

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: P732679

Luminaire Tested: **14FCZ2-29-B2750-W2D-CP250-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732679
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-CP250-4000K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND RIBBED LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

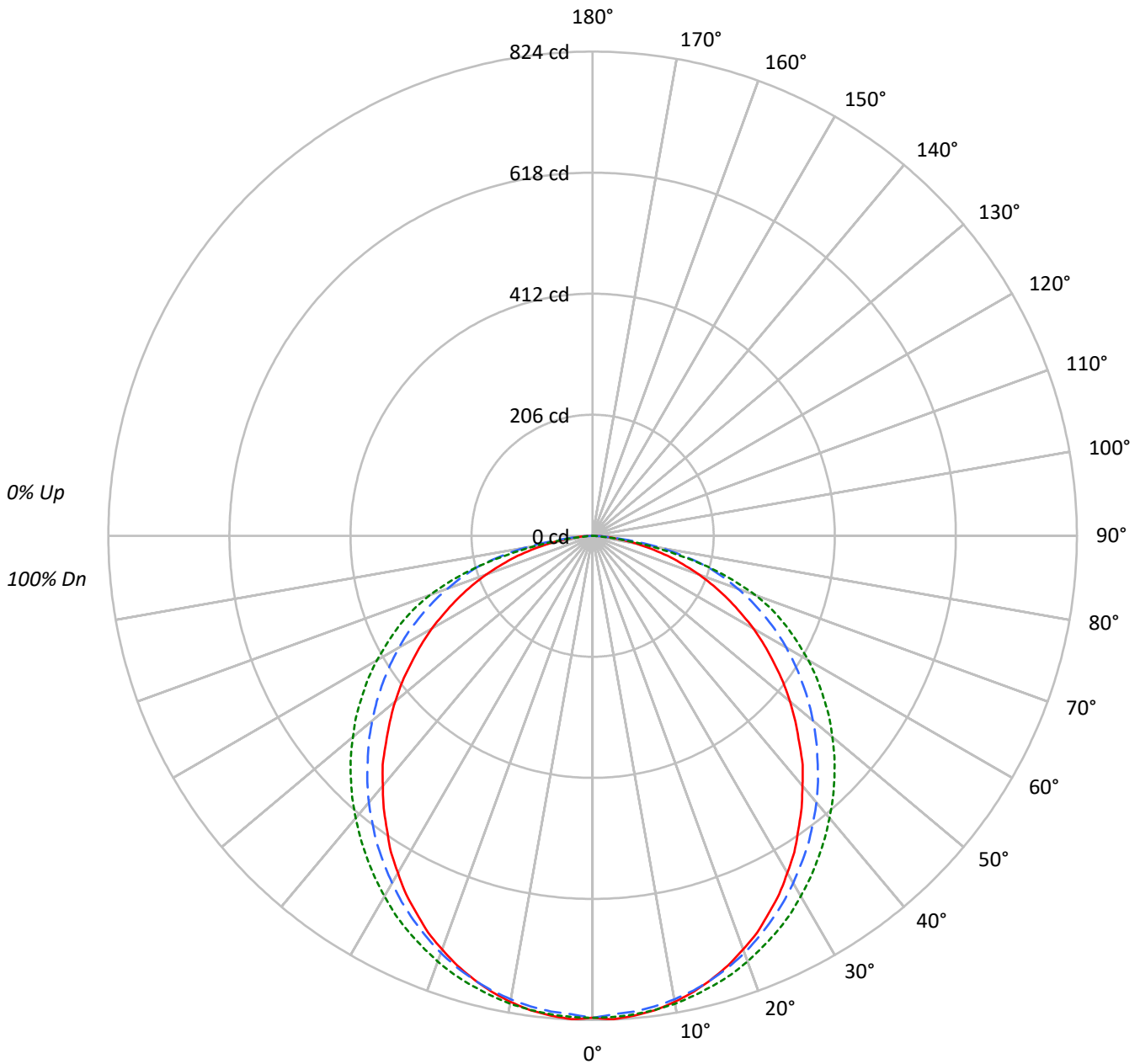
Lumens per Lamp: N/A
Luminaire Lumens: 2381.0 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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					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°	2315	2315	2315
5°	2323	2303	2317
10°	2308	2296	2318
15°	2284	2285	2316
20°	2250	2269	2316
25°	2208	2247	2313
30°	2160	2224	2309
35°	2102	2205	2307
40°	2046	2184	2310
45°	1984	2160	2323
50°	1926	2150	2338
55°	1852	2143	2359
60°	1786	2146	2392
65°	1694	2153	2429
70°	1591	2169	2427
75°	1441	2189	2195
80°	1183	1889	1560
85°	874	894	359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.6	3.3
10°-20°	221.7	9.3
20°-30°	334.0	14.0
30°-40°	400.8	16.8
40°-50°	417.8	17.5
50°-60°	386.7	16.2
60°-70°	312.5	13.1
70°-80°	190.5	8.0
80°-90°	39.3	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°	633.4	26.6
0°-40°	1034.2	43.4
0°-60°	1838.7	77.2
0°-90°	2381.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2381.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	820	820	820	820	820	
5°	820	818	813	819	818	78
15°	782	782	782	793	793	220
25°	709	713	722	740	743	327
35°	610	620	640	663	669	382
45°	497	512	541	571	582	384
55°	376	396	435	469	479	337
65°	254	279	322	355	364	251
75°	132	161	201	204	201	139
85°	27	40	28	15	11	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	820.3	820.3	820.3	820.3	820.3
2.5°	823.5	820.9	815.0	820.9	819.7
5°	819.7	817.6	812.8	818.7	817.6
7.5°	814.4	812.2	808.0	815.0	813.8
10°	805.4	804.3	801.1	809.2	808.6
12.5°	794.8	794.3	792.6	801.7	801.1
15°	781.5	782.0	782.0	792.6	792.6
17.5°	766.6	767.7	769.8	781.5	783.1
20°	749.1	751.3	755.5	768.8	770.9
22.5°	731.1	732.7	739.0	754.9	757.1
25°	708.8	713.0	721.5	739.6	742.8
27.5°	687.6	691.2	702.9	721.5	726.9
30°	662.6	668.4	682.3	702.5	708.3
32.5°	638.7	645.0	661.0	684.3	689.6
35°	610.1	619.6	639.8	663.1	669.4
37.5°	584.1	593.0	615.9	641.4	648.8
40°	555.3	566.5	592.6	619.6	627.0
42.5°	528.8	539.3	567.6	595.2	605.3
45°	497.0	511.9	541.0	571.2	581.9
47.5°	467.7	482.6	516.1	548.4	558.1
50°	438.5	454.4	489.5	523.0	532.5
52.5°	408.2	425.3	462.9	496.4	507.6
55°	376.4	396.1	435.4	469.3	479.4
57.5°	346.1	366.3	408.2	442.7	452.8
60°	316.4	337.2	380.2	413.1	423.7
62.5°	283.6	308.0	352.5	384.9	392.9
65°	253.7	278.7	322.3	354.6	363.7
67.5°	222.5	249.5	293.1	322.7	331.4
70°	192.8	220.9	262.8	290.4	294.1
72.5°	160.9	189.6	232.0	249.5	249.5
75°	132.1	161.4	200.7	203.9	201.3
77.5°	100.9	133.3	158.7	152.3	146.0
80°	72.8	104.7	116.2	104.7	96.0
82.5°	48.8	75.9	70.0	55.7	49.4
85°	27.0	40.3	27.6	15.3	11.1
87.5°	10.1	9.1	2.6	2.6	2.6
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)