

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: P732589

Luminaire Tested: **14FCZ2-25-RDP-B2750-W2D-CA08-4000K**

Issue Date: 1/5/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P732589  
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-CA08-4000K  
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT  
AND RDP LENS, WITH, CA08 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

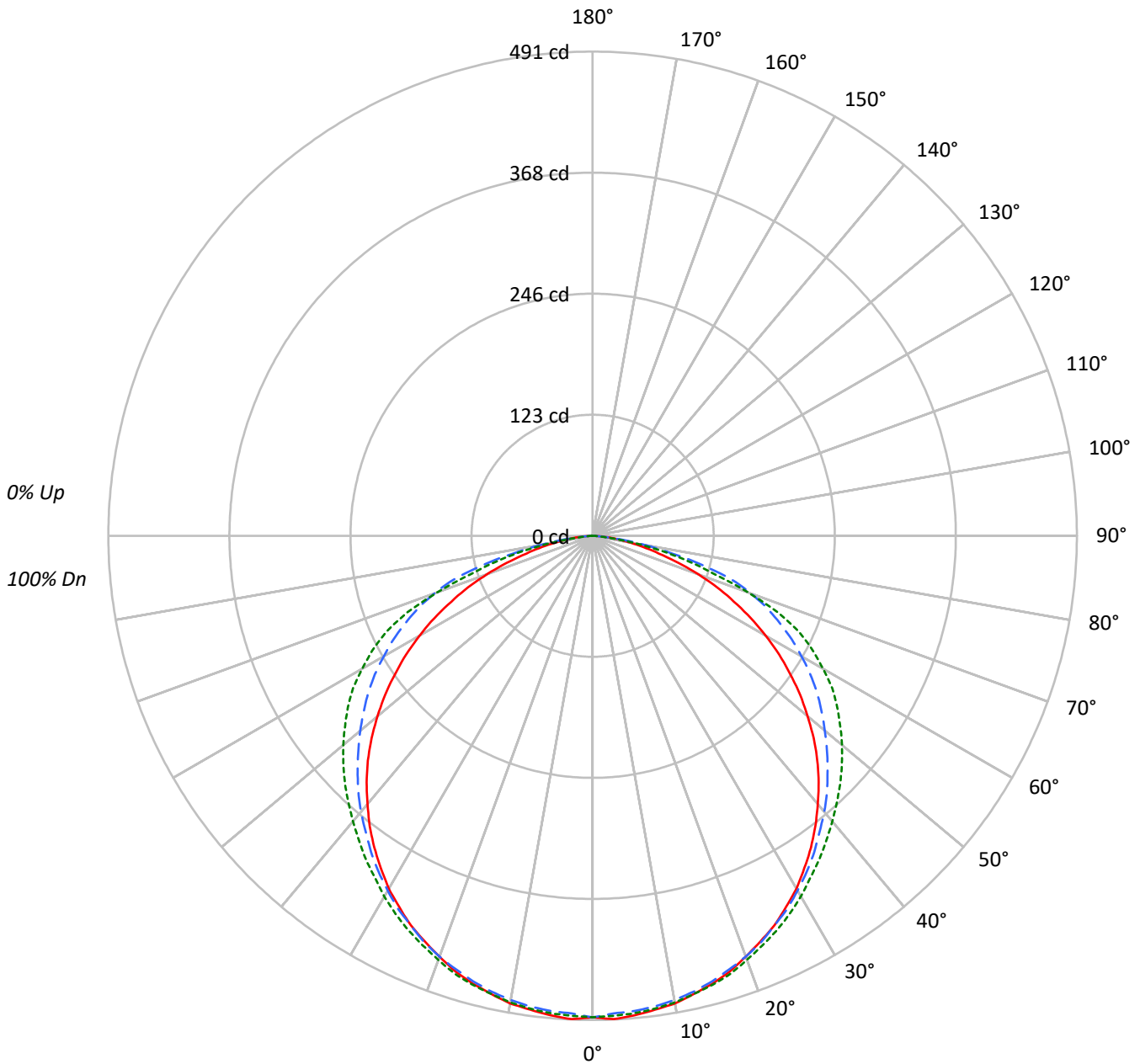
Lumens per Lamp: N/A  
Luminaire Lumens: 1458.0 lumens  
Efficiency: N/A  
Efficacy: 76.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	1378	1378	1378
5°	1384	1371	1377
10°	1380	1370	1377
15°	1373	1367	1377
20°	1364	1364	1375
25°	1358	1358	1375
30°	1347	1354	1376
35°	1330	1349	1381
40°	1308	1346	1393
45°	1286	1345	1418
50°	1250	1350	1450
55°	1204	1367	1490
60°	1144	1381	1523
65°	1057	1399	1543
70°	939	1410	1381
75°	758	1266	1105
80°	592	889	722
85°	408	259	185



