

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: P733930

Luminaire Tested: **24FCZ2-30-B2750-W2D-CP250-5000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P733930  
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-CP250-5000K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT  
AND RIBBED LENS, WITH, CP250 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

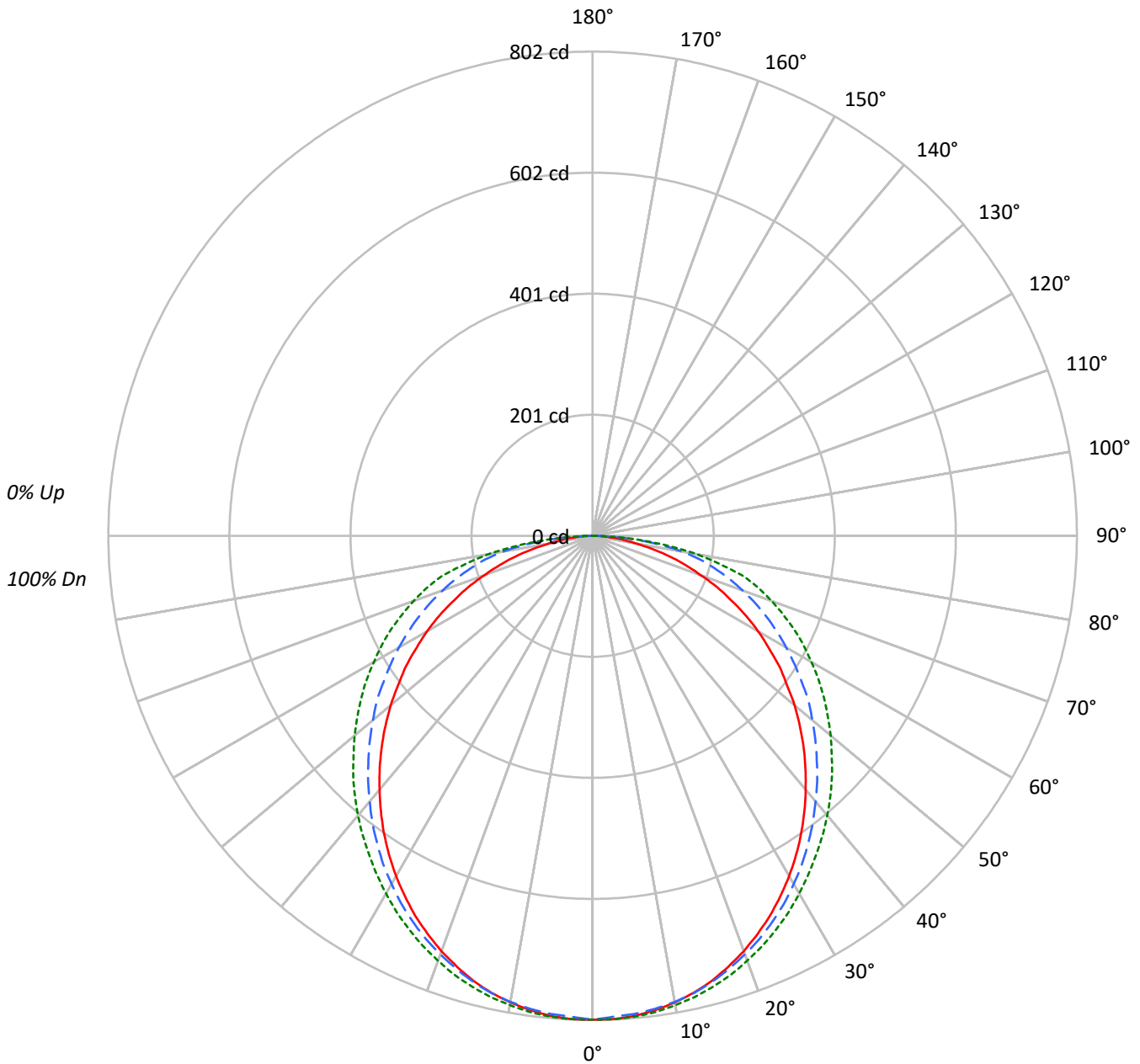
Lumens per Lamp: N/A  
Luminaire Lumens: 2387.0 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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					20										
RC	80					70					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	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°	1131	1131	1131
5°	1131	1126	1133
10°	1125	1123	1131
15°	1115	1117	1129
20°	1100	1108	1125
25°	1082	1098	1120
30°	1061	1085	1115
35°	1038	1072	1112
40°	1011	1058	1114
45°	986	1048	1119
50°	959	1042	1130
55°	929	1041	1151
60°	893	1046	1181
65°	846	1061	1232
70°	786	1088	1302
75°	717	1142	1412
80°	589	1230	1412
85°	450	1135	1213



