

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: P733994

Luminaire Tested: **24FCZ2-30-S-B2750-W2D-CA125-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P733994  
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-CA125-4000K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT  
AND SMOOTH LENS, WITH, CA125 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

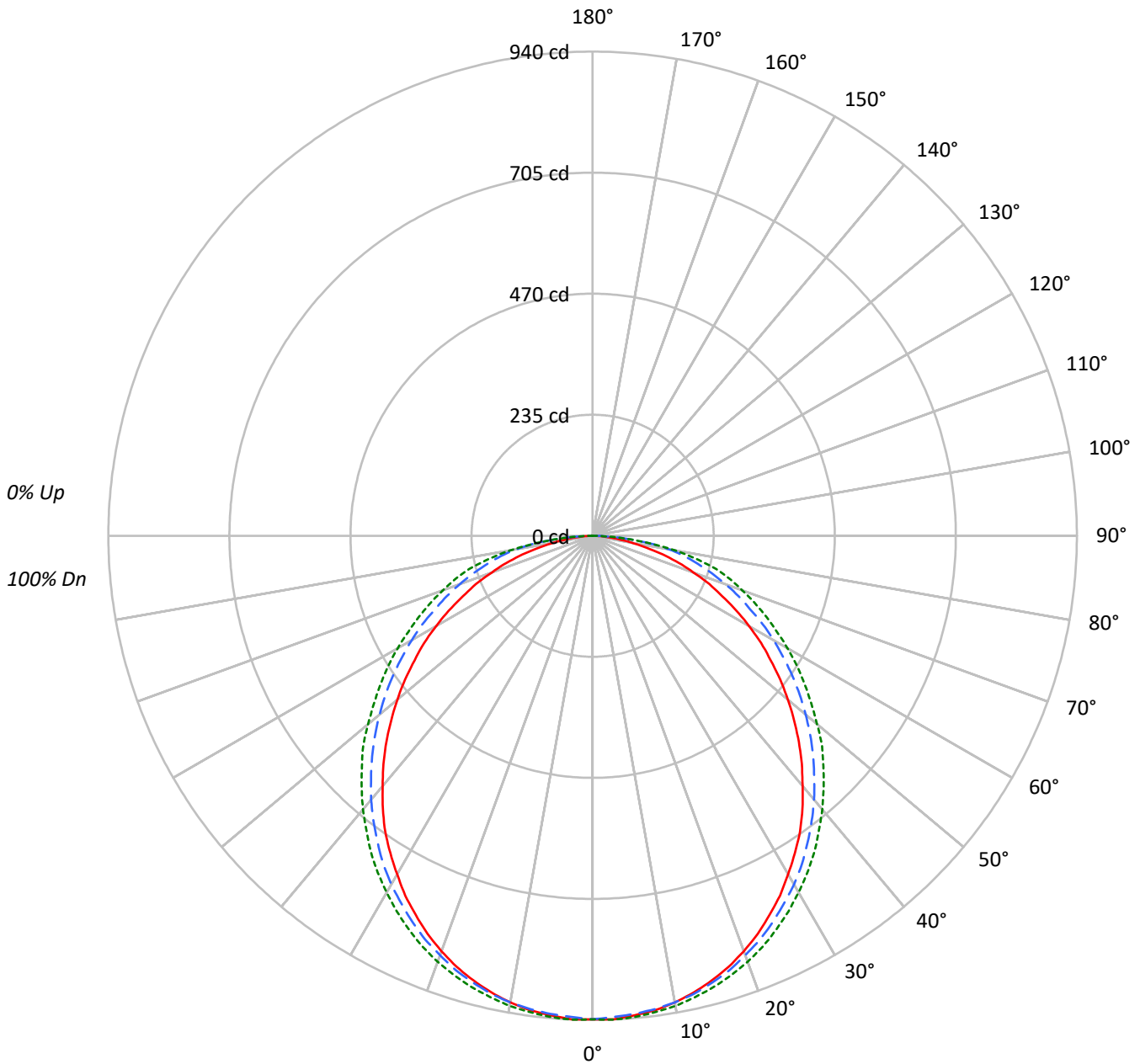
Lumens per Lamp: N/A  
Luminaire Lumens: 2672.0 lumens  
Efficiency: N/A  
Efficacy: 116.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	1325	1325	1325
5°	1324	1320	1329
10°	1318	1318	1328
15°	1306	1312	1326
20°	1289	1301	1322
25°	1265	1289	1314
30°	1237	1274	1303
35°	1209	1253	1293
40°	1168	1232	1278
45°	1130	1208	1264
50°	1086	1185	1249
55°	1038	1163	1236
60°	989	1145	1234
65°	927	1125	1241
70°	858	1131	1275
75°	768	1153	1347
80°	621	1221	1317
85°	466	1072	1044



