

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: P732597

Luminaire Tested: **14FCZ2-25-RDP-B2750-W2D-CP187-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732597  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275838)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 14FCZ2-25-RDP-B2750-W2D-CP187-3000K  
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT  
AND RDP LENS, WITH, CP187 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

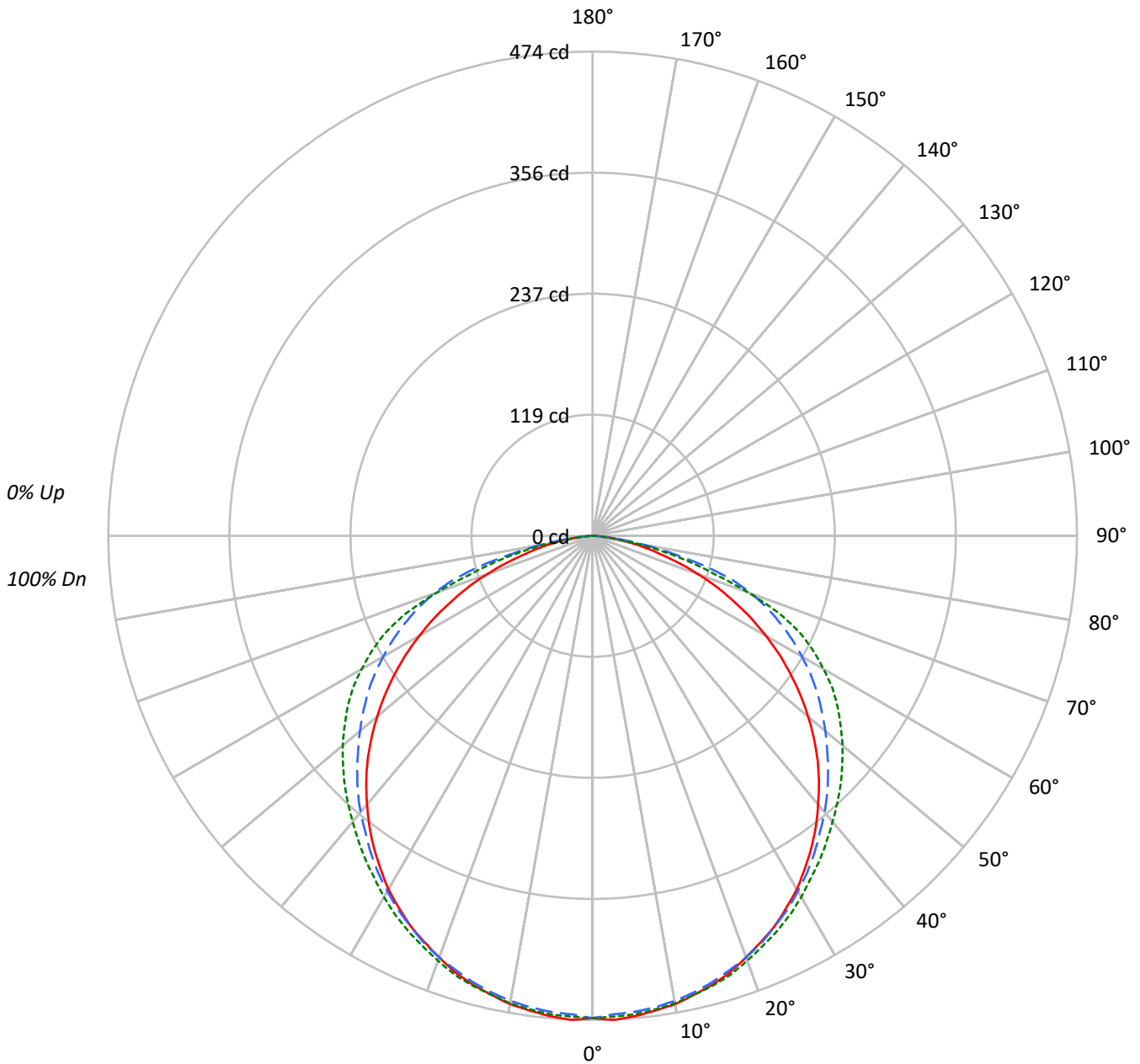
Lumens per Lamp: N/A  
Luminaire Lumens: 1410.0 lumens  
Efficiency: N/A  
Efficacy: 74.2 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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									
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	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84																			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	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	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32																			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29																			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26																			
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23																			

