

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: P733968

Luminaire Tested: **24FCZ2-30-RDP-B2750-W2D-CA125-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P733968  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P274775)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 24FCZ2-30-RDP-B2750-W2D-CA125-3500K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT  
AND RDP LENS, WITH, CA125 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

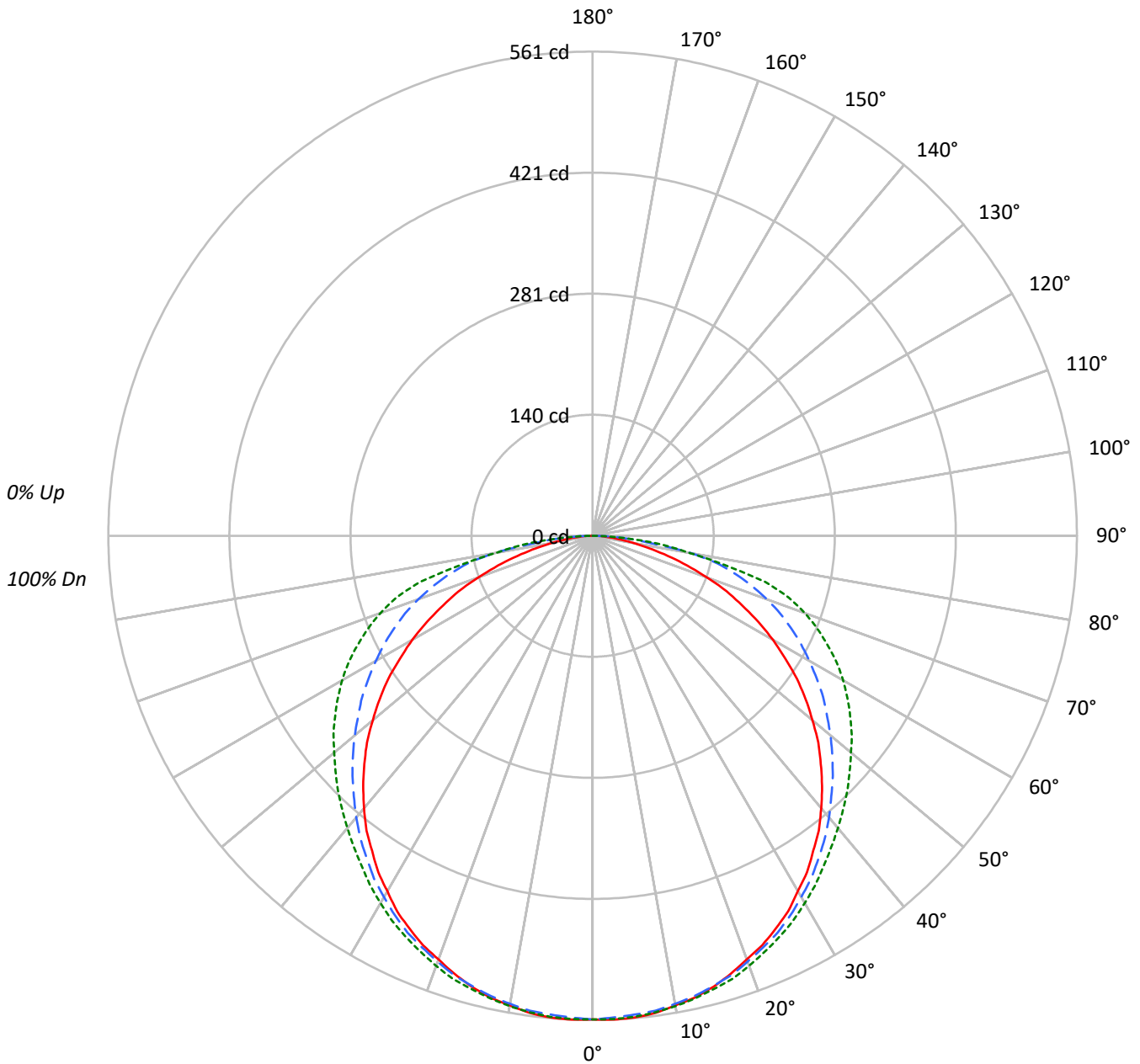
Lumens per Lamp: N/A  
Luminaire Lumens: 1782.0 lumens  
Efficiency: N/A  
Efficacy: 77.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 23  
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	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82																			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67																			
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47																			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40																			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35																			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27																			
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24																			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	791	791	791
5°	794	789	793
10°	792	789	793
15°	790	789	794
20°	784	789	796
25°	782	790	798
30°	775	788	801
35°	768	786	804
40°	759	785	814
45°	746	785	833
50°	730	790	858
55°	711	802	896
60°	681	818	946
65°	638	847	1004
70°	580	886	1080
75°	492	935	1128
80°	388	940	912
85°	287	716	802



