.5	384.0	395.4
57.5°	275.2	301.7	339.6	365.2	375.5
60°	253.5	281.0	319.8	343.4	353.8
62.5°	227.9	260.2	298.0	321.6	331.1
65°	204.3	235.5	275.2	298.0	306.6
67.5°	180.7	212.9	251.6	272.5	280.0
70°	157.0	189.3	223.2	243.1	247.8
72.5°	133.4	165.5	197.8	209.1	207.2
75°	108.8	141.9	168.4	167.5	165.5
77.5°	85.2	117.3	133.4	126.7	124.0
80°	62.4	93.7	96.5	89.9	86.1
82.5°	42.6	67.1	60.6	53.0	49.2
85°	24.6	36.8	27.4	18.9	16.1
87.5°	10.4	9.4	2.9	2.9	1.8
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)