

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: P732599

Luminaire Tested: **14FCZ2-25-RDP-B2750-W2D-CP187-4000K**

Issue Date: 1/5/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P732599  
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-CP187-4000K  
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT  
AND RDP LENS, WITH, CP187 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

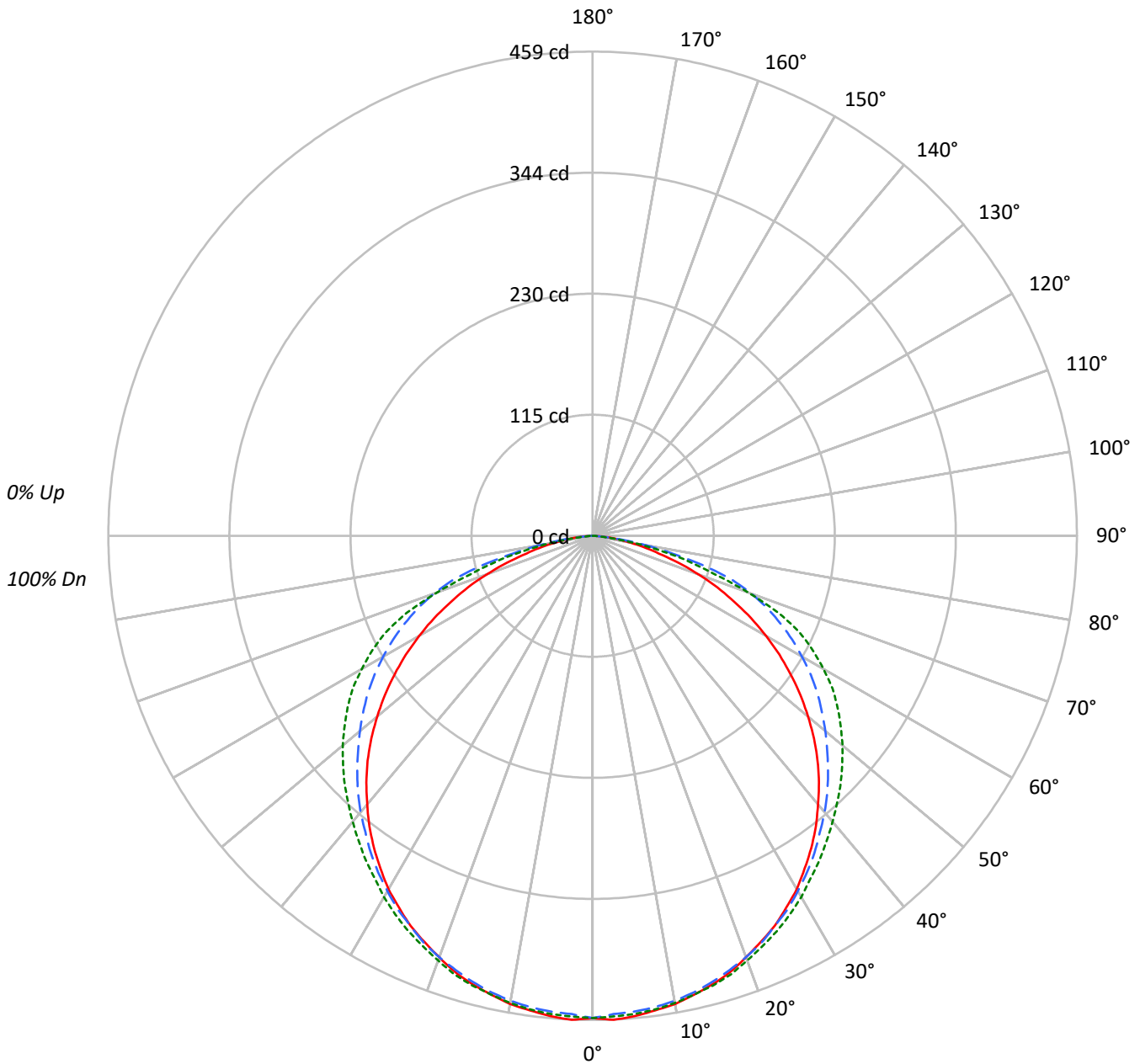
Lumens per Lamp: N/A  
Luminaire Lumens: 1365.0 lumens  
Efficiency: N/A  
Efficacy: 71.8 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	1291	1291	1291
5°	1295	1283	1290
10°	1292	1283	1289
15°	1286	1280	1289
20°	1277	1277	1287
25°	1271	1271	1288
30°	1261	1268	1289
35°	1245	1264	1293
40°	1225	1261	1304
45°	1204	1259	1327
50°	1170	1264	1357
55°	1127	1280	1395
60°	1071	1293	1426
65°	989	1310	1445
70°	880	1320	1292
75°	709	1185	1034
80°	554	832	675
85°	382	240	175



