

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: P733916

Luminaire Tested: **24FCZ2-30-B2750-W2D-CA125-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P733916  
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-CA125-2700K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT  
AND RIBBED LENS, WITH, CA125 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

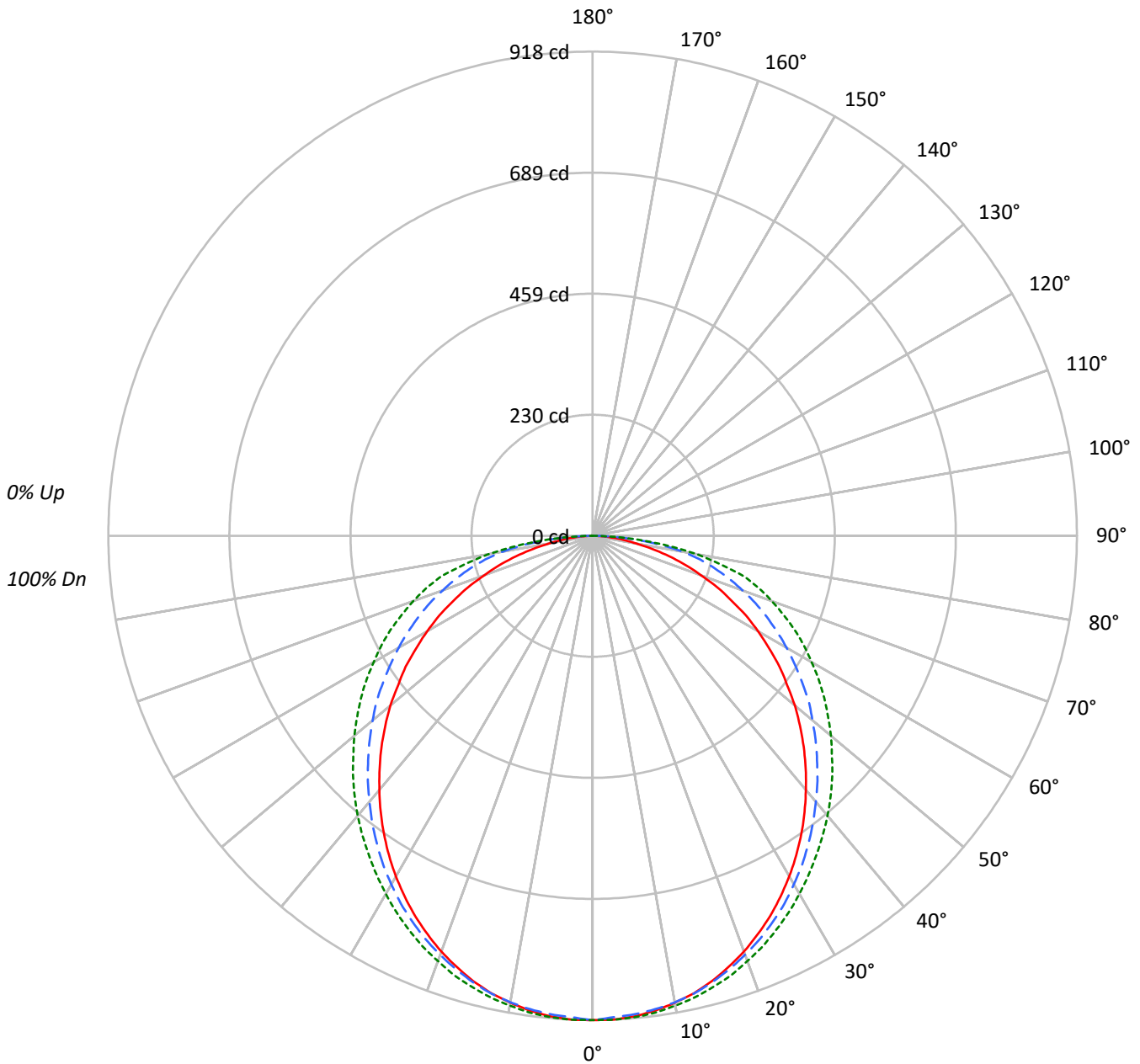
Lumens per Lamp: N/A  
Luminaire Lumens: 2735.0 lumens  
Efficiency: N/A  
Efficacy: 118.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	1296	1296	1296
5°	1296	1291	1298
10°	1289	1287	1296
15°	1278	1280	1294
20°	1260	1270	1289
25°	1240	1258	1283
30°	1215	1244	1278
35°	1189	1228	1274
40°	1159	1212	1276
45°	1129	1201	1283
50°	1098	1194	1295
55°	1065	1193	1318
60°	1023	1198	1353
65°	969	1216	1411
70°	900	1247	1492
75°	821	1309	1617
80°	675	1409	1617
85°	517	1300	1389



