

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: P733935

Luminaire Tested: **24FCZ2-30-B2750-W2D-CP375-5000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P733935  
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-CP375-5000K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT  
AND RIBBED LENS, WITH, CP375 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

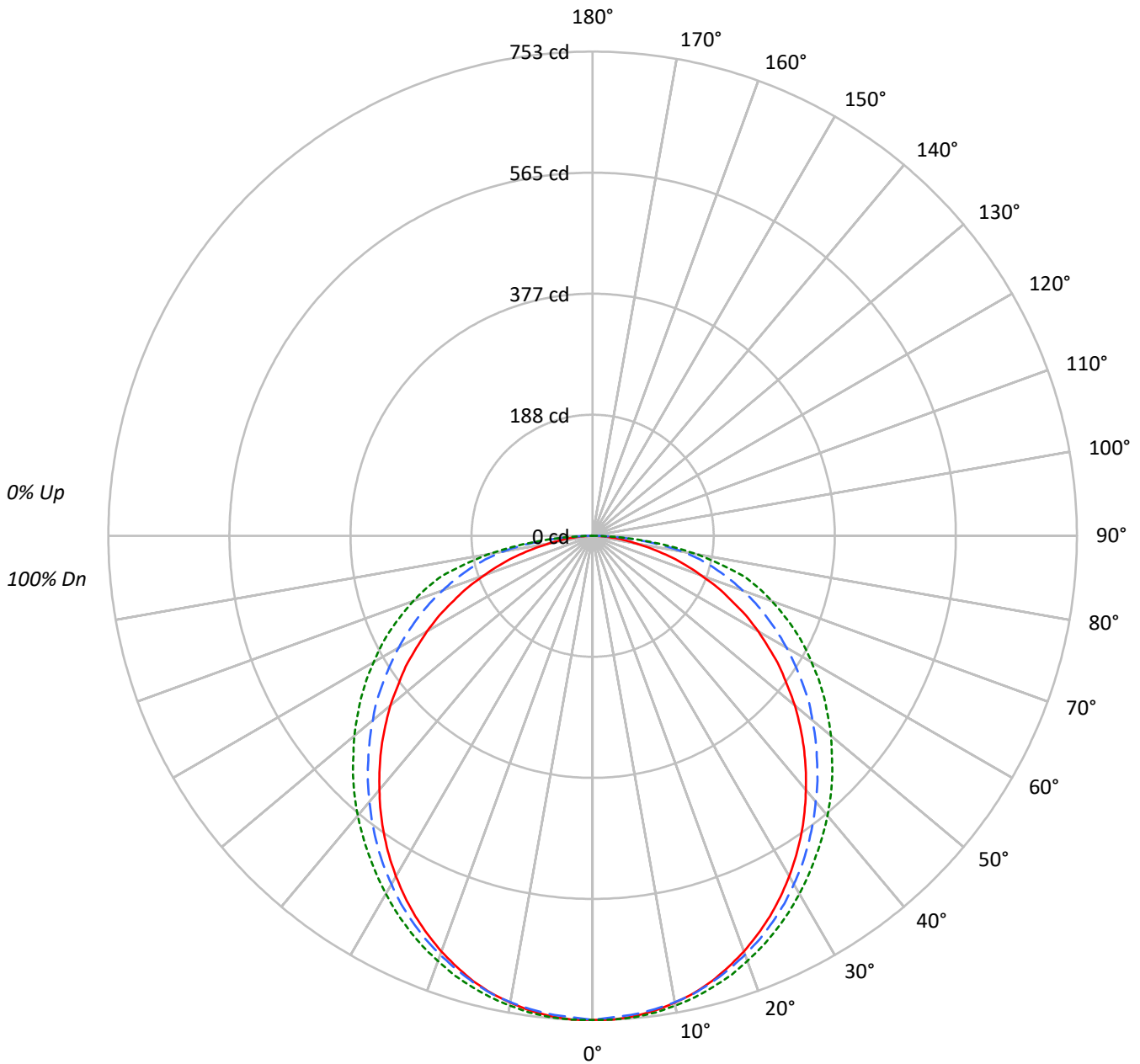
Lumens per Lamp: N/A  
Luminaire Lumens: 2243.0 lumens  
Efficiency: N/A  
Efficacy: 97.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	1063	1063	1063
5°	1063	1058	1065
10°	1057	1056	1063
15°	1048	1050	1061
20°	1033	1041	1057
25°	1017	1032	1053
30°	997	1020	1048
35°	975	1007	1045
40°	950	994	1047
45°	926	985	1052
50°	901	980	1062
55°	873	978	1081
60°	839	983	1109
65°	795	997	1157
70°	738	1023	1224
75°	673	1074	1326
80°	553	1156	1326
85°	424	1067	1140



