

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: P732548

Luminaire Tested: **14FCZ2-25-B2750-W2D-CP187-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732548  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275502)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 14FCZ2-25-B2750-W2D-CP187-3500K  
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT  
AND RIBBED LENS, WITH, CP187 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

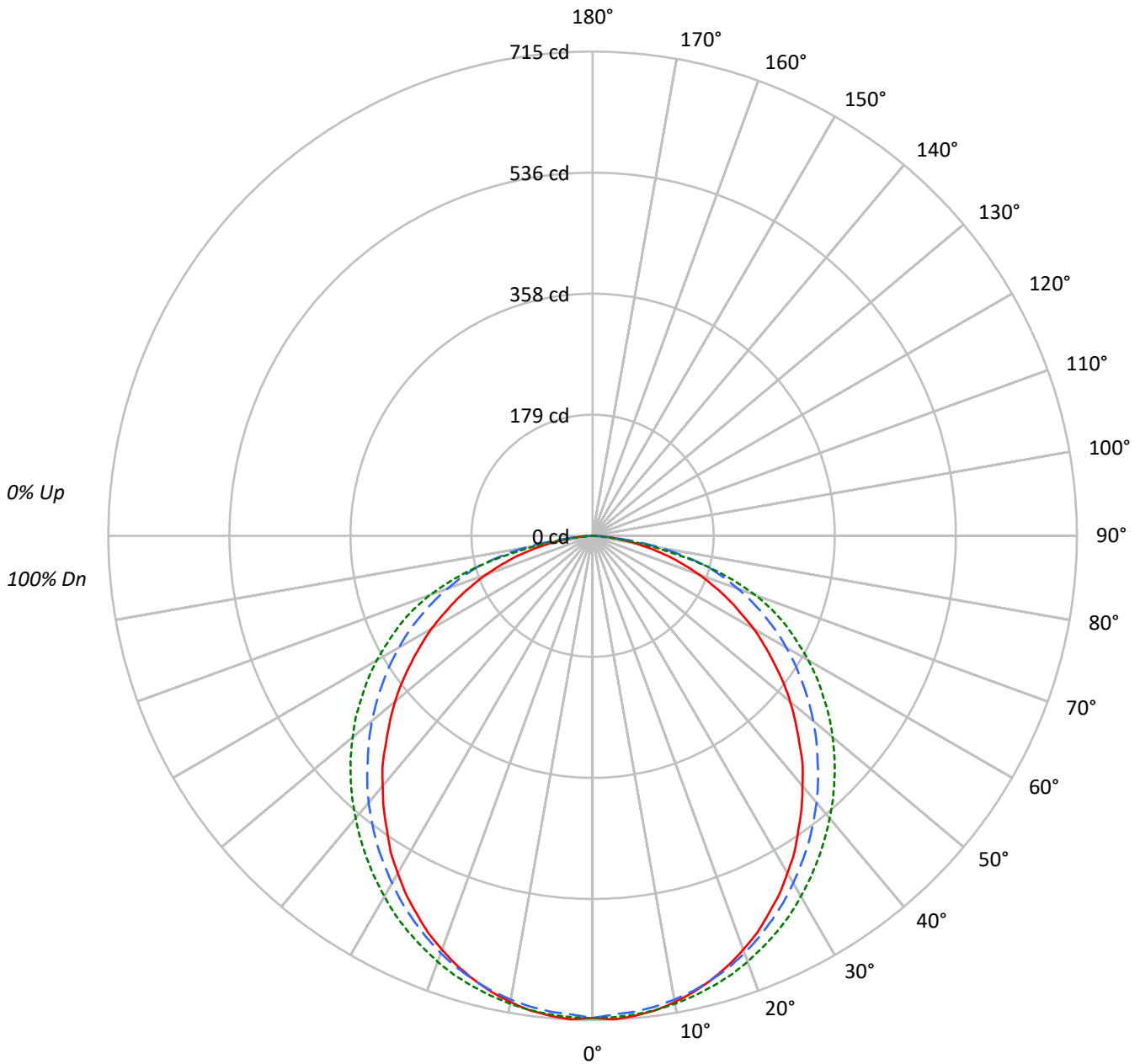
Lumens per Lamp: N/A  
Luminaire Lumens: 2067.0 lumens  
Efficiency: N/A  
Efficacy: 108.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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: P732548