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

	0°	45°	90°
0°	1333	1333	1333
5°	1338	1325	1332
10°	1335	1325	1332
15°	1328	1322	1332
20°	1319	1319	1329
25°	1313	1313	1330
30°	1303	1310	1331
35°	1286	1305	1335
40°	1265	1302	1347
45°	1243	1301	1371
50°	1209	1305	1402
55°	1165	1322	1441
60°	1106	1336	1473
65°	1022	1353	1492
70°	909	1363	1335
75°	733	1225	1069
80°	572	860	697
85°	392	249	178



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.7	3.2
10°-20°	128.2	9.1
20°-30°	195.3	13.8
30°-40°	237.9	16.9
40°-50°	252.3	17.9
50°-60°	238.1	16.9
60°-70°	192.3	13.6
70°-80°	104.3	7.4
80°-90°	16.9	1.2
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°	368.2	26.1
0°-40°	606.1	43.0
0°-60°	1096.5	77.8
0°-90°	1410.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1410.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	472	472	472	472	472	
5°	472	471	468	471	470	45
15°	455	454	452	456	456	128
25°	422	421	422	426	427	194
35°	373	375	379	386	388	233
45°	312	316	326	338	343	240
55°	237	246	269	286	293	211
65°	153	172	202	219	223	152
75°	67	98	112	101	98	73
85°	12	13	8	7	6	16
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	472.2	472.2	472.2	472.2	472.2
2.5°	474.4	472.2	468.9	472.2	471.2
5°	472.2	471.2	467.8	471.2	470.1
7.5°	468.9	468.9	465.6	467.8	467.8
10°	465.6	464.6	462.4	465.6	464.6
12.5°	460.1	459.0	457.9	461.2	460.1
15°	454.6	453.5	452.4	455.8	455.8
17.5°	448.0	446.9	445.8	450.3	450.3
20°	439.2	439.2	439.2	443.6	442.6
22.5°	430.4	430.4	431.5	436.0	434.9
25°	421.7	420.6	421.7	426.0	427.0
27.5°	410.6	411.7	412.7	417.2	418.3
30°	399.7	400.7	401.8	407.3	408.4
32.5°	386.4	388.6	390.8	397.4	397.4
35°	373.2	375.4	378.7	386.4	387.5
37.5°	358.9	361.1	365.5	374.3	376.5
40°	343.4	346.8	353.4	362.1	365.5
42.5°	328.0	332.5	340.2	350.0	354.5
45°	311.5	315.9	325.9	338.0	343.4
47.5°	293.9	299.4	311.5	326.9	331.4
50°	275.3	282.9	297.2	313.7	319.2
52.5°	256.5	265.3	282.9	300.5	306.0
55°	236.7	246.5	268.6	286.2	292.8
57.5°	216.8	227.9	253.1	271.9	278.5
60°	195.9	209.1	236.7	255.4	261.0
62.5°	175.0	190.4	220.2	238.8	243.3
65°	153.0	171.8	202.5	219.1	223.4
67.5°	132.1	154.1	185.0	197.0	197.0
70°	110.1	134.3	165.2	168.4	161.8
72.5°	88.1	115.6	143.2	131.0	125.5
75°	67.2	98.0	112.3	101.3	98.0
77.5°	50.6	79.2	79.2	72.6	70.4
80°	35.2	60.6	52.9	46.3	42.9
82.5°	23.1	34.1	27.5	22.0	18.8
85°	12.1	13.2	7.7	6.6	5.5
87.5°	4.5	2.2	1.1	2.2	1.1
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)