

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: P734045

Luminaire Tested: **24FCZ2-30HE-B2750-W2D-CA125-5000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734045  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272053)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 24FCZ2-30HE-B2750-W2D-CA125-5000K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT  
AND RIBBED LENS, WITH, CA125 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

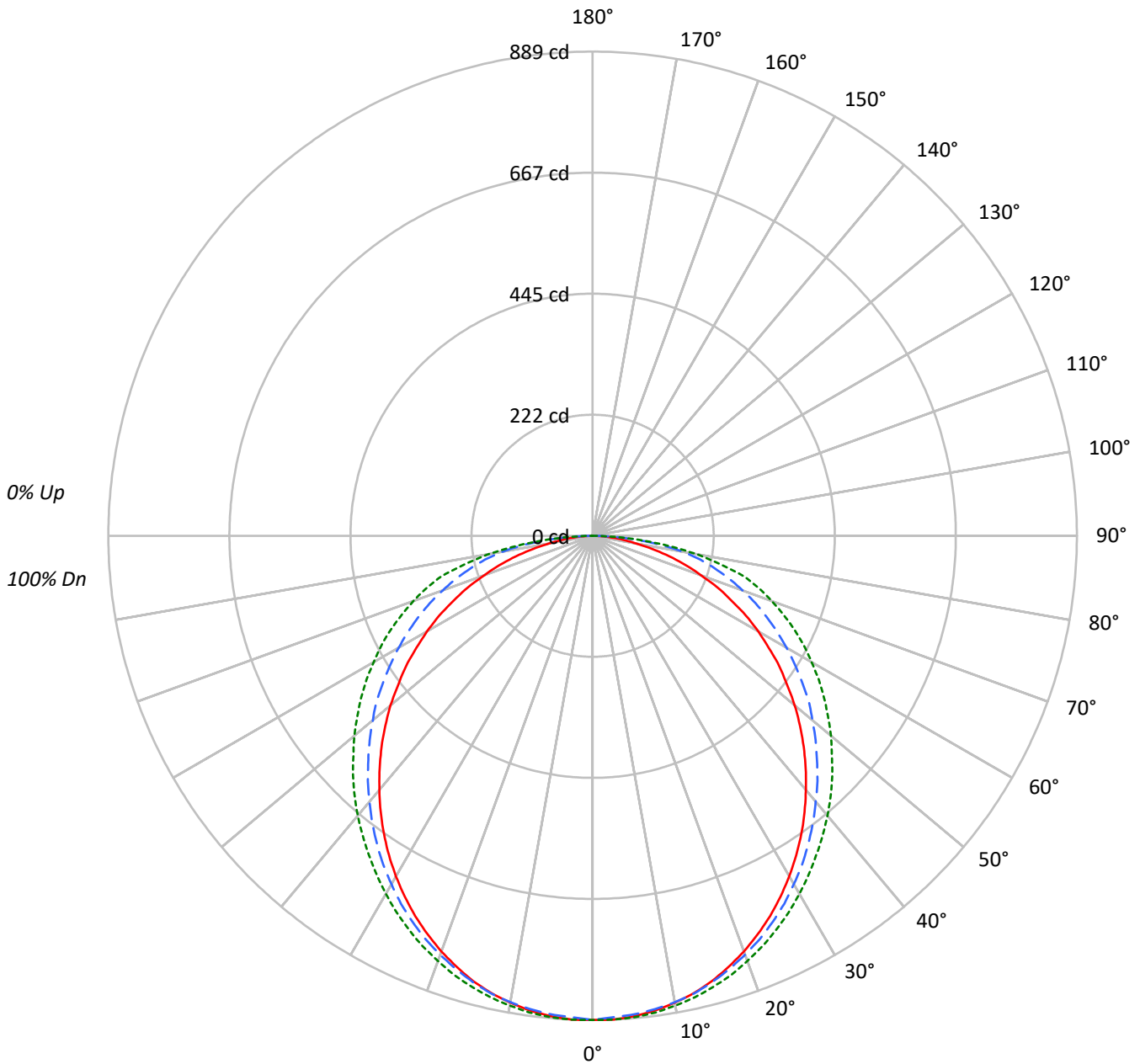
Lumens per Lamp: N/A  
Luminaire Lumens: 2648.0 lumens  
Efficiency: N/A  
Efficacy: 120.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 22  
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	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	60	68	63	58	56																			
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	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	39	50	44	38	49	43	38	36																			
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32																			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28																			
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25																			
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23																			