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.3	3.2
10°-20°	124.1	9.1
20°-30°	189.0	13.8
30°-40°	230.3	16.9
40°-50°	244.3	17.9
50°-60°	230.5	16.9
60°-70°	186.1	13.6
70°-80°	101.0	7.4
80°-90°	16.3	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°	356.5	26.1
0°-40°	586.7	43.0
0°-60°	1061.5	77.8
0°-90°	1365.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1365.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	457	457	457	457	457	
5°	457	456	453	456	455	43
15°	440	439	438	441	441	124
25°	408	407	408	412	413	188
35°	361	363	367	374	375	226
45°	302	306	316	327	332	232
55°	229	239	260	277	283	205
65°	148	166	196	212	216	147
75°	65	95	109	98	95	71
85°	12	13	7	6	5	15
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	457.2	457.2	457.2	457.2	457.2
2.5°	459.3	457.2	453.9	457.2	456.1
5°	457.2	456.1	452.9	456.1	455.1
7.5°	453.9	453.9	450.8	452.9	452.9
10°	450.8	449.7	447.6	450.8	449.7
12.5°	445.4	444.4	443.3	446.5	445.4
15°	440.1	439.0	438.0	441.2	441.2
17.5°	433.7	432.6	431.6	435.9	435.9
20°	425.2	425.2	425.2	429.5	428.4
22.5°	416.7	416.7	417.7	422.0	421.0
25°	408.2	407.1	408.2	412.4	413.4
27.5°	397.5	398.5	399.6	403.9	404.9
30°	386.9	387.9	389.0	394.3	395.4
32.5°	374.1	376.2	378.3	384.7	384.7
35°	361.3	363.4	366.7	374.1	375.1
37.5°	347.5	349.5	353.9	362.3	364.4
40°	332.4	335.7	342.1	350.6	353.9
42.5°	317.5	321.9	329.3	338.8	343.1
45°	301.6	305.8	315.5	327.2	332.4
47.5°	284.5	289.9	301.6	316.5	320.8
50°	266.5	273.9	287.8	303.7	309.1
52.5°	248.3	256.8	273.9	290.9	296.3
55°	229.1	238.6	260.1	277.0	283.4
57.5°	209.9	220.6	245.0	263.2	269.6
60°	189.7	202.5	229.1	247.3	252.6
62.5°	169.4	184.3	213.2	231.2	235.5
65°	148.1	166.3	196.1	212.1	216.3
67.5°	127.9	149.2	179.1	190.7	190.7
70°	106.6	130.0	159.9	163.0	156.6
72.5°	85.3	111.9	138.6	126.8	121.5
75°	65.0	94.8	108.7	98.1	94.8
77.5°	49.0	76.7	76.7	70.3	68.2
80°	34.1	58.6	51.2	44.8	41.5
82.5°	22.3	33.0	26.6	21.3	18.2
85°	11.8	12.8	7.4	6.4	5.4
87.5°	4.3	2.1	1.0	2.1	1.0
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)