

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: P733989

Luminaire Tested: **24FCZ2-30-S-B2750-W2D-CA08-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P733989  
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-CA08-4000K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT  
AND SMOOTH LENS, WITH, CA08 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

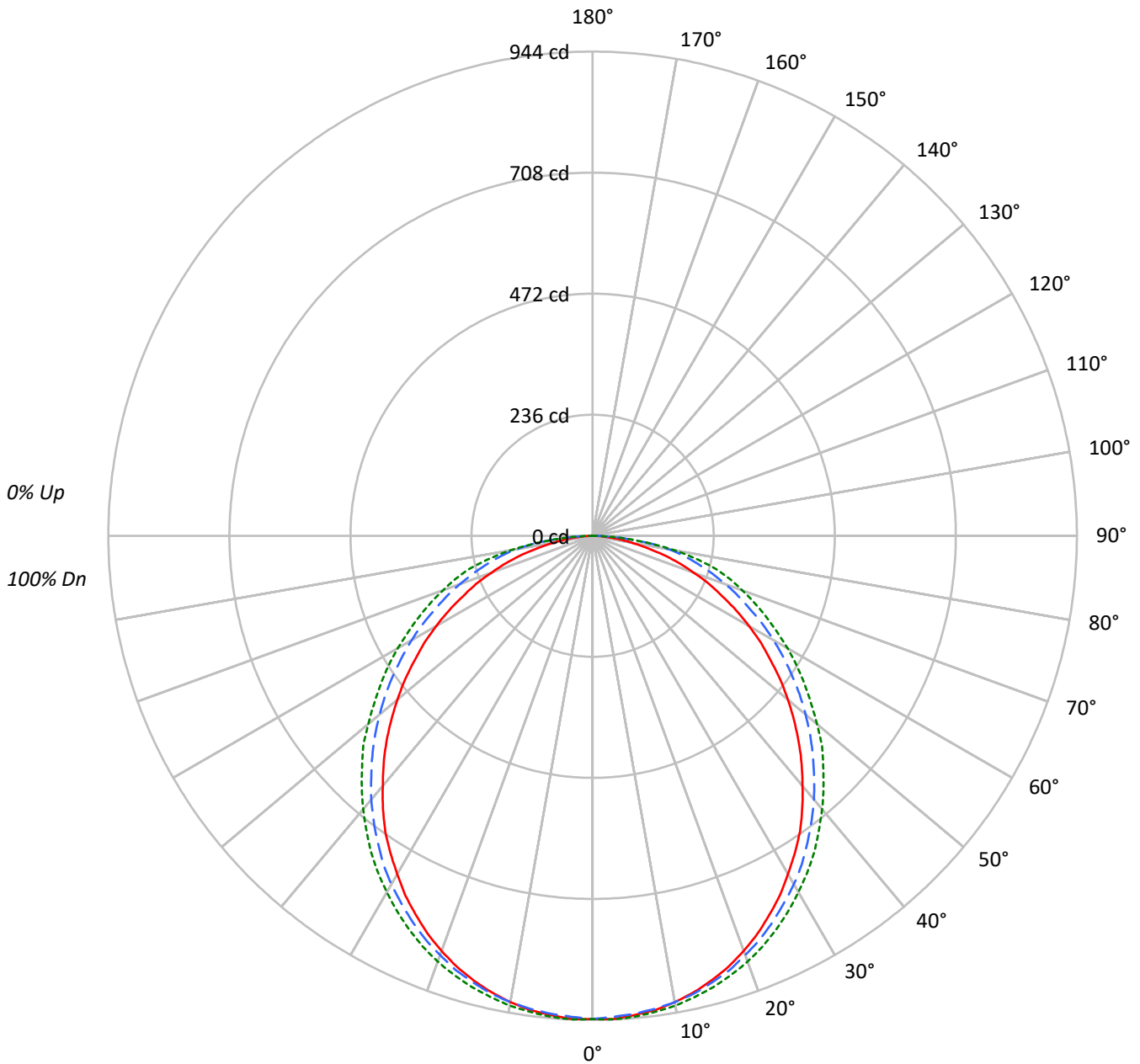
Lumens per Lamp: N/A  
Luminaire Lumens: 2682.0 lumens  
Efficiency: N/A  
Efficacy: 116.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	1330	1330	1330
5°	1329	1325	1334
10°	1323	1323	1333
15°	1311	1317	1331
20°	1294	1306	1327
25°	1270	1293	1319
30°	1241	1279	1308
35°	1214	1258	1298
40°	1172	1237	1282
45°	1134	1212	1269
50°	1091	1190	1253
55°	1042	1168	1241
60°	993	1149	1238
65°	930	1129	1246
70°	861	1136	1280
75°	771	1157	1352
80°	623	1226	1322
85°	468	1075	1049