CATALOG NUMBER: 14FCZ2-25-B2750-W2D-CP187-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P732548

CATALOG NUMBER: 14FCZ2-25-B2750-W2D-CP187-3500K

**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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83																			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69																			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58																			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32																			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29																			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24																			

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

	0°	45°	90°
0°	2010	2010	2010
5°	2016	1999	2011
10°	2004	1993	2012
15°	1983	1984	2011
20°	1953	1970	2010
25°	1916	1951	2008
30°	1875	1931	2004
35°	1825	1914	2003
40°	1776	1895	2006
45°	1722	1875	2016
50°	1672	1866	2030
55°	1608	1860	2048
60°	1551	1863	2077
65°	1471	1869	2109
70°	1382	1883	2107
75°	1251	1900	1905
80°	1027	1640	1356
85°	761	777	311



TEST NUMBER: P732548

CATALOG NUMBER: 14FCZ2-25-B2750-W2D-CP187-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.4	3.3
10°-20°	192.5	9.3
20°-30°	290.0	14.0
30°-40°	348.0	16.8
40°-50°	362.7	17.5
50°-60°	335.7	16.2
60°-70°	271.3	13.1
70°-80°	165.4	8.0
80°-90°	34.1	1.7
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°	549.8	26.6
0°-40°	897.8	43.4
0°-60°	1596.2	77.2
0°-90°	2067.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2067.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	712	712	712	712	712	
5°	712	710	706	711	710	68
15°	678	679	679	688	688	191
25°	615	619	626	642	645	284
35°	530	538	555	576	581	332
45°	431	444	470	496	505	333
55°	327	344	378	407	416	293
65°	220	242	280	308	316	218
75°	115	140	174	177	175	121
85°	24	35	24	13	10	29
90°	0	0	0	0	0	



TEST NUMBER: P732548

CATALOG NUMBER: 14FCZ2-25-B2750-W2D-CP187-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	712.1	712.1	712.1	712.1	712.1
2.5°	714.9	712.6	707.5	712.6	711.6
5°	711.6	709.8	705.6	710.7	709.8
7.5°	707.0	705.1	701.4	707.5	706.5
10°	699.2	698.3	695.5	702.5	701.9
12.5°	690.0	689.5	688.1	696.0	695.5
15°	678.5	678.9	678.9	688.1	688.1
17.5°	665.5	666.4	668.3	678.5	679.9
20°	650.3	652.2	655.9	667.4	669.2
22.5°	634.7	636.1	641.5	655.4	657.3
25°	615.3	619.0	626.3	642.1	644.8
27.5°	596.9	600.1	610.2	626.3	631.0
30°	575.2	580.3	592.3	609.8	614.9
32.5°	554.5	560.0	573.8	594.1	598.7
35°	529.6	537.9	555.4	575.7	581.2
37.5°	507.0	514.8	534.7	556.8	563.3
40°	482.1	491.8	514.4	537.9	544.4
42.5°	459.1	468.2	492.7	516.7	525.4
45°	431.4	444.4	469.6	495.9	505.1
47.5°	406.0	419.0	448.0	476.1	484.5
50°	380.7	394.5	425.0	454.0	462.3
52.5°	354.4	369.2	401.9	430.9	440.7
55°	326.7	343.9	378.0	407.4	416.2
57.5°	300.5	318.0	354.4	384.3	393.1
60°	274.7	292.7	330.0	358.6	367.9
62.5°	246.2	267.4	306.1	334.1	341.1
65°	220.3	242.0	279.8	307.8	315.7
67.5°	193.1	216.6	254.4	280.2	287.7
70°	167.4	191.7	228.1	252.1	255.3
72.5°	139.7	164.6	201.4	216.6	216.6
75°	114.7	140.1	174.2	177.0	174.7
77.5°	87.6	115.7	137.8	132.2	126.8
80°	63.2	90.9	100.9	90.9	83.4
82.5°	42.4	65.9	60.8	48.3	42.9
85°	23.5	35.0	24.0	13.3	9.6
87.5°	8.8	7.9	2.3	2.3	2.3
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)