

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: P732602

Luminaire Tested: **14FCZ2-25-RDP-B2750-W2D-CP250-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732602  
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-CP250-3000K  
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT  
AND RDP LENS, WITH, CP250 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

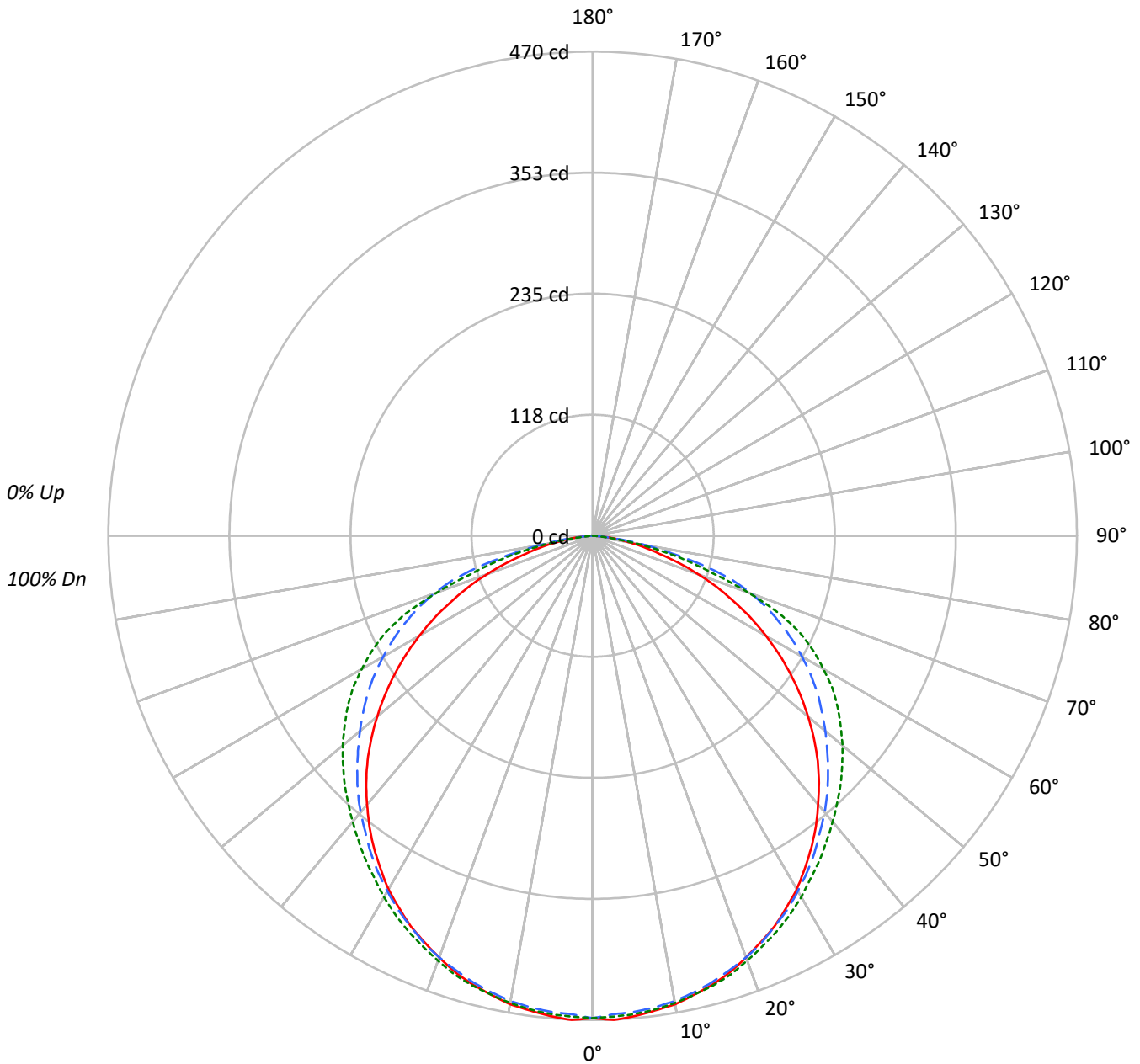
Lumens per Lamp: N/A  
Luminaire Lumens: 1398.0 lumens  
Efficiency: N/A  
Efficacy: 73.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	1322	1322	1322
5°	1327	1314	1321
10°	1323	1314	1320
15°	1317	1311	1321
20°	1308	1308	1318
25°	1302	1302	1319
30°	1292	1299	1320
35°	1275	1294	1324
40°	1255	1291	1335
45°	1233	1290	1359
50°	1198	1294	1390
55°	1155	1311	1429
60°	1096	1325	1460
65°	1013	1341	1479
70°	901	1351	1324
75°	726	1214	1059
80°	567	852	691
85°	389	246	178