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

	0°	45°	90°
0°	1255	1255	1255
5°	1255	1250	1257
10°	1248	1246	1255
15°	1237	1240	1252
20°	1220	1229	1248
25°	1200	1218	1243
30°	1177	1204	1237
35°	1151	1189	1233
40°	1122	1174	1236
45°	1094	1162	1242
50°	1063	1156	1253
55°	1031	1155	1276
60°	990	1160	1310
65°	938	1178	1366
70°	872	1207	1444
75°	795	1267	1566
80°	653	1365	1566
85°	500	1260	1346



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.1	3.2
10°-20°	240.1	9.1
20°-30°	361.2	13.6
30°-40°	432.9	16.3
40°-50°	451.1	17.0
50°-60°	419.7	15.9
60°-70°	345.7	13.1
70°-80°	235.4	8.9
80°-90°	77.7	2.9
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°	685.4	25.9
0°-40°	1118.3	42.2
0°-60°	1989.1	75.1
0°-90°	2648.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2648.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	889	889	889	889	889	
5°	886	886	882	886	887	84
15°	847	848	848	856	857	239
25°	771	774	782	795	798	355
35°	668	676	690	709	716	418
45°	548	559	582	612	622	423
55°	419	433	469	506	519	373
65°	281	305	353	394	409	279
75°	146	178	232	274	287	154
85°	31	60	78	83	83	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	889.1	889.1	889.1	889.1	889.1
2.5°	889.1	889.1	884.6	889.1	889.1
5°	885.5	885.5	882.0	886.4	887.3
7.5°	879.3	880.3	876.7	882.0	882.9
10°	870.5	871.4	869.6	874.9	875.8
12.5°	859.9	860.8	860.8	866.9	867.9
15°	846.6	847.6	848.4	856.4	857.2
17.5°	829.9	832.5	834.2	844.0	845.7
20°	812.2	814.9	818.4	828.9	830.7
22.5°	791.8	795.4	801.5	813.0	815.7
25°	770.7	774.2	782.2	795.4	798.0
27.5°	746.8	752.1	761.8	776.0	779.5
30°	722.1	727.3	738.8	753.8	759.1
32.5°	695.6	702.6	715.8	732.6	738.0
35°	668.1	676.1	690.2	708.8	715.8
37.5°	639.0	647.8	664.6	684.9	693.7
40°	609.0	619.5	637.2	661.0	670.7
42.5°	578.8	588.6	610.7	636.3	646.9
45°	547.9	559.4	582.4	611.5	622.2
47.5°	516.1	527.6	555.0	586.0	595.6
50°	484.3	495.8	526.7	559.4	570.9
52.5°	449.8	464.8	500.2	532.9	544.4
55°	418.9	433.0	469.3	506.4	518.7
57.5°	383.6	400.3	440.1	479.0	492.2
60°	350.9	368.5	410.9	450.7	464.0
62.5°	317.3	336.7	381.8	422.4	437.5
65°	281.0	304.9	352.6	394.1	409.1
67.5°	248.3	273.1	323.5	365.9	379.1
70°	211.2	241.3	292.5	335.0	350.0
72.5°	179.4	209.4	263.3	304.9	319.9
75°	145.8	178.5	232.4	274.0	287.2
77.5°	112.3	148.5	202.4	234.2	238.6
80°	80.4	118.4	167.9	186.5	192.7
82.5°	56.6	91.1	123.8	136.1	139.6
85°	30.9	60.1	77.8	83.1	83.1
87.5°	13.2	25.7	30.9	31.8	32.7
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)