

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: P732645

Luminaire Tested: **14FCZ2-25-SQR-B2750-W2D-CA125-5000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732645  
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-CA125-5000K  
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT  
AND SQR LENS, WITH, CA125 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

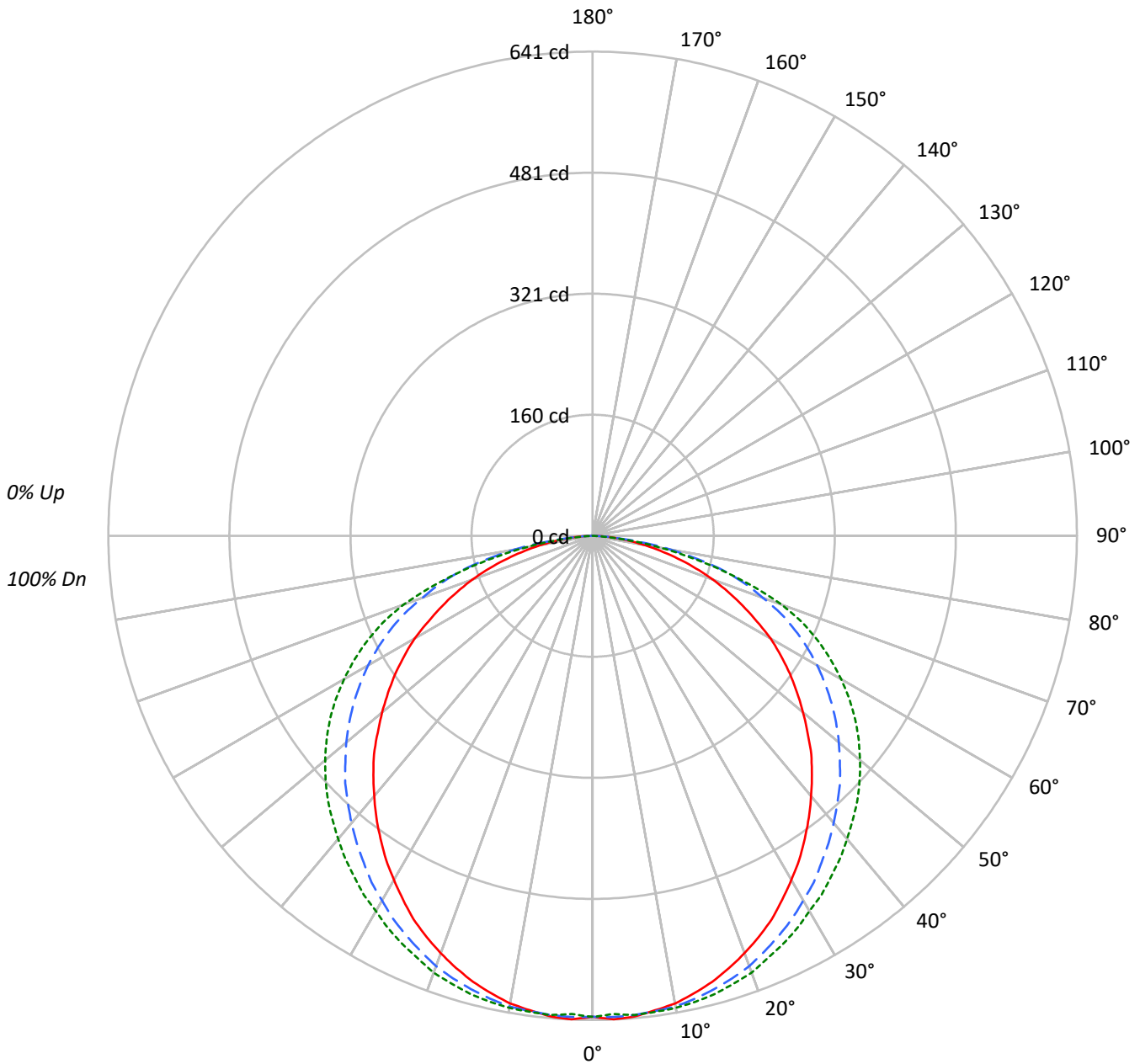
Lumens per Lamp: N/A  
Luminaire Lumens: 2015.0 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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: P732645

