

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: P732668

Luminaire Tested: **14FCZ2-29-B2750-W2D-CA125-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732668
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275502)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-29-B2750-W2D-CA125-3500K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND RIBBED LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

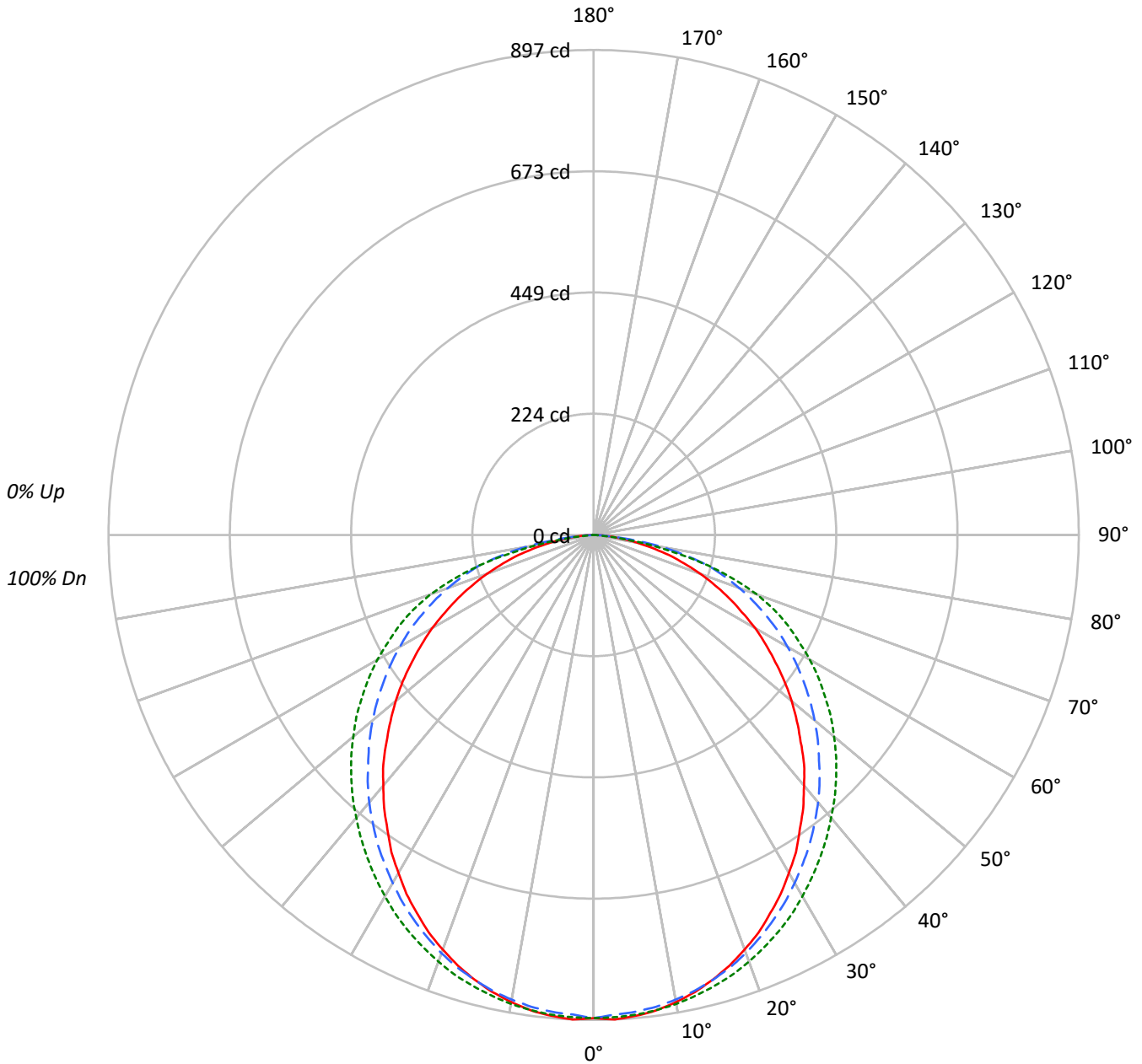
Lumens per Lamp: N/A
Luminaire Lumens: 2594.0 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
Input Voltage (V): NR
Input Current (A_{in}): 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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83																			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	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	79	68	60	53	66	58	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32																			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29																			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2523	2523	2523
5°	2530	2509	2524
10°	2515	2502	2525
15°	2488	2489	2524
20°	2451	2472	2523
25°	2405	2448	2521
30°	2353	2423	2515
35°	2290	2402	2513
40°	2229	2379	2517
45°	2161	2352	2530
50°	2098	2342	2547
55°	2018	2335	2570
60°	1947	2338	2606
65°	1846	2345	2646
70°	1733	2363	2644
75°	1570	2384	2392
80°	1289	2058	1700
85°	955	975	392



