

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: P732667

Luminaire Tested: **14FCZ2-29-B2750-W2D-CA125-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732667
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-CA125-3000K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND RIBBED LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

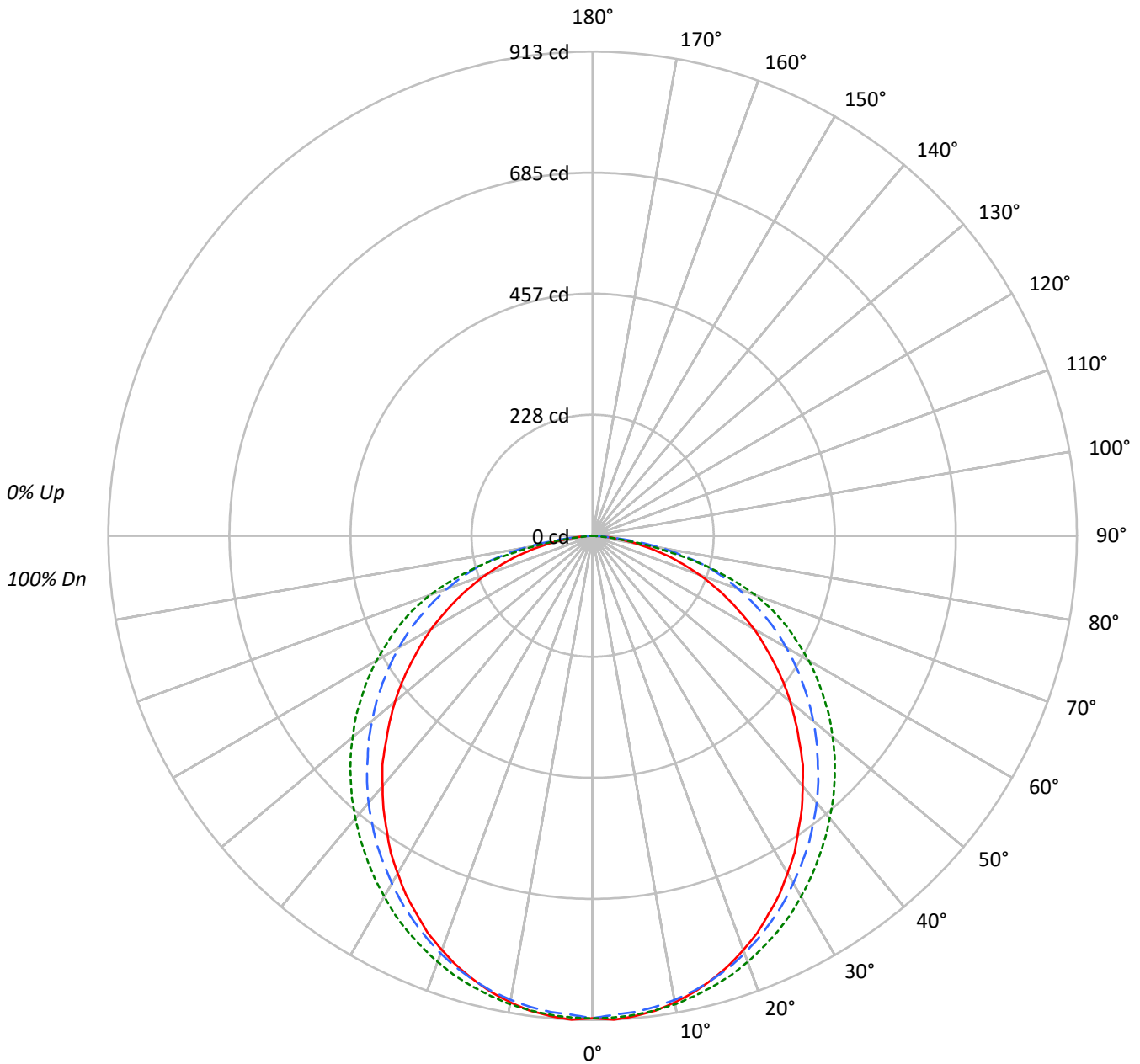
Lumens per Lamp: N/A
Luminaire Lumens: 2641.0 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
Input Voltage (V): NR
Input Current (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									
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°	2568	2568	2568
5°	2576	2555	2570
10°	2560	2547	2571
15°	2533	2535	2569
20°	2496	2517	2568
25°	2448	2493	2566
30°	2395	2467	2561
35°	2332	2445	2559
40°	2269	2422	2563
45°	2200	2395	2576
50°	2136	2384	2594
55°	2055	2377	2617
60°	1982	2381	2653
65°	1879	2388	2694
70°	1764	2406	2692
75°	1599	2428	2434
80°	1312	2095	1731
85°	972	991	398



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.1	3.3
10°-20°	245.9	9.3
20°-30°	370.5	14.0
30°-40°	444.6	16.8
40°-50°	463.4	17.5
50°-60°	429.0	16.2
60°-70°	346.6	13.1
70°-80°	211.3	8.0
80°-90°	43.6	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°	702.5	26.6
0°-40°	1147.1	43.4
0°-60°	2039.5	77.2
0°-90°	2641.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2641.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	910	910	910	910	910	
5°	909	907	902	908	907	86
15°	867	867	867	879	879	244
25°	786	791	800	820	824	362
35°	677	687	710	736	742	424
45°	551	568	600	634	645	426
55°	418	439	483	521	532	374
65°	281	309	358	393	403	278
75°	147	179	223	226	223	154
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°	909.8	909.8	909.8	909.8	909.8
2.5°	913.4	910.5	904.0	910.5	909.2
5°	909.2	906.9	901.6	908.1	906.9
7.5°	903.4	900.9	896.2	904.0	902.7
10°	893.3	892.2	888.6	897.5	896.9
12.5°	881.6	881.0	879.2	889.3	888.6
15°	866.9	867.4	867.4	879.2	879.2
17.5°	850.3	851.5	853.9	866.9	868.7
20°	830.9	833.3	838.0	852.8	855.0
22.5°	811.0	812.7	819.7	837.4	839.8
25°	786.1	790.8	800.3	820.4	823.9
27.5°	762.6	766.7	779.7	800.3	806.2
30°	734.9	741.4	756.8	779.2	785.7
32.5°	708.5	715.5	733.1	759.1	764.9
35°	676.7	687.2	709.6	735.6	742.5
37.5°	647.9	657.7	683.2	711.4	719.7
40°	615.9	628.4	657.3	687.2	695.5
42.5°	586.6	598.2	629.5	660.2	671.4
45°	551.2	567.8	600.0	633.6	645.4
47.5°	518.8	535.3	572.5	608.3	619.0
50°	486.4	504.0	543.0	580.1	590.6
52.5°	452.8	471.8	513.5	550.6	563.1
55°	417.5	439.4	483.0	520.6	531.8
57.5°	383.9	406.3	452.8	491.1	502.3
60°	351.0	374.0	421.7	458.2	470.0
62.5°	314.5	341.6	391.0	426.9	435.8
65°	281.4	309.2	357.5	393.3	403.4
67.5°	246.8	276.7	325.1	358.0	367.5
70°	213.8	245.0	291.5	322.1	326.2
72.5°	178.5	210.3	257.3	276.7	276.7
75°	146.6	179.0	222.6	226.2	223.2
77.5°	111.9	147.9	176.1	168.9	162.0
80°	80.7	116.1	128.9	116.1	106.5
82.5°	54.1	84.1	77.7	61.8	54.8
85°	30.0	44.7	30.6	17.0	12.3
87.5°	11.2	10.1	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)