

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: P734006

Luminaire Tested: **24FCZ2-30-S-B2750-W2D-CP375-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734006  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272125)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 24FCZ2-30-S-B2750-W2D-CP375-2700K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT  
AND SMOOTH LENS, WITH, CP375 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

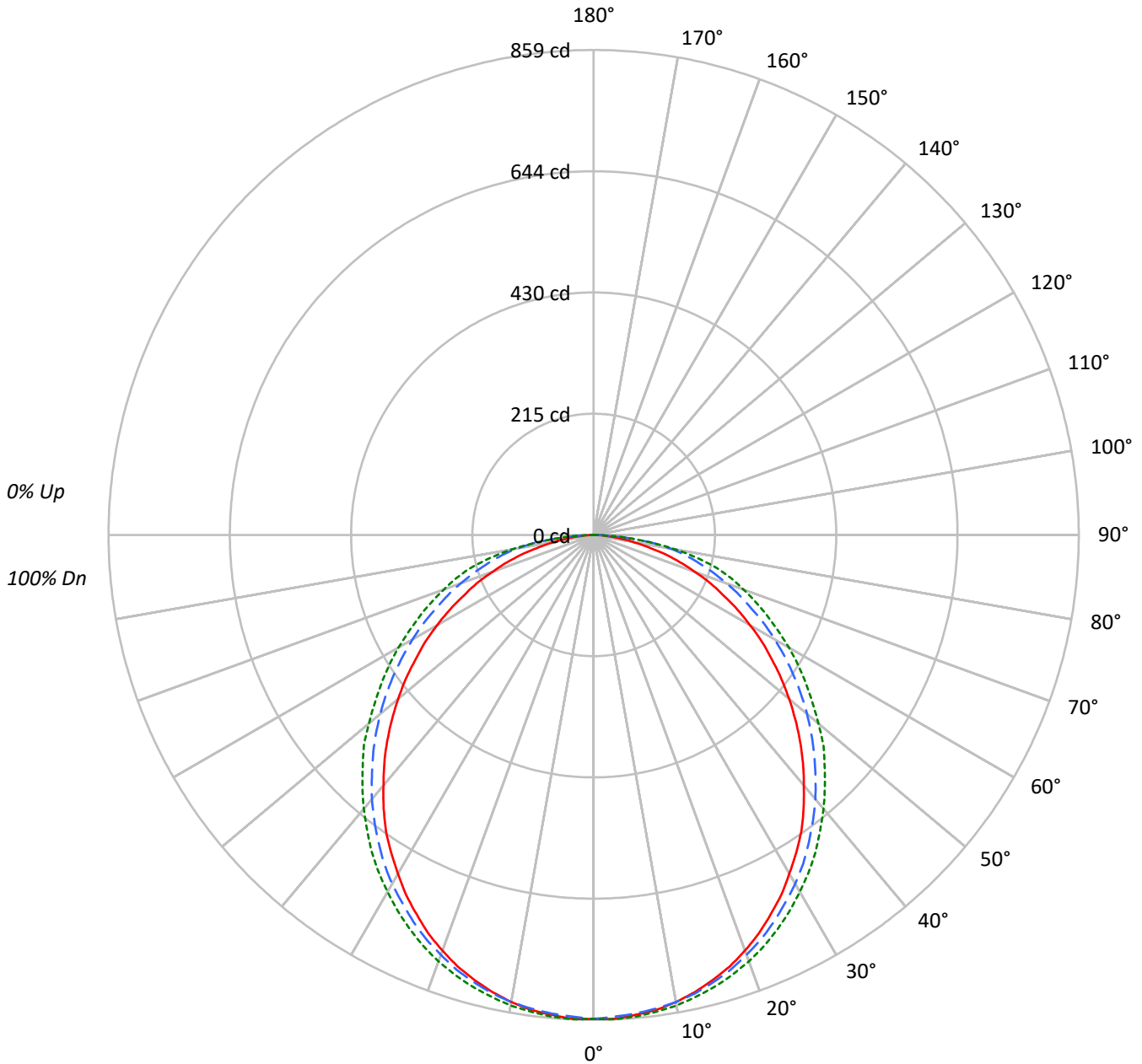
Lumens per Lamp: N/A  
Luminaire Lumens: 2440.0 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83																			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69																			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37																			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26																			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24																			