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.2	3.2
10°-20°	203.3	9.1
20°-30°	306.0	13.6
30°-40°	366.7	16.3
40°-50°	382.1	17.0
50°-60°	355.5	15.9
60°-70°	292.8	13.1
70°-80°	199.4	8.9
80°-90°	65.8	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°	580.5	25.9
0°-40°	947.2	42.2
0°-60°	1684.9	75.1
0°-90°	2243.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2243.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	753	753	753	753	753	
5°	750	750	747	751	752	71
15°	717	718	719	725	726	202
25°	653	656	662	674	676	301
35°	566	573	585	600	606	354
45°	464	474	493	518	527	358
55°	355	367	398	429	439	316
65°	238	258	299	334	347	236
75°	124	151	197	232	243	130
85°	26	51	66	70	70	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	753.1	753.1	753.1	753.1	753.1
2.5°	753.1	753.1	749.3	753.1	753.1
5°	750.0	750.0	747.1	750.9	751.6
7.5°	744.8	745.6	742.6	747.1	747.9
10°	737.3	738.1	736.6	741.1	741.8
12.5°	728.4	729.1	729.1	734.3	735.2
15°	717.1	717.9	718.6	725.4	726.1
17.5°	702.9	705.2	706.6	714.9	716.4
20°	688.0	690.2	693.2	702.1	703.7
22.5°	670.7	673.7	678.9	688.7	690.9
25°	652.8	655.8	662.5	673.7	676.0
27.5°	632.6	637.1	645.3	657.3	660.3
30°	611.6	616.1	625.8	638.5	643.0
32.5°	589.2	595.1	606.3	620.6	625.1
35°	565.9	572.7	584.7	600.4	606.3
37.5°	541.3	548.8	562.9	580.2	587.6
40°	515.8	524.8	539.7	559.9	568.2
42.5°	490.3	498.6	517.3	539.0	547.9
45°	464.1	473.9	493.4	518.0	527.0
47.5°	437.1	446.9	470.1	496.3	504.5
50°	410.3	420.0	446.2	473.9	483.6
52.5°	381.0	393.7	423.7	451.4	461.1
55°	354.9	366.8	397.5	428.9	439.4
57.5°	324.9	339.1	372.8	405.7	416.9
60°	297.2	312.2	348.1	381.7	393.0
62.5°	268.8	285.2	323.4	357.8	370.6
65°	238.0	258.2	298.6	333.8	346.6
67.5°	210.3	231.3	274.0	309.9	321.1
70°	178.9	204.4	247.8	283.8	296.5
72.5°	151.9	177.4	223.0	258.2	270.9
75°	123.5	151.2	196.9	232.1	243.2
77.5°	95.1	125.8	171.4	198.4	202.1
80°	68.1	100.3	142.2	158.0	163.2
82.5°	47.9	77.1	104.8	115.3	118.3
85°	26.2	50.9	65.9	70.4	70.4
87.5°	11.2	21.7	26.2	27.0	27.7
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)