

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: P733925

Luminaire Tested: **24FCZ2-30-B2750-W2D-CP187-5000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P733925  
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: 24FCZ2-30-B2750-W2D-CP187-5000K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT  
AND RIBBED LENS, WITH, CP187 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

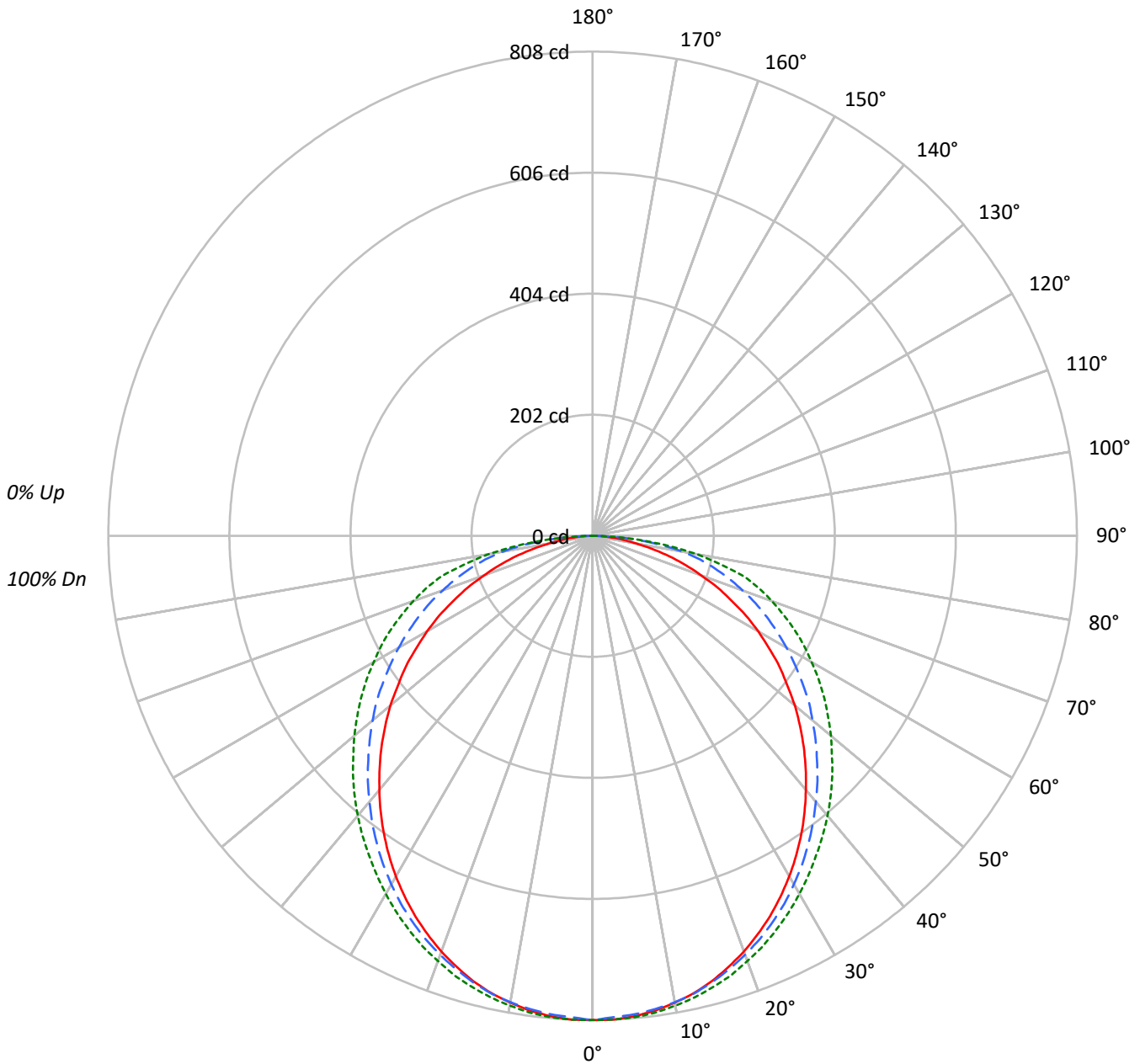
Lumens per Lamp: N/A  
Luminaire Lumens: 2407.0 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	1141	1141	1141
5°	1140	1136	1143
10°	1134	1133	1141
15°	1124	1127	1139
20°	1109	1117	1134
25°	1091	1107	1130
30°	1070	1094	1125
35°	1046	1081	1121
40°	1020	1067	1123
45°	994	1057	1129
50°	967	1051	1140
55°	937	1050	1160
60°	900	1054	1191
65°	853	1070	1242
70°	792	1097	1313
75°	723	1152	1423
80°	594	1240	1424
85°	455	1145	1223