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.2	3.3
10°-20°	254.9	9.5
20°-30°	383.1	14.3
30°-40°	456.4	17.0
40°-50°	467.1	17.4
50°-60°	420.5	15.7
60°-70°	330.2	12.3
70°-80°	214.3	8.0
80°-90°	66.3	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°	727.2	27.1
0°-40°	1183.6	44.1
0°-60°	2071.2	77.2
0°-90°	2682.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2682.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	942	942	942	942	942	
5°	938	940	935	940	941	89
15°	897	900	901	909	911	253
25°	815	822	831	844	847	376
35°	704	713	730	748	753	440
45°	568	582	607	630	636	438
55°	423	442	474	499	504	380
65°	279	300	338	366	373	277
75°	141	169	212	241	248	150
85°	29	54	66	65	65	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	942.2	942.2	942.2	942.2	942.2
2.5°	943.1	943.1	938.8	943.1	943.9
5°	937.9	939.7	935.4	940.5	941.3
7.5°	932.8	932.8	930.2	935.4	936.3
10°	923.5	924.3	923.5	929.4	930.2
12.5°	911.6	913.2	914.1	920.1	920.9
15°	897.1	899.7	901.3	909.0	910.7
17.5°	880.9	883.4	887.6	896.2	897.9
20°	861.3	864.7	869.8	880.9	883.4
22.5°	840.0	843.4	851.9	862.1	866.4
25°	815.3	822.1	830.6	844.2	846.8
27.5°	790.5	796.5	807.6	822.1	825.5
30°	761.6	770.9	784.6	799.1	802.5
32.5°	733.5	742.8	759.0	774.4	778.6
35°	704.5	713.0	730.1	747.9	753.1
37.5°	671.3	682.4	701.1	719.0	724.1
40°	636.4	650.0	671.3	690.1	696.0
42.5°	603.1	617.6	638.9	659.4	666.1
45°	568.2	581.9	607.4	630.4	635.6
47.5°	532.4	547.8	575.0	598.0	606.5
50°	496.7	512.9	541.8	565.7	570.8
52.5°	460.9	477.9	508.6	534.1	536.7
55°	423.4	442.2	474.5	499.2	504.4
57.5°	389.3	405.5	440.4	466.0	471.9
60°	351.9	369.7	407.2	431.1	438.7
62.5°	316.0	334.8	374.0	397.8	404.6
65°	278.6	299.9	338.2	366.3	373.1
67.5°	246.2	266.7	307.5	334.8	341.6
70°	208.7	231.8	275.2	303.3	310.1
72.5°	176.3	200.2	243.7	270.9	281.1
75°	141.4	168.6	212.2	241.1	247.9
77.5°	107.4	138.9	183.1	205.3	205.3
80°	76.7	109.9	150.8	161.0	162.7
82.5°	50.3	82.6	111.6	110.8	110.8
85°	28.9	53.7	66.4	64.8	64.8
87.5°	11.1	22.2	23.8	23.8	23.0
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)