

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: P734026

Luminaire Tested: **24FCZ2-30-SQR-B2750-W2D-CP250-2700K**

Issue Date: 1/5/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P734026  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P388488)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 24FCZ2-30-SQR-B2750-W2D-CP250-2700K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT  
AND SQR LENS, WITH, CP250 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

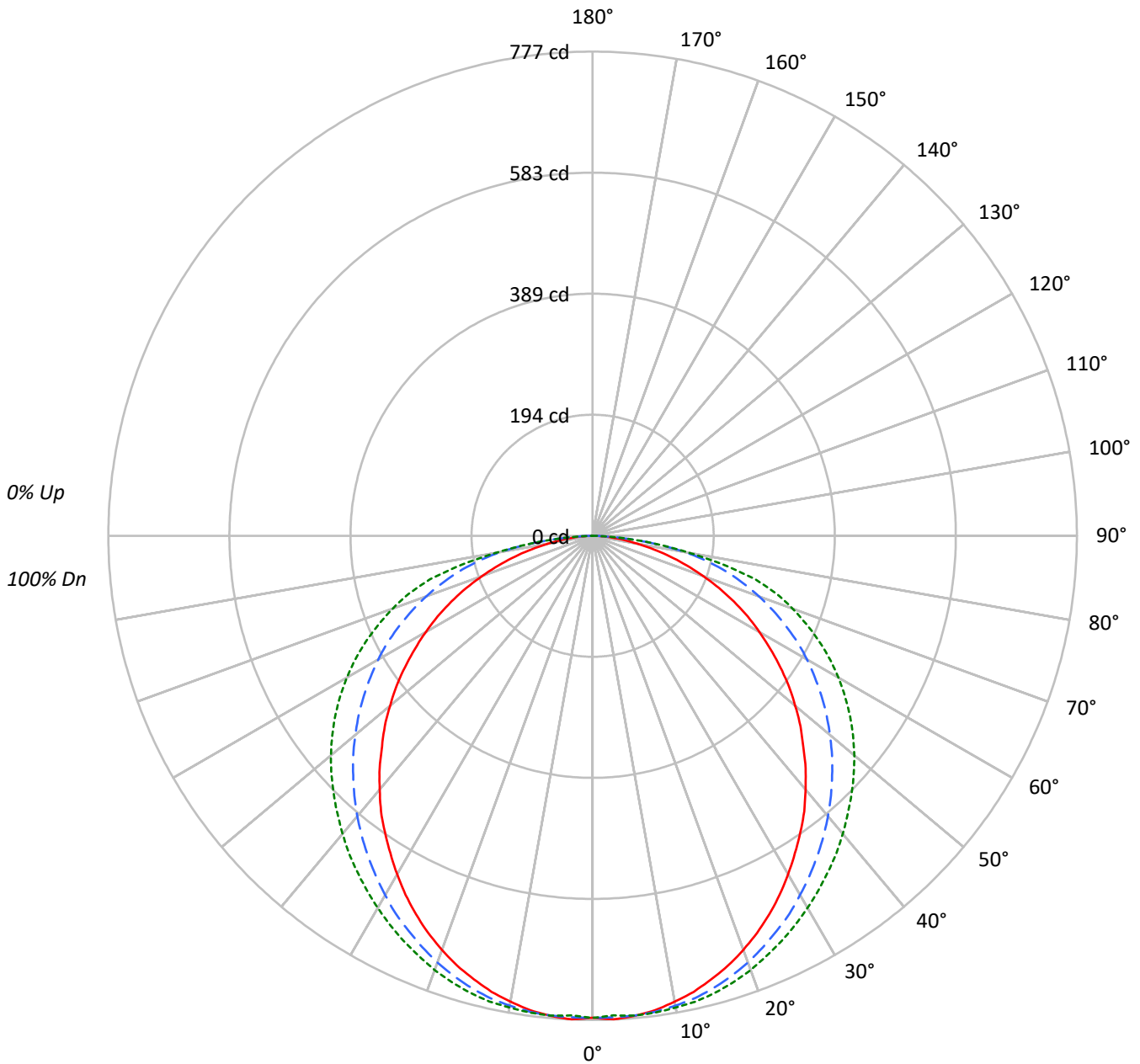
Lumens per Lamp: N/A  
Luminaire Lumens: 2420.0 lumens  
Efficiency: N/A  
Efficacy: 105.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67																			
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47																			
5	74	61	51	44	72	60	51	44	57	50	44	55	49	43	54	48	43	41																			
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35																			
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28																			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25																			
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22																			

