

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: P732480

Luminaire Tested: **14FCZ2-20-RDP-B2750-W2D-CP250-5000K**

Issue Date: 1/5/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P732480  
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-CP250-5000K  
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT  
AND RDP LENS, WITH, CP250 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

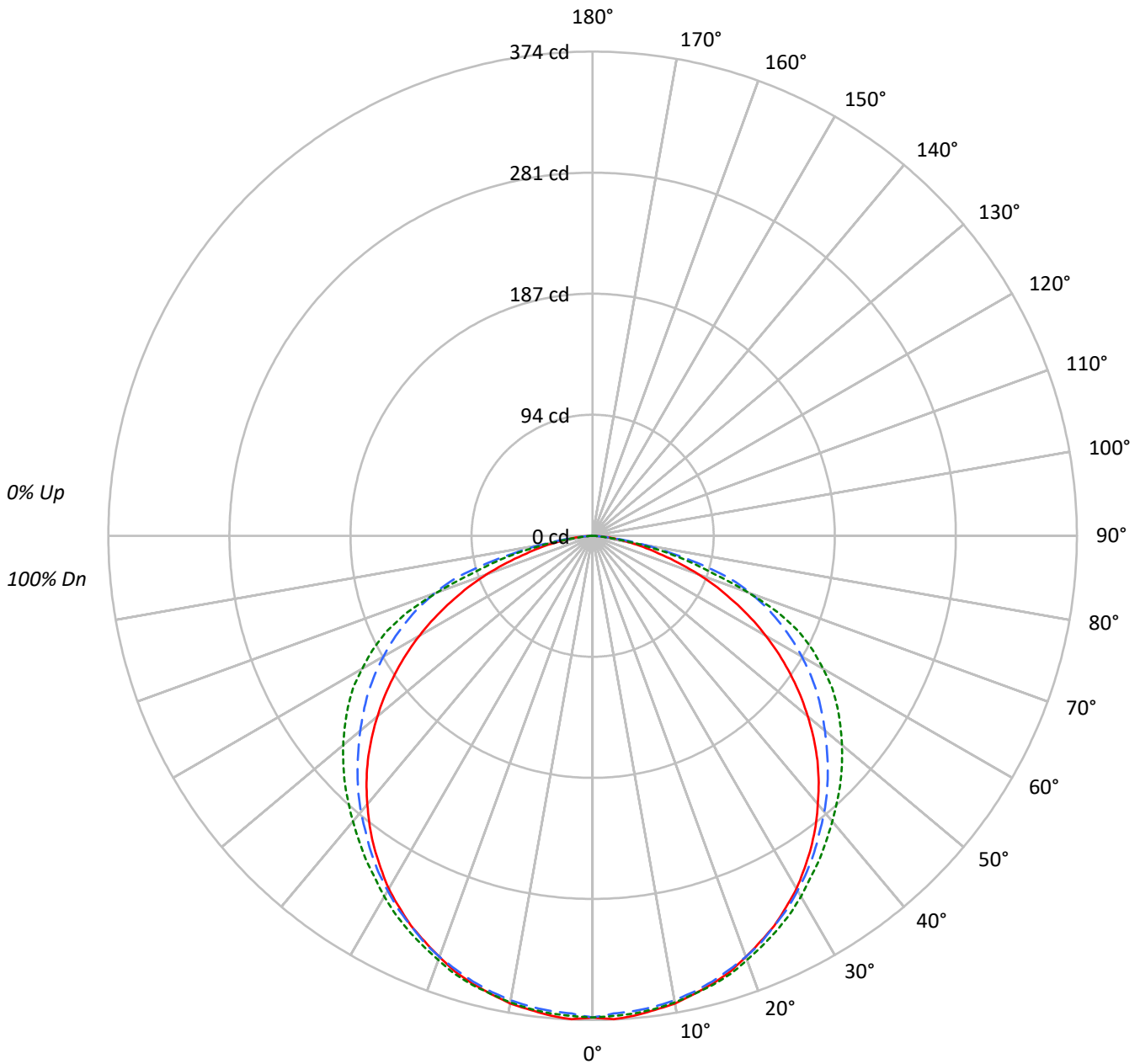
Lumens per Lamp: N/A  
Luminaire Lumens: 1111.0 lumens  
Efficiency: N/A  
Efficacy: 69.4 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	1050	1050	1050
5°	1054	1044	1050
10°	1052	1044	1049
15°	1047	1042	1049
20°	1040	1040	1047
25°	1035	1035	1048
30°	1026	1032	1049
35°	1013	1028	1052
40°	997	1026	1061
45°	980	1025	1080
50°	952	1028	1104
55°	918	1042	1135
60°	872	1053	1161
65°	805	1066	1176
70°	716	1074	1052
75°	577	965	842
80°	450	678	549
85°	311	198	143