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.8	3.2
10°-20°	247.9	9.1
20°-30°	373.1	13.6
30°-40°	447.1	16.3
40°-50°	466.0	17.0
50°-60°	433.5	15.9
60°-70°	357.0	13.1
70°-80°	243.2	8.9
80°-90°	80.3	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°	707.9	25.9
0°-40°	1155.0	42.2
0°-60°	2054.5	75.1
0°-90°	2735.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2735.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	918	918	918	918	918	
5°	915	915	911	916	916	87
15°	874	875	876	884	885	246
25°	796	800	808	822	824	366
35°	690	698	713	732	739	431
45°	566	578	602	632	643	436
55°	433	447	485	523	536	386
65°	290	315	364	407	423	288
75°	151	184	240	283	297	159
85°	32	62	80	86	86	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	918.3	918.3	918.3	918.3	918.3
2.5°	918.3	918.3	913.7	918.3	918.3
5°	914.6	914.6	910.9	915.6	916.4
7.5°	908.2	909.2	905.5	910.9	911.9
10°	899.1	900.0	898.2	903.7	904.6
12.5°	888.2	889.0	889.0	895.4	896.4
15°	874.4	875.4	876.3	884.5	885.4
17.5°	857.1	859.9	861.7	871.8	873.5
20°	838.9	841.6	845.3	856.1	858.0
22.5°	817.9	821.5	827.9	839.8	842.5
25°	796.0	799.6	807.9	821.5	824.2
27.5°	771.3	776.8	786.8	801.5	805.1
30°	745.8	751.2	763.1	778.6	784.1
32.5°	718.4	725.7	739.3	756.7	762.2
35°	690.0	698.3	712.9	732.1	739.3
37.5°	660.0	669.1	686.4	707.4	716.5
40°	629.0	639.9	658.1	682.8	692.8
42.5°	597.8	608.0	630.7	657.2	668.1
45°	565.9	577.8	601.6	631.6	642.6
47.5°	533.0	544.9	573.2	605.2	615.2
50°	500.2	512.1	544.0	577.8	589.7
52.5°	464.6	480.1	516.6	550.4	562.3
55°	432.7	447.2	484.7	523.0	535.8
57.5°	396.2	413.4	454.6	494.7	508.4
60°	362.4	380.7	424.4	465.5	479.2
62.5°	327.7	347.8	394.3	436.3	451.8
65°	290.2	314.9	364.2	407.1	422.6
67.5°	256.4	282.1	334.1	377.9	391.5
70°	218.2	249.2	302.1	346.0	361.5
72.5°	185.3	216.3	272.0	314.9	330.4
75°	150.6	184.4	240.1	283.0	296.6
77.5°	116.0	153.4	209.0	241.9	246.4
80°	83.1	122.3	173.4	192.6	199.0
82.5°	58.4	94.1	127.8	140.6	144.2
85°	31.9	62.0	80.3	85.8	85.8
87.5°	13.6	26.5	31.9	32.9	33.8
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)