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.8	3.2
10°-20°	216.4	9.1
20°-30°	325.6	13.6
30°-40°	390.2	16.3
40°-50°	406.7	17.0
50°-60°	378.4	15.9
60°-70°	311.6	13.1
70°-80°	212.2	8.9
80°-90°	70.1	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°	617.8	25.9
0°-40°	1008.1	42.2
0°-60°	1793.1	75.1
0°-90°	2387.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2387.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	802	802	802	802	802	
5°	798	798	795	799	800	76
15°	763	764	765	772	773	215
25°	695	698	705	717	719	320
35°	602	609	622	639	645	376
45°	494	504	525	551	561	381
55°	378	390	423	456	468	337
65°	253	275	318	355	369	251
75°	131	161	210	247	259	139
85°	28	54	70	75	75	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	801.5	801.5	801.5	801.5	801.5
2.5°	801.5	801.5	797.4	801.5	801.5
5°	798.2	798.2	795.0	799.1	799.8
7.5°	792.6	793.5	790.3	795.0	795.9
10°	784.7	785.5	783.9	788.7	789.5
12.5°	775.2	775.9	775.9	781.5	782.4
15°	763.2	764.0	764.8	772.0	772.8
17.5°	748.1	750.5	752.0	760.8	762.4
20°	732.1	734.5	737.7	747.2	748.8
22.5°	713.8	717.0	722.5	732.9	735.3
25°	694.7	697.9	705.1	717.0	719.4
27.5°	673.2	678.0	686.7	699.5	702.7
30°	650.9	655.6	666.0	679.5	684.3
32.5°	627.0	633.3	645.2	660.4	665.2
35°	602.2	609.4	622.2	638.9	645.2
37.5°	576.0	584.0	599.1	617.4	625.4
40°	548.9	558.4	574.4	595.9	604.6
42.5°	521.8	530.6	550.5	573.6	583.1
45°	493.9	504.3	525.0	551.2	560.8
47.5°	465.2	475.6	500.3	528.2	536.9
50°	436.6	447.0	474.8	504.3	514.7
52.5°	405.5	419.0	450.9	480.4	490.7
55°	377.6	390.3	423.1	456.5	467.6
57.5°	345.8	360.8	396.7	431.8	443.7
60°	316.3	332.2	370.4	406.3	418.3
62.5°	286.0	303.5	344.1	380.8	394.3
65°	253.3	274.8	317.8	355.3	368.8
67.5°	223.8	246.2	291.6	329.8	341.7
70°	190.4	217.5	263.7	302.0	315.5
72.5°	161.7	188.8	237.4	274.8	288.3
75°	131.4	160.9	209.5	247.0	258.9
77.5°	101.2	133.8	182.4	211.1	215.1
80°	72.5	106.8	151.3	168.1	173.7
82.5°	51.0	82.1	111.6	122.7	125.9
85°	27.8	54.2	70.1	74.9	74.9
87.5°	11.9	23.1	27.8	28.7	29.5
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)