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

	0°	45°	90°
0°	1092	1092	1092
5°	1096	1095	1095
10°	1088	1097	1102
15°	1076	1098	1109
20°	1062	1095	1114
25°	1044	1089	1117
30°	1022	1085	1124
35°	1001	1082	1134
40°	979	1082	1150
45°	954	1085	1172
50°	932	1091	1204
55°	905	1103	1241
60°	873	1121	1286
65°	835	1142	1340
70°	775	1171	1408
75°	702	1211	1473
80°	591	1214	1266
85°	452	918	918



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.4	3.0
10°-20°	211.3	8.7
20°-30°	320.9	13.3
30°-40°	390.3	16.1
40°-50°	415.6	17.2
50°-60°	395.8	16.4
60°-70°	331.0	13.7
70°-80°	220.7	9.1
80°-90°	61.0	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°	605.6	25.0
0°-40°	995.9	41.2
0°-60°	1807.3	74.7
0°-90°	2420.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2420.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	774	774	774	774	774	
5°	774	769	773	773	773	73
15°	737	738	751	757	759	208
25°	670	679	699	711	718	309
35°	581	598	628	649	658	364
45°	478	504	543	574	587	369
55°	368	400	448	488	504	329
65°	250	287	342	384	401	247
75°	129	169	222	260	270	136
85°	28	52	57	56	57	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	773.5	773.5	773.5	773.5	773.5
2.5°	776.7	771.1	773.5	773.5	770.4
5°	773.5	768.7	772.8	772.8	772.8
7.5°	768.0	764.0	770.4	771.9	771.9
10°	759.2	757.6	765.6	768.0	768.7
12.5°	749.6	748.8	760.0	763.1	765.6
15°	736.7	738.4	751.2	756.8	759.2
17.5°	723.2	726.4	740.8	748.8	751.2
20°	707.2	712.0	728.8	736.7	741.6
22.5°	689.7	696.9	714.4	724.0	729.6
25°	670.5	679.2	699.3	711.2	717.6
27.5°	649.7	660.9	684.1	697.6	704.0
30°	627.3	640.1	665.7	681.7	689.7
32.5°	604.1	619.3	647.3	664.9	674.4
35°	581.0	597.8	628.1	648.9	658.4
37.5°	557.8	574.5	608.2	630.5	642.5
40°	531.4	551.4	587.4	612.1	624.2
42.5°	505.9	527.4	565.8	592.9	605.8
45°	477.8	503.5	543.4	573.8	587.4
47.5°	452.3	477.8	521.0	553.0	568.2
50°	424.3	451.5	497.0	532.3	548.2
52.5°	397.1	425.2	473.1	510.7	526.6
55°	367.6	399.5	448.3	487.5	504.2
57.5°	338.0	372.4	422.7	463.5	480.3
60°	309.3	344.4	397.1	438.0	455.5
62.5°	280.5	315.6	370.8	412.3	429.1
65°	250.1	286.8	342.0	384.4	401.2
67.5°	219.8	258.1	313.2	355.6	371.6
70°	187.8	228.6	283.7	325.3	341.3
72.5°	158.3	199.0	253.3	294.1	309.3
75°	128.7	169.4	222.1	259.7	270.1
77.5°	99.9	140.6	187.8	212.6	215.0
80°	72.7	111.1	149.4	156.6	155.8
82.5°	48.7	83.1	103.1	103.9	106.2
85°	27.9	51.9	56.7	56.0	56.7
87.5°	11.2	18.4	16.0	11.9	11.9
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)