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.2	3.2
10°-20°	132.6	9.1
20°-30°	201.9	13.8
30°-40°	245.9	16.9
40°-50°	260.9	17.9
50°-60°	246.2	16.9
60°-70°	198.8	13.6
70°-80°	107.9	7.4
80°-90°	17.5	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°	380.7	26.1
0°-40°	626.7	43.0
0°-60°	1133.9	77.8
0°-90°	1458.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1458.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	488	488	488	488	488	
5°	488	487	484	487	486	46
15°	470	469	468	471	471	133
25°	436	435	436	440	442	201
35°	386	388	392	400	401	241
45°	322	327	337	350	355	248
55°	245	255	278	296	303	219
65°	158	178	209	227	231	157
75°	70	101	116	105	101	76
85°	13	14	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°	488.3	488.3	488.3	488.3	488.3
2.5°	490.6	488.3	484.8	488.3	487.2
5°	488.3	487.2	483.7	487.2	486.1
7.5°	484.8	484.8	481.5	483.7	483.7
10°	481.5	480.4	478.1	481.5	480.4
12.5°	475.8	474.7	473.5	476.9	475.8
15°	470.0	468.9	467.8	471.3	471.3
17.5°	463.2	462.1	461.0	465.6	465.6
20°	454.1	454.1	454.1	458.7	457.6
22.5°	445.1	445.1	446.2	450.8	449.7
25°	436.0	434.9	436.0	440.5	441.6
27.5°	424.6	425.7	426.8	431.4	432.5
30°	413.3	414.4	415.5	421.2	422.3
32.5°	399.6	401.8	404.1	410.9	410.9
35°	385.9	388.1	391.6	399.6	400.7
37.5°	371.1	373.4	378.0	387.0	389.3
40°	355.1	358.6	365.4	374.5	378.0
42.5°	339.2	343.8	351.7	361.9	366.5
45°	322.2	326.6	336.9	349.5	355.1
47.5°	303.9	309.6	322.2	338.1	342.7
50°	284.6	292.6	307.4	324.4	330.1
52.5°	265.2	274.3	292.6	310.7	316.4
55°	244.7	254.9	277.8	295.9	302.8
57.5°	224.2	235.7	261.7	281.1	288.0
60°	202.6	216.3	244.7	264.1	269.8
62.5°	181.0	196.9	227.7	247.0	251.6
65°	158.2	177.6	209.4	226.6	231.0
67.5°	136.6	159.3	191.3	203.7	203.7
70°	113.8	138.8	170.8	174.1	167.3
72.5°	91.1	119.6	148.0	135.5	129.8
75°	69.5	101.3	116.1	104.8	101.3
77.5°	52.3	81.9	81.9	75.1	72.8
80°	36.4	62.6	54.7	47.9	44.4
82.5°	23.9	35.3	28.5	22.7	19.4
85°	12.6	13.7	8.0	6.8	5.7
87.5°	4.6	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)