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.2	3.0
10°-20°	153.0	8.6
20°-30°	234.0	13.1
30°-40°	286.0	16.0
40°-50°	304.8	17.1
50°-60°	291.5	16.4
60°-70°	246.9	13.9
70°-80°	165.9	9.3
80°-90°	46.8	2.6
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°	440.1	24.7
0°-40°	726.1	40.7
0°-60°	1322.4	74.2
0°-90°	1782.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1782.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	560	560	560	560	560	
5°	560	560	557	560	560	53
15°	541	541	540	544	544	153
25°	502	504	507	512	513	231
35°	446	449	456	465	467	279
45°	374	380	393	410	417	288
55°	289	300	326	352	364	257
65°	191	210	254	287	301	190
75°	90	123	172	201	207	97
85°	18	36	44	48	50	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	560.4	560.4	560.4	560.4	560.4
2.5°	561.2	561.2	558.6	560.4	560.4
5°	560.4	559.5	556.9	559.5	559.5
7.5°	557.7	556.9	555.1	557.7	556.9
10°	552.4	552.4	550.7	553.4	553.4
12.5°	548.0	547.2	546.2	549.7	548.9
15°	541.0	541.0	540.0	544.5	543.6
17.5°	532.2	533.0	533.9	537.4	538.3
20°	522.3	524.2	525.0	530.3	530.3
22.5°	513.5	514.5	516.2	521.5	521.5
25°	502.1	503.8	507.3	511.8	512.6
27.5°	490.6	491.4	495.9	502.1	502.9
30°	475.6	478.2	483.4	490.6	491.4
32.5°	462.2	464.9	471.1	478.2	479.9
35°	445.5	449.0	456.1	464.9	466.7
37.5°	430.5	433.1	442.0	451.7	454.3
40°	411.9	417.2	426.0	437.5	442.0
42.5°	393.4	398.6	409.3	424.3	429.6
45°	373.9	380.1	393.4	410.1	417.2
47.5°	354.5	361.5	376.5	395.9	403.9
50°	332.3	341.2	359.7	381.9	390.7
52.5°	311.1	321.8	342.1	366.8	378.4
55°	289.0	299.6	326.1	351.8	364.2
57.5°	264.3	278.4	307.6	336.8	350.0
60°	241.3	254.5	289.9	321.8	335.0
62.5°	216.6	234.3	272.2	305.8	319.1
65°	190.9	210.4	253.7	287.2	300.6
67.5°	168.0	189.2	235.1	268.7	282.0
70°	140.6	167.0	214.8	248.3	261.7
72.5°	114.9	144.1	193.5	226.3	238.6
75°	90.2	122.9	171.5	200.7	206.9
77.5°	67.1	101.7	148.5	160.8	156.5
80°	47.7	81.3	115.7	109.6	112.2
82.5°	30.9	61.9	71.6	81.3	84.0
85°	17.7	36.2	44.2	47.7	49.5
87.5°	8.0	13.2	17.7	17.7	16.8
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)