

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: P732665

Luminaire Tested: **14FCZ2-29-B2750-W2D-CA08-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732665
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-CA08-5000K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RIBBED LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

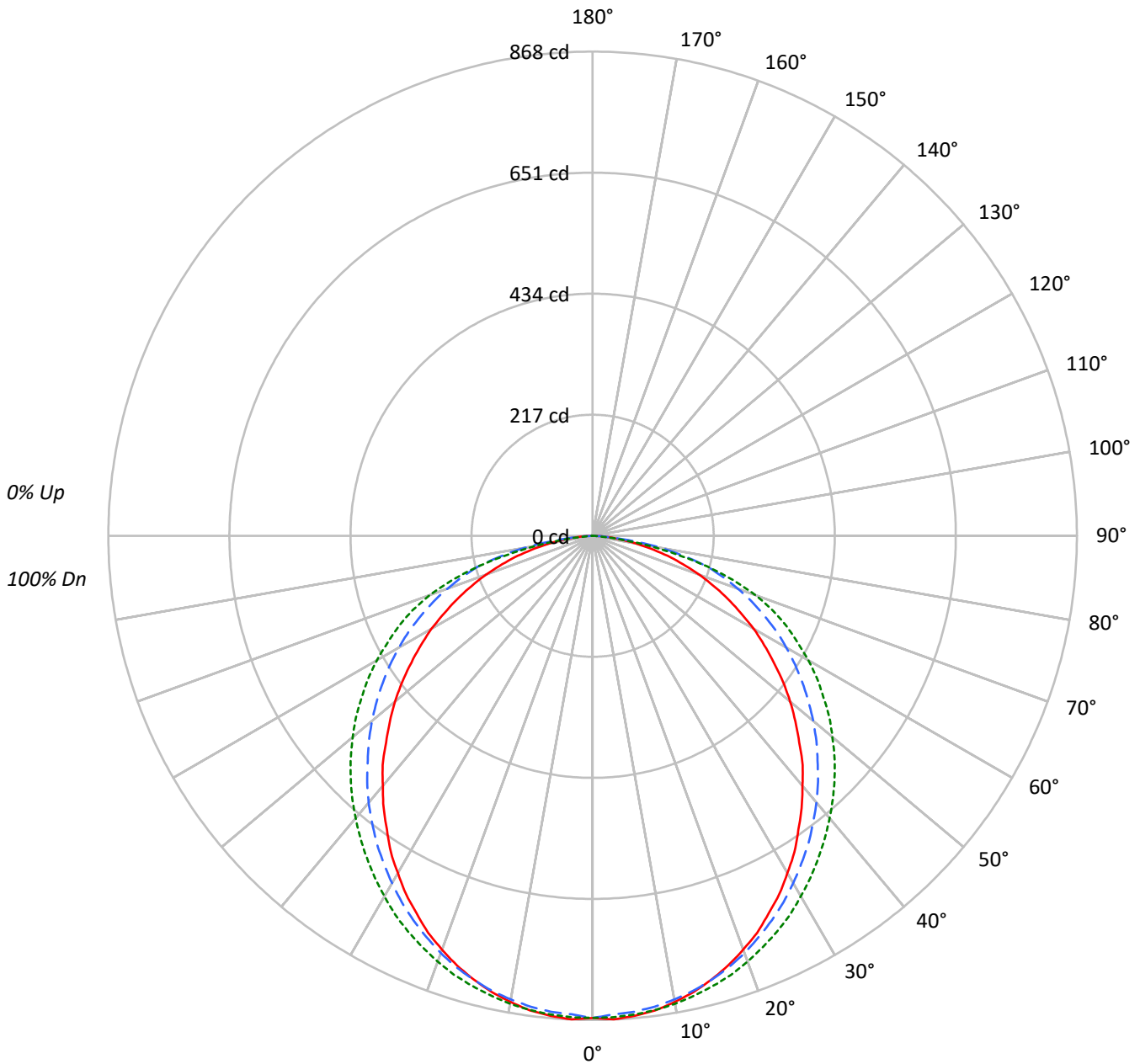
Lumens per Lamp: N/A
Luminaire Lumens: 2509.0 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	2440	2440	2440
5°	2448	2427	2441
10°	2433	2420	2442
15°	2407	2408	2441
20°	2371	2391	2440
25°	2326	2368	2438
30°	2276	2343	2433
35°	2215	2323	2431
40°	2156	2301	2435
45°	2091	2275	2448
50°	2029	2265	2464
55°	1952	2258	2486
60°	1883	2262	2521
65°	1786	2268	2559
70°	1677	2285	2558
75°	1518	2307	2313
80°	1247	1990	1645
85°	923	942	379



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.8	3.3
10°-20°	233.6	9.3
20°-30°	352.0	14.0
30°-40°	422.4	16.8
40°-50°	440.2	17.5
50°-60°	407.5	16.2
60°-70°	329.3	13.1
70°-80°	200.8	8.0
80°-90°	41.4	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°	667.4	26.6
0°-40°	1089.8	43.4
0°-60°	1937.5	77.2
0°-90°	2509.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2509.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	864	864	864	864	864	
5°	864	862	856	863	862	82
15°	824	824	824	835	835	232
25°	747	751	760	779	783	344
35°	643	653	674	699	705	403
45°	524	539	570	602	613	405
55°	397	417	459	495	505	355
65°	267	294	340	374	383	264
75°	139	170	212	215	212	146
85°	28	42	29	16	12	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	864.4	864.4	864.4	864.4	864.4
2.5°	867.8	865.0	858.8	865.0	863.8
5°	863.8	861.6	856.5	862.7	861.6
7.5°	858.2	855.9	851.4	858.8	857.6
10°	848.7	847.6	844.2	852.7	852.1
12.5°	837.6	837.0	835.3	844.8	844.2
15°	823.6	824.0	824.0	835.3	835.3
17.5°	807.8	808.9	811.2	823.6	825.3
20°	789.4	791.7	796.1	810.2	812.3
22.5°	770.4	772.1	778.7	795.5	797.8
25°	746.9	751.3	760.3	779.4	782.7
27.5°	724.5	728.4	740.7	760.3	766.0
30°	698.2	704.3	719.0	740.2	746.4
32.5°	673.1	679.7	696.5	721.1	726.7
35°	642.9	652.9	674.2	698.8	705.4
37.5°	615.5	624.9	649.0	675.8	683.7
40°	585.1	597.0	624.4	652.9	660.8
42.5°	557.3	568.3	598.1	627.2	637.8
45°	523.7	539.4	570.0	601.9	613.2
47.5°	492.9	508.6	543.9	577.9	588.1
50°	462.1	478.9	515.8	551.1	561.1
52.5°	430.2	448.2	487.8	523.1	534.9
55°	396.6	417.4	458.8	494.6	505.2
57.5°	364.7	386.0	430.2	466.5	477.2
60°	333.5	355.3	400.6	435.3	446.5
62.5°	298.8	324.5	371.5	405.5	414.0
65°	267.4	293.7	339.6	373.7	383.2
67.5°	234.4	262.9	308.8	340.1	349.2
70°	203.2	232.7	276.9	306.0	309.9
72.5°	169.6	199.8	244.4	262.9	262.9
75°	139.2	170.0	211.5	214.9	212.1
77.5°	106.3	140.5	167.3	160.5	153.9
80°	76.7	110.3	122.4	110.3	101.2
82.5°	51.4	79.9	73.8	58.7	52.1
85°	28.5	42.5	29.1	16.2	11.7
87.5°	10.6	9.5	2.8	2.8	2.8
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)