

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: P732478

Luminaire Tested: **14FCZ2-20-RDP-B2750-W2D-CP250-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732478  
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: 14FCZ2-20-RDP-B2750-W2D-CP250-3500K  
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT  
AND RDP LENS, WITH, CP250 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

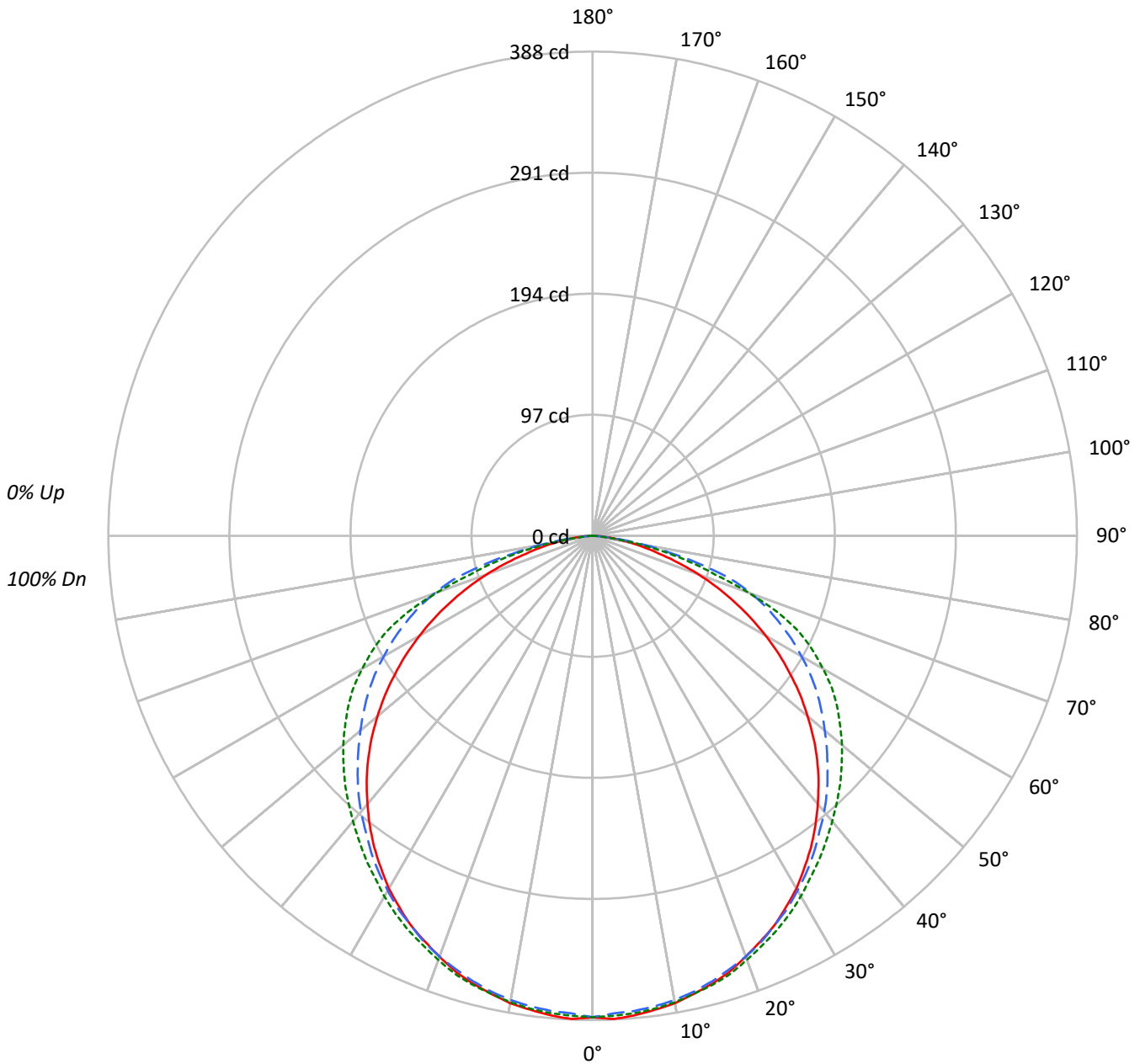
Lumens per Lamp: N/A  
Luminaire Lumens: 1152.0 lumens  
Efficiency: N/A  
Efficacy: 72.0 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 16  
Input Voltage (V): NR  
Input Current (Ain): 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°	1089	1089	1089
5°	1093	1083	1088
10°	1090	1083	1088
15°	1085	1080	1088
20°	1078	1078	1086
25°	1073	1073	1087
30°	1064	1070	1088
35°	1051	1066	1091
40°	1034	1064	1100
45°	1016	1063	1120
50°	988	1067	1145
55°	952	1080	1177
60°	904	1092	1204
65°	835	1105	1220
70°	743	1113	1091
75°	599	1000	872
80°	468	702	571
85°	321	204	146



