

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: P733986

Luminaire Tested: **24FCZ2-30-S-B2750-W2D-CA08-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P733986  
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-CA08-2700K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT  
AND SMOOTH LENS, WITH, CA08 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

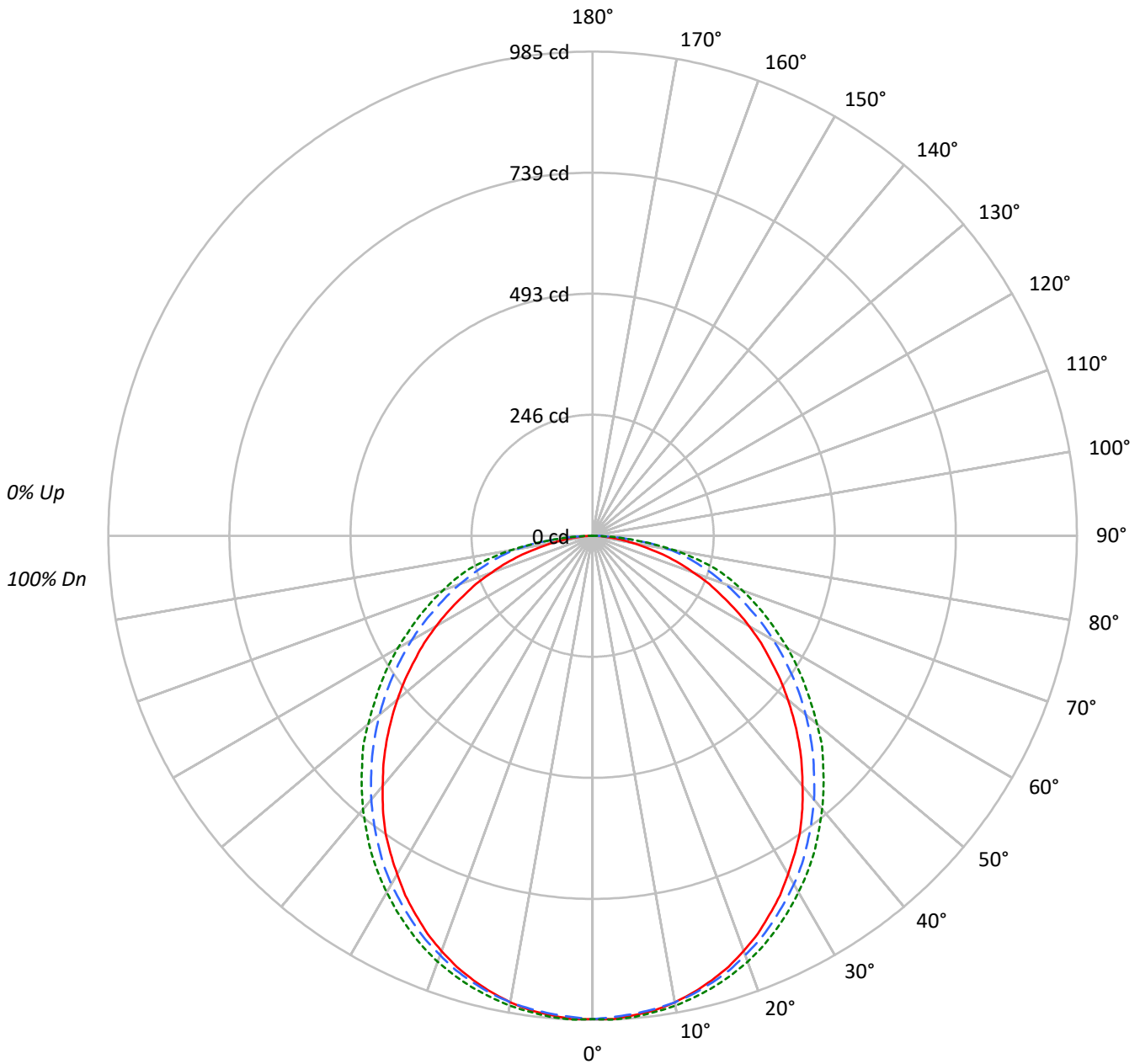
Lumens per Lamp: N/A  
Luminaire Lumens: 2799.0 lumens  
Efficiency: N/A  
Efficacy: 121.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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					20					
RC	80					70					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°	1388	1388	1388
5°	1387	1383	1392
10°	1381	1381	1391
15°	1368	1374	1389
20°	1350	1363	1385
25°	1325	1350	1376
30°	1295	1334	1365
35°	1267	1313	1354
40°	1224	1291	1338
45°	1184	1265	1324
50°	1138	1242	1308
55°	1087	1218	1295
60°	1036	1199	1292
65°	971	1179	1300
70°	899	1185	1335
75°	805	1207	1411
80°	650	1279	1380
85°	489	1122	1095