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.2	3.2
10°-20°	101.0	9.1
20°-30°	153.9	13.8
30°-40°	187.4	16.9
40°-50°	198.8	17.9
50°-60°	187.6	16.9
60°-70°	151.5	13.6
70°-80°	82.2	7.4
80°-90°	13.3	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°	290.1	26.1
0°-40°	477.5	43.0
0°-60°	864.0	77.8
0°-90°	1111.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1111.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	372	372	372	372	372	
5°	372	371	369	371	370	35
15°	358	357	356	359	359	101
25°	332	331	332	336	336	153
35°	294	296	298	304	305	184
45°	246	249	257	266	271	189
55°	186	194	212	226	231	167
65°	121	135	160	173	176	119
75°	53	77	88	80	77	58
85°	10	10	6	5	4	12
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	372.1	372.1	372.1	372.1	372.1
2.5°	373.8	372.1	369.4	372.1	371.3
5°	372.1	371.3	368.6	371.3	370.4
7.5°	369.4	369.4	366.9	368.6	368.6
10°	366.9	366.0	364.3	366.9	366.0
12.5°	362.5	361.7	360.8	363.4	362.5
15°	358.2	357.3	356.5	359.1	359.1
17.5°	353.0	352.1	351.3	354.8	354.8
20°	346.1	346.1	346.1	349.6	348.7
22.5°	339.1	339.1	340.0	343.5	342.7
25°	332.2	331.4	332.2	335.6	336.5
27.5°	323.5	324.4	325.2	328.7	329.6
30°	314.9	315.8	316.6	321.0	321.8
32.5°	304.5	306.2	307.9	313.1	313.1
35°	294.1	295.8	298.4	304.5	305.3
37.5°	282.8	284.5	288.0	294.9	296.6
40°	270.6	273.2	278.4	285.4	288.0
42.5°	258.5	262.0	268.0	275.8	279.3
45°	245.5	248.9	256.8	266.3	270.6
47.5°	231.6	235.9	245.5	257.6	261.1
50°	216.9	222.9	234.2	247.2	251.5
52.5°	202.1	209.0	222.9	236.8	241.1
55°	186.5	194.2	211.7	225.5	230.7
57.5°	170.8	179.6	199.4	214.2	219.4
60°	154.4	164.8	186.5	201.3	205.6
62.5°	137.9	150.0	173.5	188.2	191.7
65°	120.6	135.3	159.6	172.7	176.1
67.5°	104.1	121.4	145.8	155.2	155.2
70°	86.8	105.8	130.1	132.7	127.5
72.5°	69.4	91.1	112.8	103.2	98.9
75°	52.9	77.2	88.5	79.8	77.2
77.5°	39.9	62.4	62.4	57.2	55.5
80°	27.7	47.7	41.7	36.5	33.8
82.5°	18.2	26.9	21.7	17.3	14.8
85°	9.6	10.4	6.1	5.2	4.4
87.5°	3.5	1.7	0.9	1.7	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)