

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: P732624

Luminaire Tested: **14FCZ2-25-S-B2750-W2D-CP187-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732624
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275670)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-25-S-B2750-W2D-CP187-4000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND SMOOTH LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

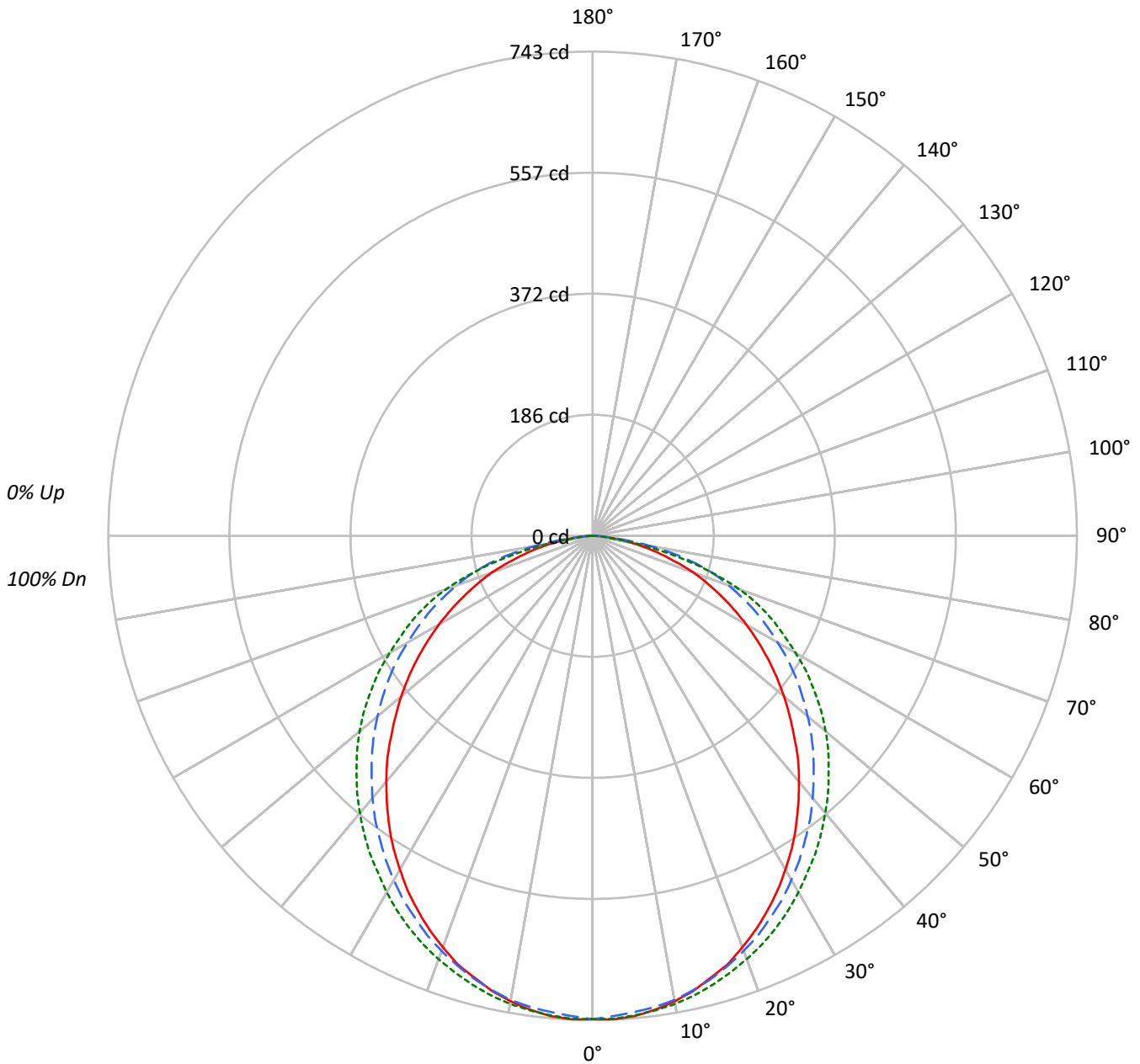
Lumens per Lamp: N/A
Luminaire Lumens: 2078.0 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 19
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	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84																			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70																			
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58																			
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50																			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43																			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38																			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33																			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30																			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27																			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2094	2094	2094
5°	2096	2079	2093
10°	2079	2073	2091
15°	2051	2056	2083
20°	2018	2036	2077
25°	1976	2012	2070
30°	1927	1988	2059
35°	1875	1960	2052
40°	1815	1936	2047
45°	1748	1913	2044
50°	1683	1891	2049
55°	1612	1876	2043
60°	1536	1849	2030
65°	1445	1844	2030
70°	1361	1829	1972
75°	1180	1787	1685
80°	954	1440	1123
85°	635	499	337