CATALOG NUMBER: 14FCZ2-25-SQR-B2750-W2D-CA125-5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P732645

CATALOG NUMBER: 14FCZ2-25-SQR-B2750-W2D-CA125-5000K

**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°	1797	1797	1797
5°	1810	1804	1804
10°	1802	1813	1819
15°	1787	1816	1834
20°	1766	1821	1849
25°	1746	1819	1857
30°	1715	1817	1870
35°	1687	1820	1897
40°	1657	1829	1931
45°	1634	1849	1978
50°	1597	1869	2029
55°	1569	1899	2089
60°	1536	1938	2144
65°	1465	1974	2198
70°	1391	1977	2196
75°	1274	1972	1938
80°	1089	1684	1502
85°	855	952	560



TEST NUMBER: P732645

CATALOG NUMBER: 14FCZ2-25-SQR-B2750-W2D-CA125-5000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.5	3.0
10°-20°	174.8	8.7
20°-30°	267.3	13.3
30°-40°	327.7	16.3
40°-50°	352.4	17.5
50°-60°	338.7	16.8
60°-70°	282.0	14.0
70°-80°	173.1	8.6
80°-90°	38.5	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°	502.7	24.9
0°-40°	830.3	41.2
0°-60°	1521.4	75.5
0°-90°	2015.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2015.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	637	637	637	637	637	
5°	639	633	637	637	637	61
15°	611	609	622	626	628	172
25°	561	566	584	591	596	258
35°	490	502	528	542	550	306
45°	409	428	463	484	496	315
55°	319	346	386	412	424	285
65°	219	253	296	320	329	217
75°	117	152	181	180	178	124
85°	26	40	29	20	17	32
90°	0	0	0	0	0	



TEST NUMBER: P732645

CATALOG NUMBER: 14FCZ2-25-SQR-B2750-W2D-CA125-5000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	636.8	636.8	636.8	636.8	636.8
2.5°	640.8	634.7	637.8	636.8	633.7
5°	638.8	632.7	636.8	636.8	636.8
7.5°	633.7	628.7	634.7	635.7	635.7
10°	628.7	624.6	632.7	633.7	634.7
12.5°	620.5	617.4	627.7	629.6	631.6
15°	611.4	609.4	621.5	625.6	627.7
17.5°	600.2	601.2	614.4	619.5	621.5
20°	588.0	591.1	606.3	611.4	615.4
22.5°	574.8	578.9	595.2	601.2	605.3
25°	560.6	565.6	583.9	591.1	596.2
27.5°	543.3	551.4	571.8	581.0	586.0
30°	526.1	535.2	557.6	568.7	573.8
32.5°	508.8	518.9	544.4	555.5	563.7
35°	489.5	501.7	528.1	542.3	550.4
37.5°	470.2	484.4	512.9	529.1	538.2
40°	449.8	465.2	496.5	514.8	524.0
42.5°	429.6	446.9	479.4	499.6	509.8
45°	409.3	427.6	463.1	484.4	495.6
47.5°	385.9	408.3	443.8	468.1	479.4
50°	363.6	387.9	425.5	450.9	462.1
52.5°	341.2	366.7	406.2	432.7	443.8
55°	318.8	346.3	385.9	412.3	424.5
57.5°	295.5	323.9	364.6	392.0	403.1
60°	272.1	301.7	343.3	368.6	379.8
62.5°	244.7	279.3	320.0	345.3	355.4
65°	219.4	252.8	295.5	320.0	329.1
67.5°	194.0	228.5	270.1	292.5	300.5
70°	168.6	203.2	239.6	261.0	266.1
72.5°	143.2	177.7	212.3	224.4	222.4
75°	116.8	152.4	180.8	179.8	177.7
77.5°	91.4	125.9	143.2	136.1	133.1
80°	67.0	100.6	103.6	96.5	92.4
82.5°	45.7	72.0	65.0	56.8	52.8
85°	26.4	39.5	29.4	20.3	17.3
87.5°	11.1	10.1	3.1	3.1	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)