

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: P733938

Luminaire Tested: **24FCZ2-30-HRP-B2750-W2D-CA08-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P733938  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P295011)  
Test Lab: INNOVATIONS CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 24FCZ2-30-HRP-B2750-W2D-CA08-3500K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT  
AND HRP LENS, WITH, CA08 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

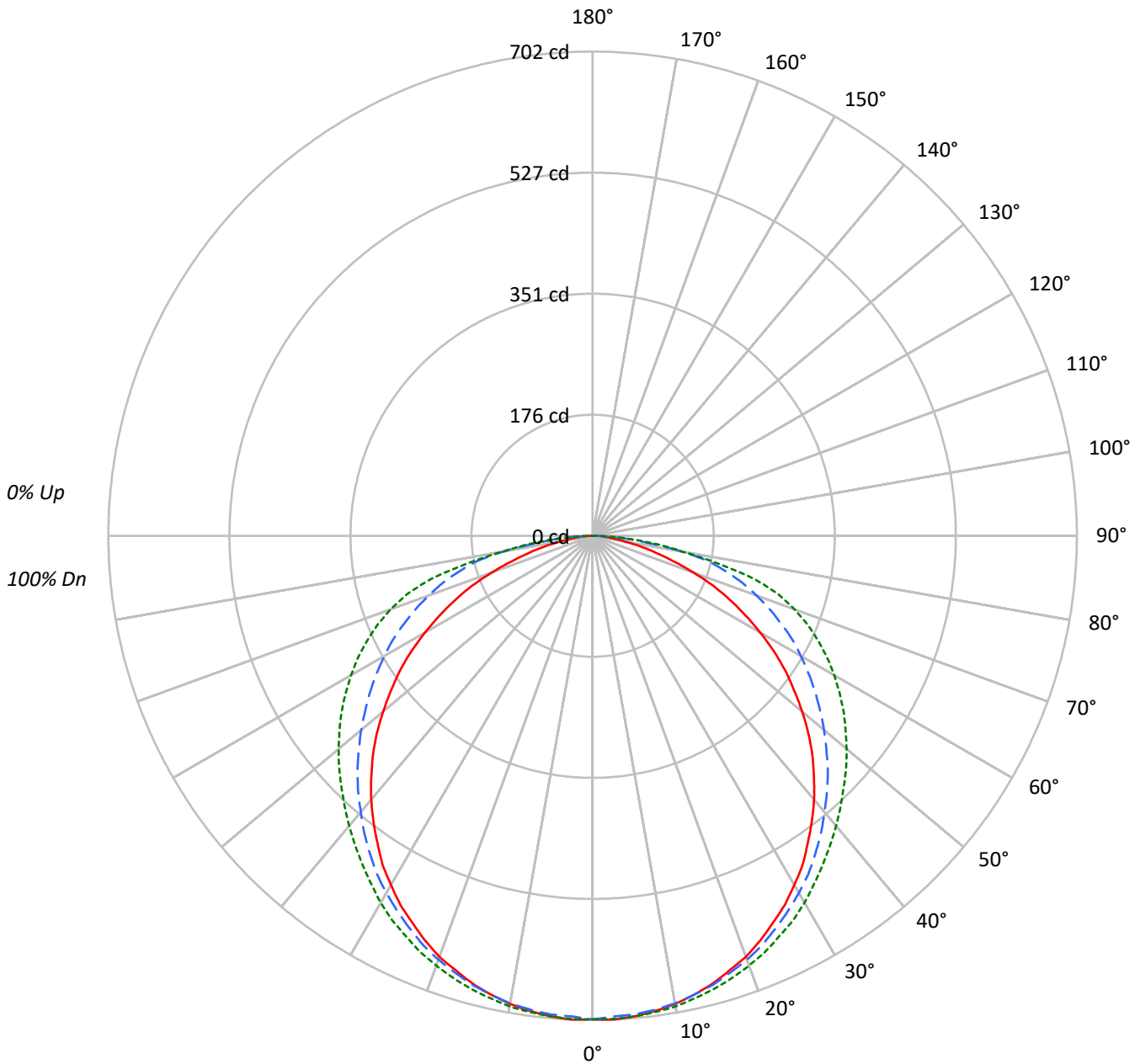
Lumens per Lamp: N/A  
Luminaire Lumens: 2161.0 lumens  
Efficiency: N/A  
Efficacy: 94.0 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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	101	96	93	96	93	90	92	90	87	89	86	84	82																			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56																			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	42	38	36																			
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28																			
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25																			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23																			