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.1	3.3
10°-20°	266.0	9.5
20°-30°	399.8	14.3
30°-40°	476.3	17.0
40°-50°	487.5	17.4
50°-60°	438.8	15.7
60°-70°	344.6	12.3
70°-80°	223.7	8.0
80°-90°	69.2	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°	758.9	27.1
0°-40°	1235.2	44.1
0°-60°	2161.5	77.2
0°-90°	2799.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2799.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	983	983	983	983	983	
5°	979	981	976	982	982	93
15°	936	939	941	949	950	264
25°	851	858	867	881	884	392
35°	735	744	762	781	786	459
45°	593	607	634	658	663	457
55°	442	462	495	521	526	396
65°	291	313	353	382	389	289
75°	148	176	221	252	259	156
85°	30	56	69	68	68	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	983.4	983.4	983.4	983.4	983.4
2.5°	984.2	984.2	979.7	984.2	985.1
5°	978.9	980.7	976.2	981.5	982.4
7.5°	973.5	973.5	970.8	976.2	977.1
10°	963.7	964.6	963.7	970.0	970.8
12.5°	951.3	953.0	954.0	960.2	961.1
15°	936.2	938.9	940.6	948.6	950.5
17.5°	919.3	922.0	926.4	935.3	937.1
20°	898.8	902.4	907.7	919.3	922.0
22.5°	876.7	880.2	889.1	899.7	904.2
25°	850.8	857.9	866.8	881.1	883.7
27.5°	825.0	831.2	842.8	857.9	861.6
30°	794.8	804.6	818.8	833.9	837.5
32.5°	765.5	775.2	792.1	808.2	812.6
35°	735.3	744.2	761.9	780.6	785.9
37.5°	700.6	712.1	731.7	750.4	755.7
40°	664.1	678.4	700.6	720.2	726.4
42.5°	629.4	644.5	666.8	688.1	695.2
45°	593.0	607.3	633.9	657.9	663.3
47.5°	555.6	571.7	600.1	624.1	633.0
50°	518.3	535.3	565.5	590.3	595.7
52.5°	481.0	498.7	530.8	557.4	560.1
55°	441.9	461.5	495.2	521.0	526.4
57.5°	406.3	423.2	459.6	486.3	492.5
60°	367.2	385.8	424.9	449.9	457.8
62.5°	329.8	349.4	390.3	415.2	422.3
65°	290.7	313.0	353.0	382.3	389.4
67.5°	257.0	278.3	320.9	349.4	356.5
70°	217.8	241.9	287.2	316.5	323.6
72.5°	184.0	208.9	254.3	282.7	293.4
75°	147.6	176.0	221.4	251.6	258.7
77.5°	112.0	144.9	191.1	214.2	214.2
80°	80.0	114.7	157.4	168.1	169.8
82.5°	52.5	86.2	116.4	115.6	115.6
85°	30.2	56.0	69.3	67.6	67.6
87.5°	11.6	23.1	24.9	24.9	24.0
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)