

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: P734043

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734043  
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-CA125-3500K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT  
AND RIBBED LENS, WITH, CA125 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

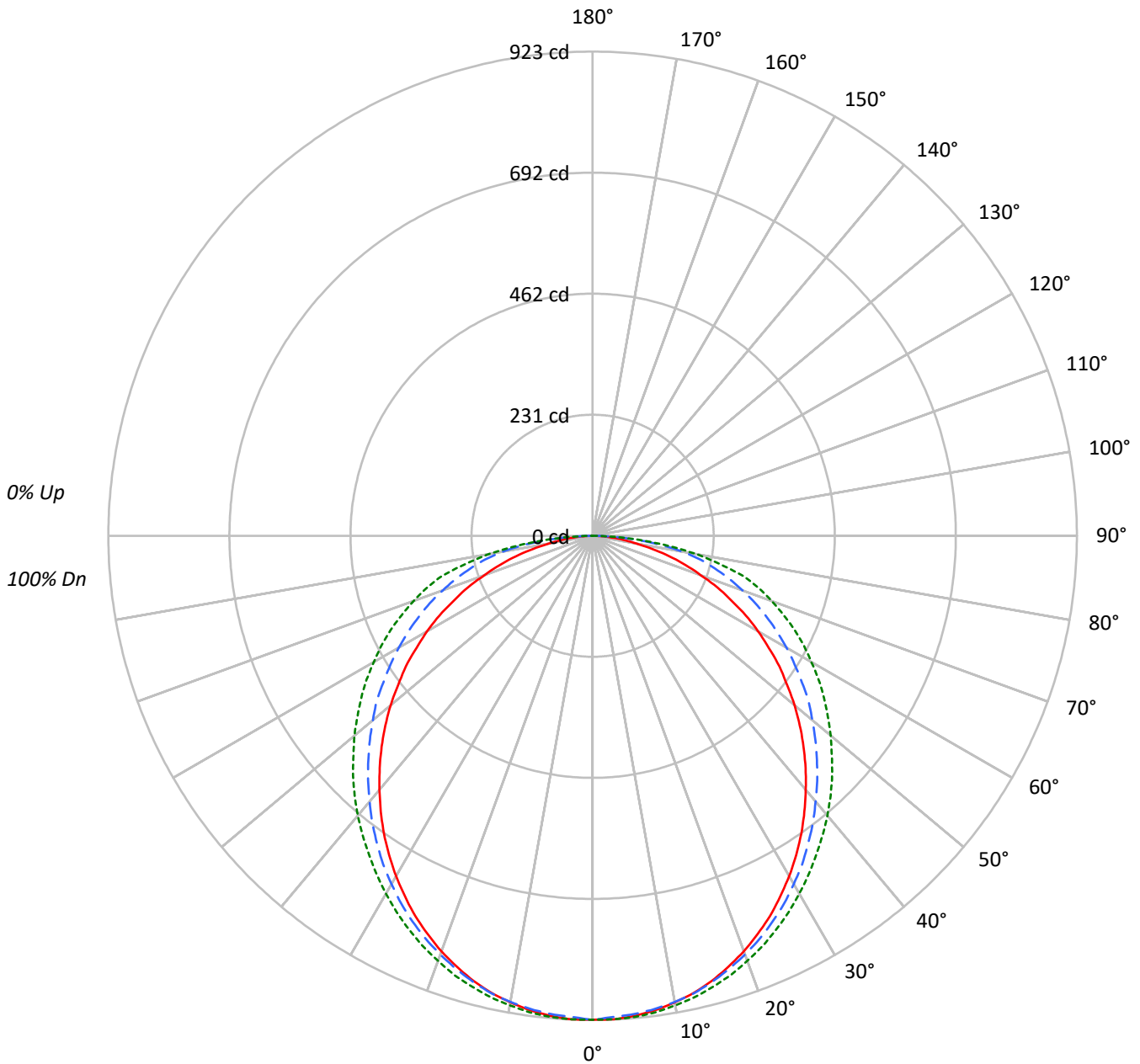
Lumens per Lamp: N/A  
Luminaire Lumens: 2748.0 lumens  
Efficiency: N/A  
Efficacy: 124.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	1302	1302	1302
5°	1302	1297	1305
10°	1295	1293	1303
15°	1284	1286	1300
20°	1266	1276	1295
25°	1245	1264	1290
30°	1221	1249	1284
35°	1195	1234	1280
40°	1164	1218	1282
45°	1135	1206	1289
50°	1104	1200	1301
55°	1070	1198	1325
60°	1028	1204	1359
65°	974	1222	1418
70°	905	1252	1499
75°	825	1315	1625
80°	679	1416	1626
85°	520	1307	1396



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.3	3.2
10°-20°	249.1	9.1
20°-30°	374.9	13.6
30°-40°	449.3	16.3
40°-50°	468.2	17.0
50°-60°	435.6	15.9
60°-70°	358.7	13.1
70°-80°	244.3	8.9
80°-90°	80.7	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°	711.3	25.9
0°-40°	1160.5	42.2
0°-60°	2064.3	75.1
0°-90°	2748.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2748.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	923	923	923	923	923	
5°	919	919	915	920	921	87
15°	879	880	880	889	890	248
25°	800	803	812	825	828	368
35°	693	702	716	736	743	433
45°	569	581	604	635	646	439
55°	435	449	487	526	538	388
65°	292	316	366	409	425	289
75°	151	185	241	284	298	160
85°	32	62	81	86	86	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	922.7	922.7	922.7	922.7	922.7
2.5°	922.7	922.7	918.0	922.7	922.7
5°	918.9	918.9	915.3	919.9	920.8
7.5°	912.5	913.5	909.9	915.3	916.3
10°	903.3	904.3	902.4	908.0	908.9
12.5°	892.4	893.3	893.3	899.7	900.7
15°	878.6	879.6	880.4	888.7	889.6
17.5°	861.2	864.0	865.7	875.9	877.7
20°	842.9	845.6	849.3	860.2	862.1
22.5°	821.8	825.4	831.8	843.7	846.5
25°	799.8	803.4	811.7	825.4	828.2
27.5°	775.0	780.5	790.6	805.3	808.9
30°	749.3	754.8	766.7	782.3	787.8
32.5°	721.8	729.1	742.8	760.3	765.8
35°	693.3	701.6	716.3	735.5	742.8
37.5°	663.1	672.3	689.7	710.8	719.9
40°	632.0	642.9	661.2	686.0	696.1
42.5°	600.7	610.8	633.7	660.4	671.3
45°	568.6	580.6	604.4	634.6	645.7
47.5°	535.6	547.5	575.9	608.1	618.1
50°	502.6	514.6	546.6	580.6	592.5
52.5°	466.8	482.4	519.1	553.0	565.0
55°	434.8	449.3	487.0	525.5	538.3
57.5°	398.1	415.4	456.7	497.1	510.8
60°	364.1	382.5	426.5	467.7	481.5
62.5°	329.3	349.4	396.2	438.4	454.0
65°	291.6	316.4	365.9	409.0	424.6
67.5°	257.7	283.4	335.7	379.7	393.4
70°	219.2	250.4	303.5	347.6	363.2
72.5°	186.1	217.3	273.3	316.4	332.0
75°	151.3	185.3	241.2	284.3	298.0
77.5°	116.5	154.1	210.0	243.1	247.6
80°	83.5	122.9	174.2	193.6	200.0
82.5°	58.7	94.5	128.4	141.3	144.9
85°	32.1	62.3	80.7	86.2	86.2
87.5°	13.7	26.6	32.1	33.1	33.9
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)