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.9	3.3
10°-20°	253.9	9.5
20°-30°	381.7	14.3
30°-40°	454.7	17.0
40°-50°	465.3	17.4
50°-60°	418.9	15.7
60°-70°	329.0	12.3
70°-80°	213.5	8.0
80°-90°	66.0	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°	724.5	27.1
0°-40°	1179.2	44.1
0°-60°	2063.4	77.2
0°-90°	2672.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2672.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	939	939	939	939	939	
5°	934	936	932	937	938	89
15°	894	896	898	906	907	252
25°	812	819	828	841	844	374
35°	702	710	727	745	750	438
45°	566	580	605	628	633	436
55°	422	440	473	497	502	378
65°	278	299	337	365	372	276
75°	141	168	211	240	247	149
85°	29	54	66	64	64	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	938.7	938.7	938.7	938.7	938.7
2.5°	939.6	939.6	935.3	939.6	940.4
5°	934.4	936.2	931.9	937.0	937.8
7.5°	929.3	929.3	926.8	931.9	932.8
10°	920.0	920.8	920.0	926.0	926.8
12.5°	908.2	909.8	910.7	916.6	917.5
15°	893.7	896.3	897.9	905.6	907.3
17.5°	877.6	880.1	884.3	892.8	894.6
20°	858.1	861.4	866.5	877.6	880.1
22.5°	836.9	840.3	848.7	858.9	863.2
25°	812.2	819.0	827.5	841.1	843.6
27.5°	787.6	793.5	804.6	819.0	822.5
30°	758.8	768.1	781.7	796.1	799.5
32.5°	730.7	740.0	756.2	771.5	775.7
35°	701.9	710.4	727.4	745.2	750.3
37.5°	668.8	679.8	698.5	716.3	721.4
40°	634.0	647.6	668.8	687.5	693.4
42.5°	600.9	615.3	636.6	656.9	663.7
45°	566.1	579.7	605.2	628.1	633.2
47.5°	530.4	545.8	572.9	595.8	604.2
50°	494.8	511.0	539.8	563.5	568.7
52.5°	459.1	476.1	506.7	532.2	534.7
55°	421.8	440.5	472.7	497.4	502.5
57.5°	387.9	404.0	438.8	464.3	470.2
60°	350.5	368.3	405.7	429.5	437.1
62.5°	314.9	333.6	372.6	396.4	403.1
65°	277.5	298.8	336.9	365.0	371.7
67.5°	245.3	265.7	306.4	333.6	340.3
70°	207.9	230.9	274.2	302.2	308.9
72.5°	175.7	199.4	242.8	269.9	280.1
75°	140.9	168.0	211.4	240.2	247.0
77.5°	107.0	138.4	182.4	204.5	204.5
80°	76.4	109.5	150.2	160.4	162.1
82.5°	50.1	82.3	111.2	110.3	110.3
85°	28.8	53.5	66.2	64.5	64.5
87.5°	11.0	22.1	23.7	23.7	22.9
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)