

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: P732477

Luminaire Tested: **14FCZ2-20-RDP-B2750-W2D-CP250-3000K**

Issue Date: 1/5/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P732477  
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-CP250-3000K  
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT  
AND RDP LENS, WITH, CP250 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

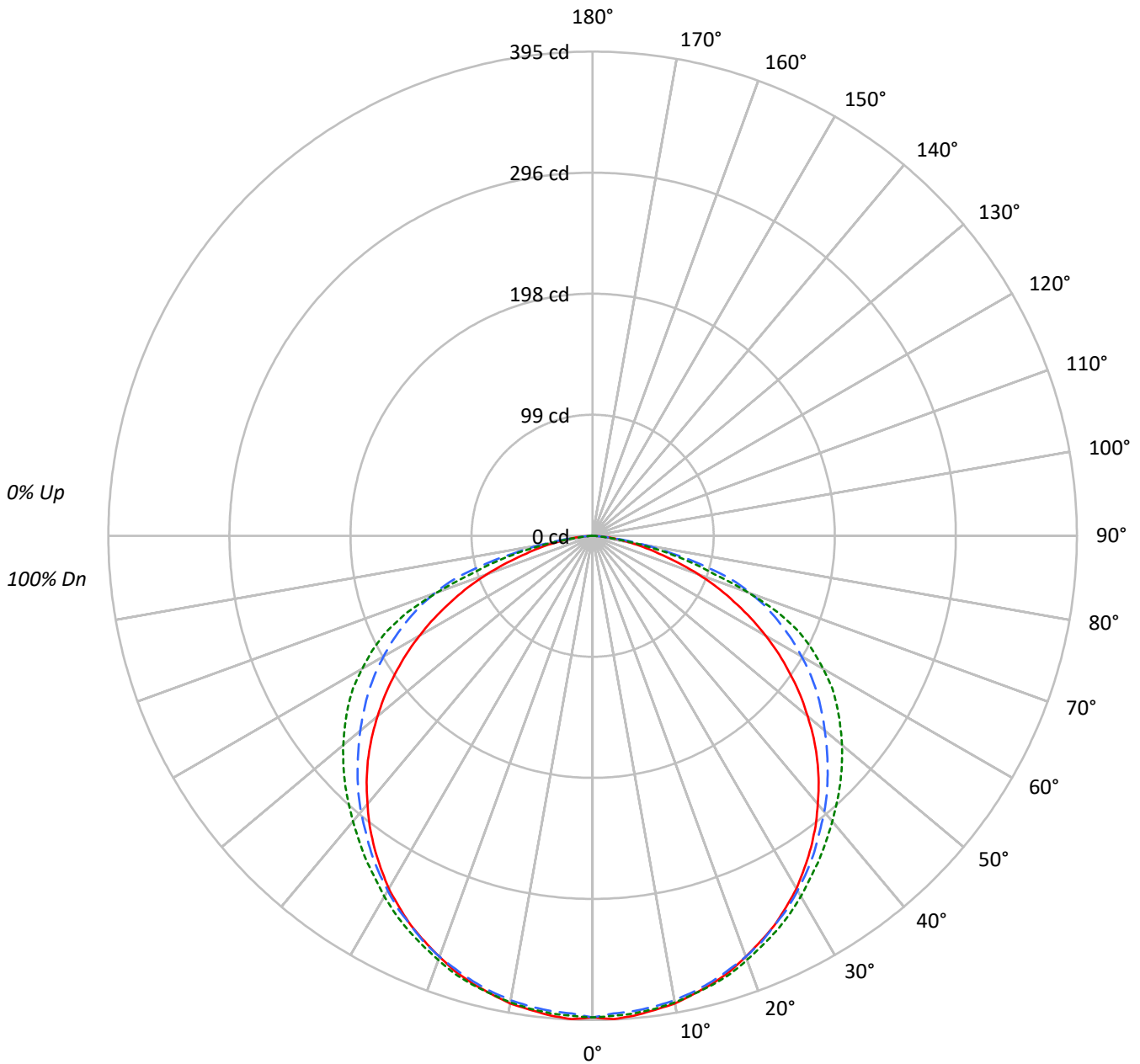
Lumens per Lamp: N/A  
Luminaire Lumens: 1173.1 lumens  
Efficiency: N/A  
Efficacy: 73.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 16  
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°	1109	1109	1109
5°	1113	1103	1108
10°	1110	1103	1108
15°	1105	1100	1108
20°	1098	1098	1106
25°	1093	1093	1107
30°	1084	1090	1108
35°	1070	1086	1111
40°	1053	1083	1121
45°	1035	1082	1140
50°	1006	1086	1166
55°	969	1100	1199
60°	920	1112	1226
65°	850	1125	1242
70°	756	1134	1111
75°	610	1019	889
80°	476	715	580
85°	327	207	149