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.3	3.2
10°-20°	127.1	9.1
20°-30°	193.6	13.8
30°-40°	235.8	16.9
40°-50°	250.2	17.9
50°-60°	236.1	16.9
60°-70°	190.6	13.6
70°-80°	103.4	7.4
80°-90°	16.7	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°	365.1	26.1
0°-40°	600.9	43.0
0°-60°	1087.2	77.8
0°-90°	1398.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1398.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	468	468	468	468	468	
5°	468	467	464	467	466	44
15°	451	450	449	452	452	127
25°	418	417	418	422	423	192
35°	370	372	376	383	384	231
45°	309	313	323	335	340	238
55°	235	244	266	284	290	210
65°	152	170	201	217	222	150
75°	67	97	111	100	97	73
85°	12	13	8	7	6	15
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	468.2	468.2	468.2	468.2	468.2
2.5°	470.4	468.2	464.9	468.2	467.2
5°	468.2	467.2	463.8	467.2	466.1
7.5°	464.9	464.9	461.7	463.8	463.8
10°	461.7	460.6	458.5	461.7	460.6
12.5°	456.2	455.1	454.0	457.3	456.2
15°	450.7	449.6	448.6	451.9	451.9
17.5°	444.1	443.1	442.0	446.4	446.4
20°	435.5	435.5	435.5	439.9	438.8
22.5°	426.8	426.8	427.8	432.2	431.2
25°	418.1	417.0	418.1	422.3	423.4
27.5°	407.1	408.2	409.2	413.6	414.7
30°	396.3	397.3	398.4	403.9	405.0
32.5°	383.1	385.3	387.4	394.0	394.0
35°	370.0	372.2	375.5	383.1	384.2
37.5°	355.9	358.0	362.4	371.1	373.2
40°	340.5	343.8	350.4	359.1	362.4
42.5°	325.2	329.6	337.3	347.0	351.4
45°	308.9	313.2	323.1	335.1	340.5
47.5°	291.4	296.9	308.9	324.1	328.6
50°	272.9	280.5	294.7	311.0	316.5
52.5°	254.3	263.0	280.5	297.9	303.4
55°	234.7	244.4	266.4	283.7	290.3
57.5°	215.0	226.0	251.0	269.6	276.1
60°	194.2	207.4	234.7	253.2	258.7
62.5°	173.5	188.8	218.3	236.8	241.2
65°	151.7	170.3	200.8	217.3	221.5
67.5°	131.0	152.8	183.4	195.3	195.3
70°	109.2	133.1	163.7	167.0	160.4
72.5°	87.4	114.6	141.9	129.9	124.4
75°	66.6	97.1	111.3	100.5	97.1
77.5°	50.2	78.5	78.5	72.0	69.8
80°	34.9	60.1	52.4	45.9	42.5
82.5°	22.9	33.8	27.3	21.8	18.6
85°	12.0	13.1	7.6	6.6	5.5
87.5°	4.4	2.1	1.1	2.1	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)