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.4	3.2
10°-20°	218.2	9.1
20°-30°	328.4	13.6
30°-40°	393.5	16.3
40°-50°	410.1	17.0
50°-60°	381.5	15.9
60°-70°	314.2	13.1
70°-80°	214.0	8.9
80°-90°	70.7	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°	623.0	25.9
0°-40°	1016.5	42.2
0°-60°	1808.1	75.1
0°-90°	2407.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2407.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	808	808	808	808	808	
5°	805	805	802	806	806	76
15°	770	770	771	778	779	217
25°	700	704	711	723	725	322
35°	607	614	627	644	651	380
45°	498	508	529	556	566	384
55°	381	394	427	460	472	339
65°	255	277	320	358	372	254
75°	133	162	211	249	261	140
85°	28	55	71	76	76	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	808.2	808.2	808.2	808.2	808.2
2.5°	808.2	808.2	804.1	808.2	808.2
5°	804.9	804.9	801.7	805.8	806.5
7.5°	799.3	800.1	796.9	801.7	802.6
10°	791.2	792.1	790.5	795.3	796.1
12.5°	781.6	782.4	782.4	788.0	788.9
15°	769.5	770.4	771.2	778.5	779.2
17.5°	754.3	756.8	758.3	767.2	768.8
20°	738.3	740.7	743.9	753.5	755.1
22.5°	719.8	723.0	728.6	739.0	741.5
25°	700.5	703.7	711.0	723.0	725.4
27.5°	678.8	683.7	692.5	705.4	708.5
30°	656.4	661.1	671.6	685.2	690.1
32.5°	632.3	638.6	650.6	665.9	670.8
35°	607.3	614.5	627.4	644.3	650.6
37.5°	580.8	588.9	604.1	622.6	630.6
40°	553.5	563.1	579.2	600.9	609.7
42.5°	526.1	535.0	555.1	578.4	588.0
45°	498.1	508.5	529.4	555.9	565.5
47.5°	469.1	479.6	504.4	532.6	541.4
50°	440.3	450.7	478.8	508.5	519.0
52.5°	408.9	422.5	454.7	484.4	494.9
55°	380.8	393.6	426.6	460.3	471.5
57.5°	348.7	363.9	400.1	435.4	447.4
60°	318.9	335.0	373.5	409.7	421.8
62.5°	288.4	306.1	347.0	384.0	397.7
65°	255.4	277.1	320.5	358.2	371.9
67.5°	225.7	248.3	294.1	332.6	344.6
70°	192.0	219.3	265.9	304.5	318.2
72.5°	163.0	190.4	239.3	277.1	290.8
75°	132.6	162.3	211.3	249.0	261.0
77.5°	102.1	135.0	184.0	212.9	216.9
80°	73.1	107.7	152.6	169.5	175.2
82.5°	51.4	82.8	112.5	123.7	126.9
85°	28.1	54.6	70.7	75.5	75.5
87.5°	12.0	23.3	28.1	28.9	29.7
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)