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.2	3.2
10°-20°	106.7	9.1
20°-30°	162.5	13.8
30°-40°	197.9	16.9
40°-50°	209.9	17.9
50°-60°	198.1	16.9
60°-70°	160.0	13.6
70°-80°	86.8	7.4
80°-90°	14.0	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°	306.3	26.1
0°-40°	504.2	43.0
0°-60°	912.3	77.8
0°-90°	1173.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1173.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	393	393	393	393	393	
5°	393	392	389	392	391	37
15°	378	377	376	379	379	107
25°	351	350	351	354	355	161
35°	310	312	315	322	322	194
45°	259	263	271	281	286	200
55°	197	205	224	238	244	176
65°	127	143	168	182	186	126
75°	56	82	93	84	82	61
85°	10	11	6	6	5	13
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	392.9	392.9	392.9	392.9	392.9
2.5°	394.7	392.9	390.1	392.9	392.0
5°	392.9	392.0	389.2	392.0	391.1
7.5°	390.1	390.1	387.4	389.2	389.2
10°	387.4	386.5	384.7	387.4	386.5
12.5°	382.8	381.9	381.0	383.7	382.8
15°	378.2	377.3	376.4	379.2	379.2
17.5°	372.7	371.8	370.9	374.6	374.6
20°	365.4	365.4	365.4	369.1	368.2
22.5°	358.1	358.1	359.0	362.7	361.8
25°	350.8	349.9	350.8	354.4	355.3
27.5°	341.6	342.5	343.4	347.1	348.0
30°	332.5	333.4	334.3	338.9	339.8
32.5°	321.5	323.3	325.1	330.6	330.6
35°	310.5	312.3	315.1	321.5	322.4
37.5°	298.6	300.4	304.1	311.4	313.2
40°	285.7	288.5	294.0	301.3	304.1
42.5°	272.9	276.6	283.0	291.2	294.9
45°	259.2	262.8	271.1	281.2	285.7
47.5°	244.5	249.1	259.2	272.0	275.7
50°	229.0	235.4	247.3	261.0	265.6
52.5°	213.4	220.7	235.4	250.0	254.6
55°	196.9	205.1	223.5	238.1	243.6
57.5°	180.4	189.6	210.6	226.2	231.7
60°	163.0	174.0	196.9	212.5	217.1
62.5°	145.6	158.4	183.2	198.7	202.4
65°	127.3	142.9	168.5	182.3	185.9
67.5°	109.9	128.2	153.9	163.9	163.9
70°	91.6	111.7	137.4	140.1	134.6
72.5°	73.3	96.2	119.1	109.0	104.4
75°	55.9	81.5	93.4	84.3	81.5
77.5°	42.1	65.9	65.9	60.4	58.6
80°	29.3	50.4	44.0	38.5	35.7
82.5°	19.2	28.4	22.9	18.3	15.6
85°	10.1	11.0	6.4	5.5	4.6
87.5°	3.7	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)