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.6	3.3
10°-20°	241.6	9.3
20°-30°	363.9	14.0
30°-40°	436.7	16.8
40°-50°	455.1	17.5
50°-60°	421.3	16.2
60°-70°	340.4	13.1
70°-80°	207.5	8.0
80°-90°	42.8	1.7
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°	690.0	26.6
0°-40°	1126.7	43.4
0°-60°	2003.2	77.2
0°-90°	2594.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2594.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	894	894	894	894	894	
5°	893	891	886	892	891	85
15°	852	852	852	864	864	240
25°	772	777	786	806	809	356
35°	665	675	697	722	729	416
45°	541	558	589	622	634	418
55°	410	432	474	511	522	367
65°	276	304	351	386	396	273
75°	144	176	219	222	219	151
85°	30	44	30	17	12	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	893.7	893.7	893.7	893.7	893.7
2.5°	897.2	894.3	887.9	894.3	893.0
5°	893.0	890.8	885.5	891.9	890.8
7.5°	887.3	884.9	880.3	887.9	886.6
10°	877.4	876.3	872.8	881.6	880.9
12.5°	865.9	865.3	863.6	873.4	872.8
15°	851.5	851.9	851.9	863.6	863.6
17.5°	835.2	836.3	838.7	851.5	853.2
20°	816.1	818.5	823.1	837.6	839.8
22.5°	796.5	798.3	805.1	822.5	824.9
25°	772.2	776.8	786.0	805.8	809.3
27.5°	749.1	753.0	765.8	786.0	791.9
30°	721.8	728.2	743.3	765.3	771.7
32.5°	695.9	702.7	720.1	745.6	751.3
35°	664.7	675.0	697.0	722.5	729.3
37.5°	636.3	646.0	671.0	698.7	706.9
40°	605.0	617.2	645.6	675.0	683.1
42.5°	576.1	587.6	618.3	648.4	659.4
45°	541.4	557.7	589.3	622.3	633.9
47.5°	509.6	525.8	562.3	597.5	608.0
50°	477.7	495.1	533.3	569.8	580.1
52.5°	444.8	463.4	504.3	540.8	553.0
55°	410.0	431.5	474.4	511.3	522.3
57.5°	377.1	399.1	444.8	482.3	493.3
60°	344.8	367.4	414.2	450.0	461.6
62.5°	308.9	335.5	384.1	419.3	428.0
65°	276.4	303.7	351.1	386.3	396.2
67.5°	242.4	271.8	319.3	351.6	361.0
70°	210.0	240.6	286.3	316.4	320.4
72.5°	175.3	206.5	252.7	271.8	271.8
75°	144.0	175.8	218.6	222.1	219.3
77.5°	109.9	145.2	172.9	165.9	159.1
80°	79.3	114.0	126.6	114.0	104.6
82.5°	53.2	82.6	76.3	60.7	53.8
85°	29.5	44.0	30.1	16.7	12.1
87.5°	11.0	9.9	2.9	2.9	2.9
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)