

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: P733962

Luminaire Tested: **24FCZ2-30-RDP-B2750-W2D-CA08-3000K**

Issue Date: 1/5/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P733962  
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-CA08-3000K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT  
AND RDP LENS, WITH, CA08 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

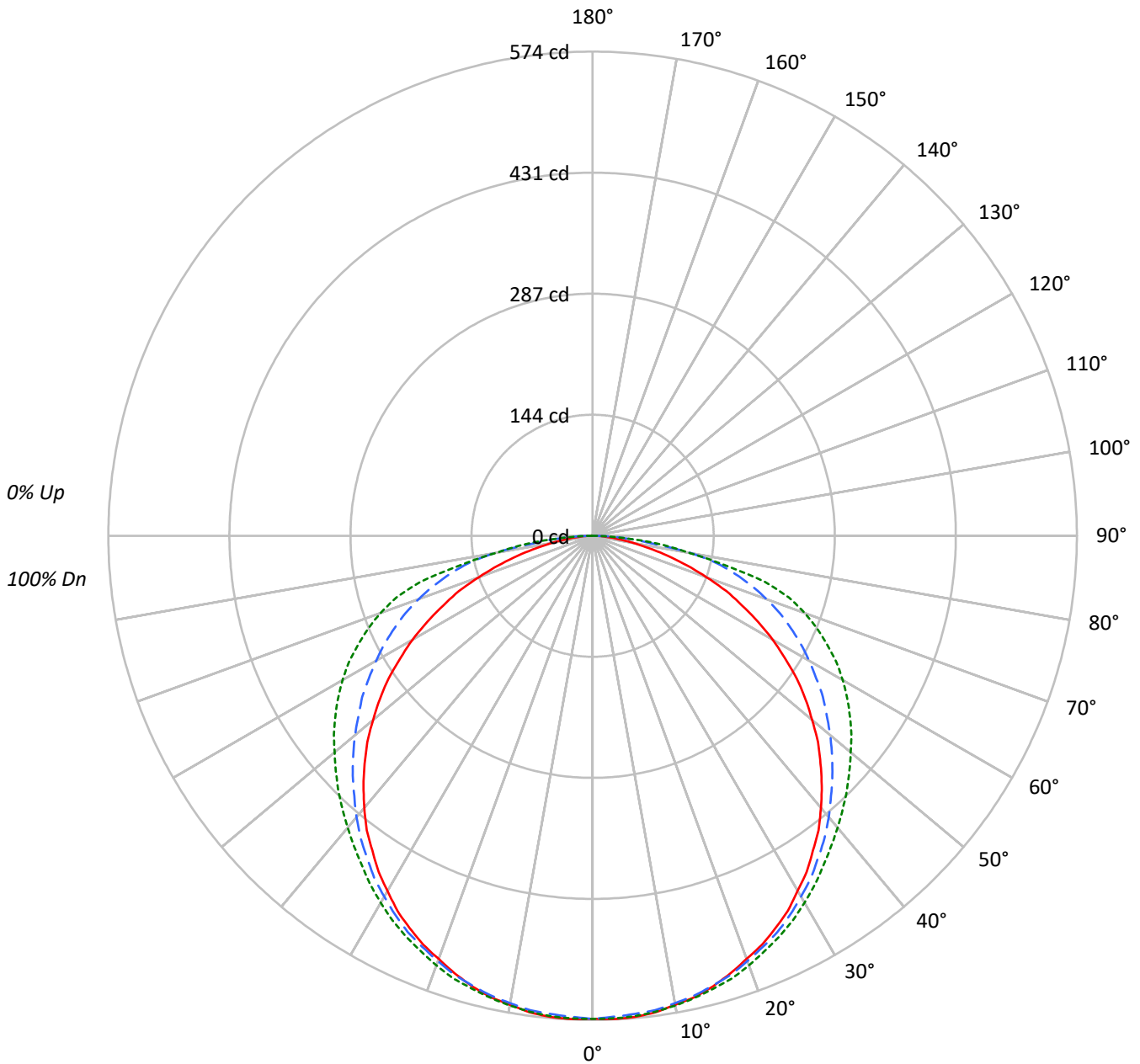
Lumens per Lamp: N/A  
Luminaire Lumens: 1821.0 lumens  
Efficiency: N/A  
Efficacy: 79.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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									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°	808	808	808
5°	811	806	810
10°	809	806	810
15°	808	806	812
20°	802	806	814
25°	799	807	816
30°	792	805	818
35°	784	803	822
40°	775	802	832
45°	763	802	851
50°	746	807	877
55°	727	820	916
60°	696	836	966
65°	652	866	1026
70°	593	906	1103
75°	502	955	1153
80°	397	961	932
85°	293	732	818



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.3	3.0
10°-20°	156.3	8.6
20°-30°	239.1	13.1
30°-40°	292.3	16.0
40°-50°	311.5	17.1
50°-60°	297.8	16.4
60°-70°	252.3	13.9
70°-80°	169.6	9.3
80°-90°	47.8	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°	449.7	24.7
0°-40°	742.0	40.7
0°-60°	1351.3	74.2
0°-90°	1821.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1821.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	573	573	573	573	573	
5°	573	572	569	572	572	54
15°	553	553	552	556	555	156
25°	513	515	518	523	524	236
35°	455	459	466	475	477	285
45°	382	388	402	419	426	295
55°	295	306	333	360	372	263
65°	195	215	259	294	307	194
75°	92	126	175	205	211	99
85°	18	37	45	49	50	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	572.7	572.7	572.7	572.7	572.7
2.5°	573.5	573.5	570.8	572.7	572.7
5°	572.7	571.8	569.1	571.8	571.8
7.5°	569.9	569.1	567.2	569.9	569.1
10°	564.5	564.5	562.7	565.5	565.5
12.5°	560.0	559.2	558.2	561.8	560.9
15°	552.8	552.8	551.9	556.4	555.4
17.5°	543.8	544.7	545.5	549.1	550.1
20°	533.8	535.6	536.5	541.9	541.9
22.5°	524.7	525.7	527.5	532.9	532.9
25°	513.1	514.8	518.4	523.0	523.9
27.5°	501.3	502.2	506.8	513.1	514.0
30°	486.0	488.7	494.0	501.3	502.2
32.5°	472.4	475.1	481.4	488.7	490.4
35°	455.3	458.8	466.0	475.1	476.9
37.5°	439.9	442.6	451.7	461.6	464.3
40°	420.9	426.3	435.3	447.1	451.7
42.5°	402.0	407.3	418.2	433.6	439.0
45°	382.1	388.4	402.0	419.1	426.3
47.5°	362.2	369.4	384.8	404.6	412.8
50°	339.6	348.6	367.6	390.2	399.3
52.5°	317.9	328.8	349.6	374.9	386.6
55°	295.4	306.2	333.3	359.5	372.2
57.5°	270.1	284.5	314.3	344.2	357.7
60°	246.6	260.1	296.2	328.8	342.3
62.5°	221.3	239.4	278.2	312.5	326.1
65°	195.1	215.0	259.2	293.5	307.1
67.5°	171.6	193.3	240.3	274.6	288.2
70°	143.7	170.7	219.5	253.8	267.4
72.5°	117.4	147.2	197.8	231.2	243.9
75°	92.1	125.6	175.2	205.1	211.4
77.5°	68.6	103.9	151.7	164.3	159.9
80°	48.8	83.1	118.3	112.0	114.7
82.5°	31.6	63.3	73.2	83.1	85.8
85°	18.1	37.0	45.2	48.8	50.5
87.5°	8.2	13.5	18.1	18.1	17.2
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)