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

	0°	45°	90°
0°	1210	1210	1210
5°	1209	1206	1213
10°	1204	1204	1213
15°	1192	1198	1211
20°	1177	1188	1207
25°	1155	1177	1200
30°	1129	1163	1190
35°	1104	1144	1180
40°	1067	1125	1167
45°	1032	1103	1154
50°	992	1082	1140
55°	948	1062	1129
60°	904	1046	1127
65°	846	1028	1133
70°	783	1033	1164
75°	702	1052	1230
80°	567	1115	1203
85°	426	978	954



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.1	3.3
10°-20°	231.9	9.5
20°-30°	348.6	14.3
30°-40°	415.2	17.0
40°-50°	424.9	17.4
50°-60°	382.6	15.7
60°-70°	300.4	12.3
70°-80°	195.0	8.0
80°-90°	60.3	2.5
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°	661.6	27.1
0°-40°	1076.8	44.1
0°-60°	1884.3	77.2
0°-90°	2440.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2440.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	857	857	857	857	857	
5°	853	855	851	856	856	81
15°	816	818	820	827	829	230
25°	742	748	756	768	770	342
35°	641	649	664	680	685	400
45°	517	529	553	574	578	399
55°	385	402	432	454	459	345
65°	253	273	308	333	339	252
75°	129	153	193	219	226	136
85°	26	49	60	59	59	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	857.2	857.2	857.2	857.2	857.2
2.5°	858.0	858.0	854.1	858.0	858.7
5°	853.3	854.9	851.0	855.6	856.4
7.5°	848.6	848.6	846.3	851.0	851.8
10°	840.1	840.9	840.1	845.6	846.3
12.5°	829.3	830.8	831.6	837.1	837.8
15°	816.1	818.5	820.0	827.0	828.6
17.5°	801.4	803.7	807.5	815.3	816.9
20°	783.6	786.6	791.3	801.4	803.7
22.5°	764.2	767.3	775.1	784.3	788.2
25°	741.7	747.9	755.6	768.1	770.4
27.5°	719.2	724.6	734.7	747.9	751.1
30°	692.9	701.4	713.8	727.0	730.0
32.5°	667.3	675.8	690.5	704.6	708.4
35°	641.0	648.7	664.2	680.5	685.1
37.5°	610.7	620.8	637.9	654.1	658.8
40°	579.0	591.4	610.7	627.8	633.2
42.5°	548.7	561.9	581.3	599.9	606.0
45°	517.0	529.4	552.6	573.5	578.2
47.5°	484.4	498.4	523.1	544.0	551.8
50°	451.9	466.6	493.0	514.6	519.3
52.5°	419.3	434.8	462.7	485.9	488.3
55°	385.2	402.3	431.7	454.2	458.9
57.5°	354.2	368.9	400.7	423.9	429.4
60°	320.1	336.4	370.4	392.2	399.1
62.5°	287.5	304.6	340.3	361.9	368.1
65°	253.4	272.9	307.7	333.3	339.4
67.5°	224.0	242.6	279.8	304.6	310.8
70°	189.8	210.9	250.4	275.9	282.1
72.5°	160.4	182.1	221.7	246.4	255.8
75°	128.7	153.4	193.0	219.3	225.5
77.5°	97.7	126.3	166.6	186.8	186.8
80°	69.8	100.0	137.2	146.5	148.0
82.5°	45.8	75.2	101.5	100.8	100.8
85°	26.3	48.8	60.4	58.9	58.9
87.5°	10.1	20.2	21.7	21.7	20.9
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)