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	3.4
10°-20°	199.3	9.6
20°-30°	299.0	14.4
30°-40°	356.7	17.2
40°-50°	368.7	17.7
50°-60°	336.7	16.2
60°-70°	264.9	12.7
70°-80°	154.2	7.4
80°-90°	28.4	1.4
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°	568.4	27.4
0°-40°	925.0	44.5
0°-60°	1630.4	78.5
0°-90°	2078.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2078.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	742	742	742	742	742	
5°	740	738	734	740	739	70
15°	702	703	704	713	713	198
25°	635	638	646	661	665	292
35°	544	551	569	590	596	340
45°	438	452	479	506	512	338
55°	328	345	381	409	415	293
65°	216	239	276	298	304	215
75°	108	134	164	161	154	115
85°	20	28	15	12	10	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	741.8	741.8	741.8	741.8	741.8
2.5°	742.8	740.8	737.7	742.8	741.8
5°	739.8	737.7	733.6	739.8	738.7
7.5°	733.6	731.5	729.4	735.6	734.6
10°	725.3	724.3	723.3	730.5	729.4
12.5°	715.1	715.1	714.0	722.2	722.2
15°	701.7	702.7	703.7	712.9	712.9
17.5°	689.3	688.3	691.3	701.7	702.7
20°	671.8	673.8	677.9	690.3	691.3
22.5°	654.2	656.3	663.5	675.9	678.9
25°	634.6	637.8	646.0	661.4	664.6
27.5°	614.1	618.2	629.5	646.0	649.0
30°	591.3	597.5	609.9	628.4	631.6
32.5°	568.7	574.9	590.3	608.9	613.0
35°	544.0	551.2	568.7	590.3	595.5
37.5°	518.2	527.5	548.2	569.7	575.9
40°	492.5	502.8	525.4	548.2	555.4
42.5°	466.7	477.1	501.7	527.5	534.8
45°	437.8	452.3	479.1	505.9	512.1
47.5°	410.0	425.6	455.4	482.1	490.5
50°	383.3	398.7	430.6	458.5	466.7
52.5°	355.5	371.9	405.9	434.8	442.0
55°	327.6	345.2	381.3	409.0	415.2
57.5°	299.8	318.4	355.5	382.3	389.5
60°	272.1	291.6	327.6	354.4	359.5
62.5°	244.2	264.7	301.9	325.6	330.8
65°	216.4	239.0	276.1	297.8	304.0
67.5°	189.6	212.2	248.3	268.9	274.1
70°	164.9	185.5	221.6	237.0	239.0
72.5°	133.9	159.7	194.7	203.0	197.8
75°	108.2	133.9	163.9	160.7	154.5
77.5°	82.4	108.2	127.8	117.4	109.2
80°	58.7	84.5	88.6	73.1	69.1
82.5°	38.1	58.7	49.5	38.1	30.9
85°	19.6	27.8	15.4	12.4	10.4
87.5°	6.2	4.2	2.0	2.0	1.0
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)