

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: P732666

Luminaire Tested: **14FCZ2-29-B2750-W2D-CA125-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732666
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-CA125-2700K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND RIBBED LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

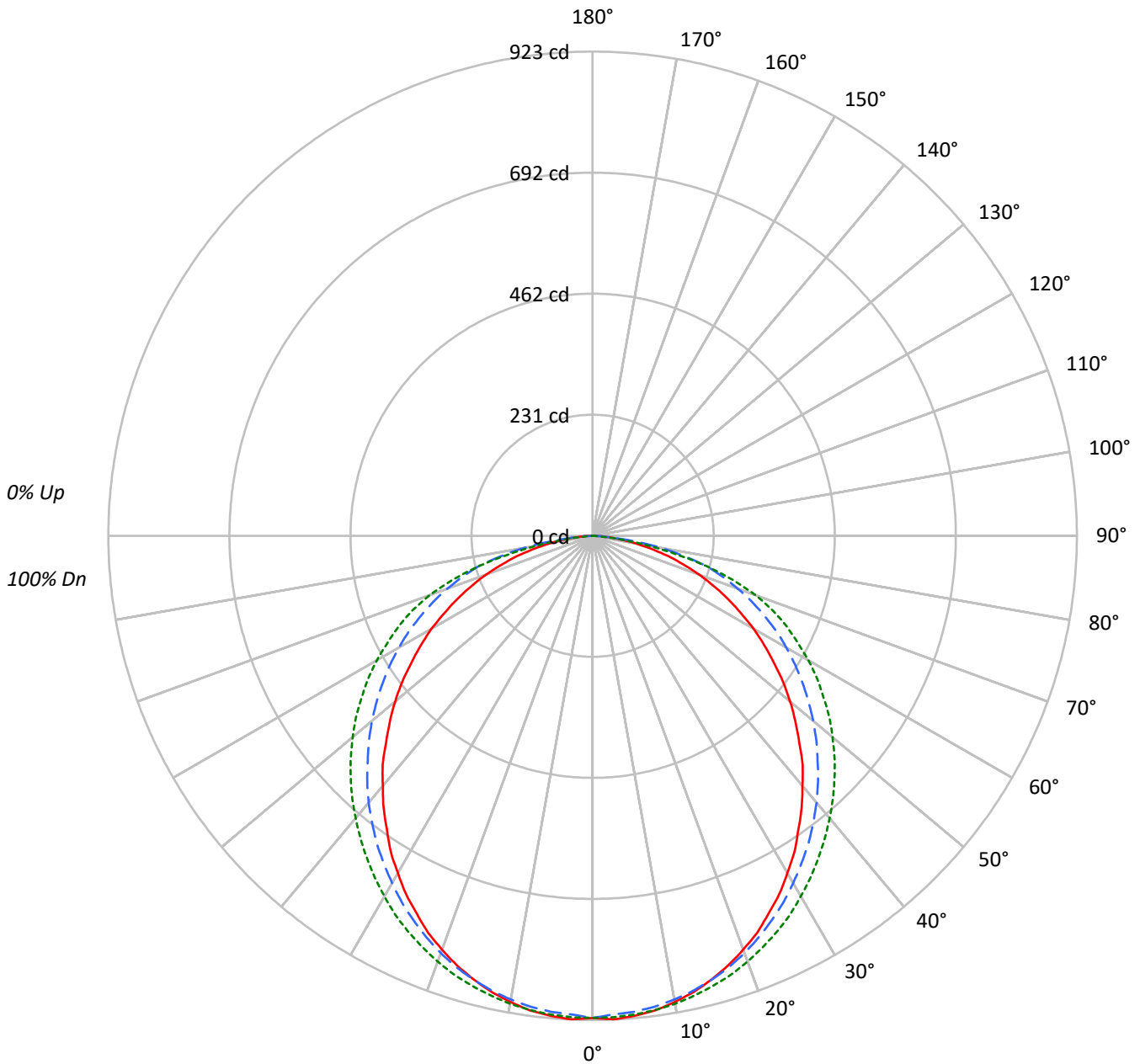
Lumens per Lamp: N/A
Luminaire Lumens: 2668.0 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
Input Voltage (V): NR
Input Current (Ain): 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	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°	2594	2594	2594
5°	2603	2581	2596
10°	2586	2573	2597
15°	2559	2560	2596
20°	2521	2543	2595
25°	2474	2518	2592
30°	2420	2492	2587
35°	2356	2470	2585
40°	2293	2447	2589
45°	2223	2420	2603
50°	2157	2409	2620
55°	2075	2401	2644
60°	2002	2405	2680
65°	1899	2412	2722
70°	1783	2430	2719
75°	1615	2453	2459
80°	1326	2116	1749
85°	981	1004	402



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.0	3.3
10°-20°	248.4	9.3
20°-30°	374.3	14.0
30°-40°	449.1	16.8
40°-50°	468.1	17.5
50°-60°	433.4	16.2
60°-70°	350.1	13.1
70°-80°	213.5	8.0
80°-90°	44.1	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°	709.7	26.6
0°-40°	1158.8	43.4
0°-60°	2060.3	77.2
0°-90°	2668.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2668.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	919	919	919	919	919	
5°	918	916	911	917	916	87
15°	876	876	876	888	888	247
25°	794	799	808	829	832	366
35°	684	694	717	743	750	428
45°	557	574	606	640	652	430
55°	422	444	488	526	537	378
65°	284	312	361	397	408	281
75°	148	181	225	228	226	156
85°	30	45	31	17	12	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	919.1	919.1	919.1	919.1	919.1
2.5°	922.8	919.8	913.3	919.8	918.5
5°	918.5	916.2	910.8	917.3	916.2
7.5°	912.6	910.1	905.4	913.3	911.9
10°	902.4	901.3	897.7	906.7	906.0
12.5°	890.7	890.0	888.2	898.3	897.7
15°	875.7	876.2	876.2	888.2	888.2
17.5°	859.0	860.2	862.6	875.7	877.5
20°	839.4	841.8	846.6	861.5	863.8
22.5°	819.2	821.0	828.1	845.9	848.4
25°	794.2	798.9	808.4	828.7	832.3
27.5°	770.4	774.5	787.6	808.4	814.5
30°	742.4	749.0	764.5	787.1	793.7
32.5°	715.7	722.8	740.6	766.8	772.7
35°	683.6	694.3	716.9	743.1	750.1
37.5°	654.5	664.5	690.2	718.7	727.0
40°	622.2	634.8	664.0	694.3	702.6
42.5°	592.6	604.4	636.0	666.9	678.2
45°	556.9	573.6	606.2	640.1	652.0
47.5°	524.1	540.8	578.3	614.5	625.3
50°	491.3	509.2	548.5	586.0	596.7
52.5°	457.4	476.6	518.7	556.2	568.8
55°	421.7	443.9	487.9	525.9	537.2
57.5°	387.8	410.4	457.4	496.1	507.4
60°	354.6	377.8	426.0	462.9	474.8
62.5°	317.7	345.1	395.0	431.2	440.2
65°	284.3	312.3	361.1	397.3	407.5
67.5°	249.3	279.6	328.4	361.6	371.3
70°	216.0	247.5	294.5	325.4	329.5
72.5°	180.3	212.4	259.9	279.6	279.6
75°	148.1	180.8	224.9	228.5	225.5
77.5°	113.0	149.4	177.9	170.7	163.6
80°	81.6	117.3	130.2	117.3	107.6
82.5°	54.7	85.0	78.5	62.4	55.4
85°	30.3	45.2	31.0	17.2	12.4
87.5°	11.3	10.2	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)