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

	0°	45°	90°
0°	990	990	990
5°	991	987	991
10°	988	987	993
15°	982	985	994
20°	976	982	996
25°	964	978	997
30°	953	975	1001
35°	937	970	1002
40°	920	963	1012
45°	899	962	1028
50°	870	961	1055
55°	839	968	1093
60°	792	983	1141
65°	731	1006	1205
70°	638	1042	1285
75°	518	1095	1327
80°	382	1074	1074
85°	293	792	894



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.4	3.1
10°-20°	190.7	8.8
20°-30°	290.4	13.4
30°-40°	352.6	16.3
40°-50°	372.5	17.2
50°-60°	351.5	16.3
60°-70°	292.2	13.5
70°-80°	192.3	8.9
80°-90°	52.4	2.4
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°	547.5	25.3
0°-40°	900.1	41.7
0°-60°	1624.0	75.2
0°-90°	2161.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2161.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	701	701	701	701	701	
5°	699	699	697	699	699	66
15°	672	673	674	680	680	190
25°	619	622	628	639	640	285
35°	544	550	563	577	582	340
45°	450	460	482	506	515	347
55°	341	356	394	431	444	304
65°	219	244	301	346	361	216
75°	95	138	201	238	243	102
85°	18	40	49	54	55	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	701.2	701.2	701.2	701.2	701.2
2.5°	702.1	701.2	697.5	701.2	701.2
5°	699.4	699.4	696.6	699.4	699.4
7.5°	694.8	694.8	693.0	696.6	696.6
10°	689.4	689.4	688.4	693.0	693.0
12.5°	681.3	682.1	681.3	686.6	686.6
15°	672.2	673.1	674.0	680.4	680.4
17.5°	660.4	662.2	664.0	671.3	672.2
20°	649.6	650.5	654.1	662.2	663.1
22.5°	635.0	637.8	642.3	650.5	653.2
25°	618.8	622.4	627.9	638.7	640.5
27.5°	603.4	606.2	613.3	625.1	628.8
30°	584.5	588.9	598.0	609.8	614.2
32.5°	566.3	570.8	581.7	594.4	598.0
35°	543.7	550.0	562.8	577.2	581.7
37.5°	522.0	528.3	543.7	560.0	565.5
40°	499.3	506.6	522.9	542.0	549.1
42.5°	474.9	484.9	503.0	523.8	532.0
45°	450.5	459.6	482.2	505.7	514.8
47.5°	424.3	435.1	459.6	487.6	498.4
50°	396.3	409.8	437.9	468.7	480.4
52.5°	368.2	383.5	415.2	449.7	462.3
55°	341.0	355.6	393.5	430.6	444.2
57.5°	311.3	329.3	370.9	410.7	424.3
60°	280.5	300.4	348.3	389.9	404.3
62.5°	249.7	272.3	326.6	368.2	383.5
65°	219.0	244.2	301.3	345.6	360.9
67.5°	189.1	217.2	277.7	322.1	337.4
70°	154.7	190.0	252.4	295.8	311.3
72.5°	123.1	163.8	228.0	268.7	282.3
75°	95.0	138.4	200.8	238.0	243.3
77.5°	69.7	113.1	172.7	185.5	186.4
80°	47.0	90.5	132.1	130.2	132.1
82.5°	30.8	67.8	83.2	93.2	94.1
85°	18.1	39.8	48.9	54.3	55.2
87.5°	9.1	13.5	17.2	18.1	19.9
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)