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.5	3.2
10°-20°	104.8	9.1
20°-30°	159.5	13.8
30°-40°	194.3	16.9
40°-50°	206.2	17.9
50°-60°	194.6	16.9
60°-70°	157.1	13.6
70°-80°	85.2	7.4
80°-90°	13.8	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°	300.8	26.1
0°-40°	495.2	43.0
0°-60°	895.9	77.8
0°-90°	1152.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1152.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	386	386	386	386	386	
5°	386	385	382	385	384	37
15°	371	370	370	372	372	105
25°	344	344	344	348	349	159
35°	305	307	309	316	317	191
45°	254	258	266	276	281	196
55°	193	201	220	234	239	173
65°	125	140	166	179	183	124
75°	55	80	92	83	80	60
85°	10	11	6	5	4	13
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	385.8	385.8	385.8	385.8	385.8
2.5°	387.6	385.8	383.1	385.8	385.0
5°	385.8	385.0	382.2	385.0	384.1
7.5°	383.1	383.1	380.4	382.2	382.2
10°	380.4	379.6	377.8	380.4	379.6
12.5°	375.9	375.0	374.2	376.8	375.9
15°	371.4	370.5	369.6	372.4	372.4
17.5°	366.0	365.1	364.2	367.9	367.9
20°	358.8	358.8	358.8	362.5	361.6
22.5°	351.7	351.7	352.5	356.2	355.3
25°	344.5	343.6	344.5	348.0	348.9
27.5°	335.5	336.3	337.2	340.9	341.7
30°	326.5	327.4	328.3	332.8	333.7
32.5°	315.7	317.5	319.3	324.7	324.7
35°	304.9	306.7	309.4	315.7	316.6
37.5°	293.2	295.0	298.6	305.8	307.6
40°	280.6	283.3	288.7	295.9	298.6
42.5°	268.0	271.6	277.9	286.0	289.6
45°	254.5	258.1	266.2	276.1	280.6
47.5°	240.1	244.6	254.5	267.1	270.7
50°	224.9	231.2	242.9	256.3	260.8
52.5°	209.6	216.7	231.2	245.5	250.0
55°	193.4	201.4	219.5	233.8	239.2
57.5°	177.2	186.2	206.8	222.1	227.5
60°	160.1	170.9	193.4	208.7	213.2
62.5°	143.0	155.5	179.9	195.1	198.8
65°	125.0	140.3	165.5	179.0	182.6
67.5°	107.9	125.9	151.1	160.9	160.9
70°	90.0	109.7	134.9	137.6	132.2
72.5°	72.0	94.5	117.0	107.0	102.5
75°	54.9	80.0	91.7	82.8	80.0
77.5°	41.3	64.7	64.7	59.3	57.5
80°	28.8	49.5	43.2	37.8	35.1
82.5°	18.9	27.9	22.5	18.0	15.3
85°	9.9	10.8	6.3	5.4	4.5
87.5°	3.6	1.8	0.9	1.8	0.9
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)