

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: P732486

Luminaire Tested: **14FCZ2-20-S-B2750-W2D-CA08-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732486
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: 14FCZ2-20-S-B2750-W2D-CA08-2700K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND SMOOTH LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

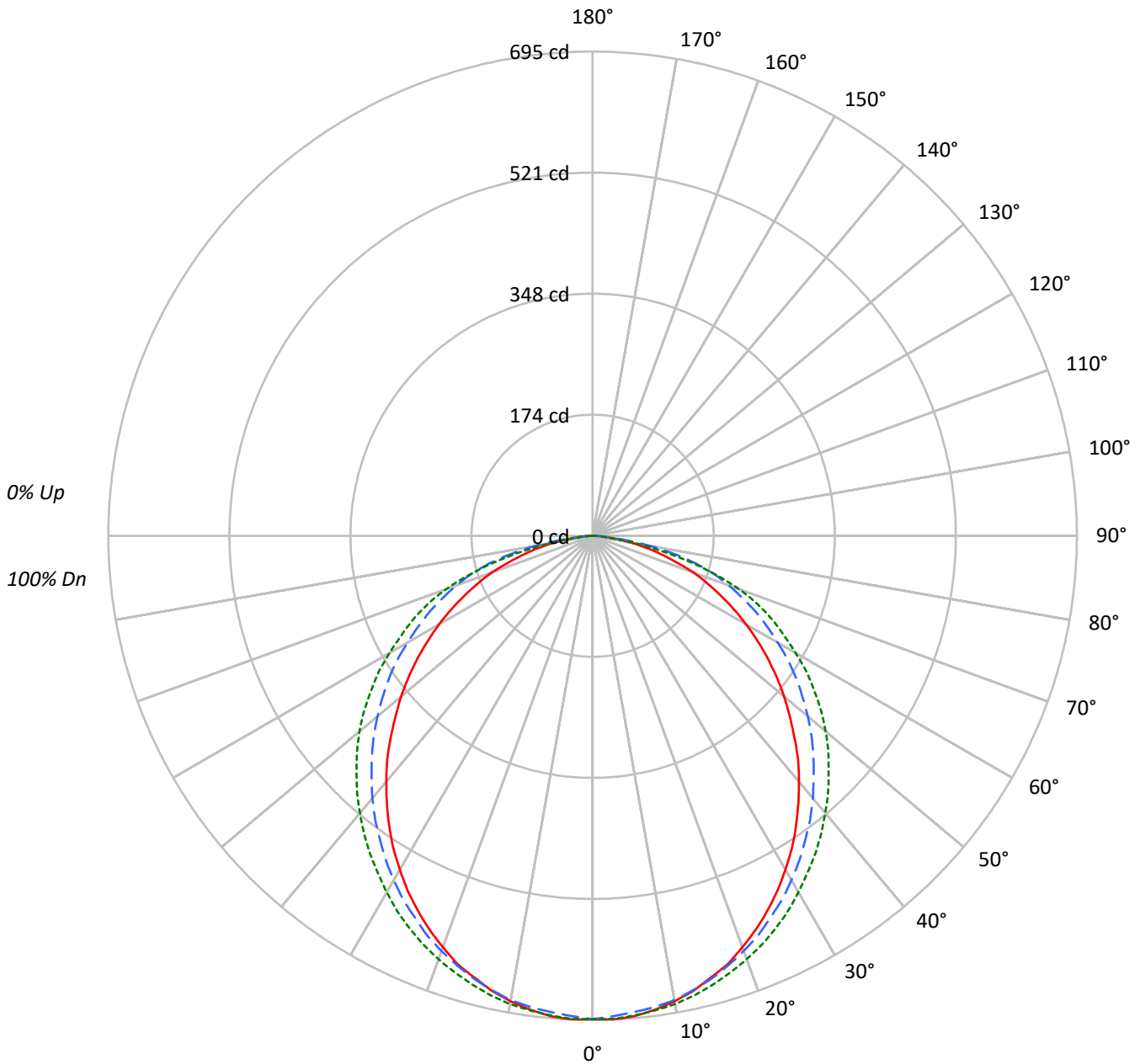
Lumens per Lamp: N/A
Luminaire Lumens: 1944.0 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 16
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°	1959	1959	1959
5°	1961	1945	1958
10°	1945	1939	1956
15°	1918	1924	1949
20°	1888	1905	1943
25°	1849	1882	1936
30°	1803	1860	1926
35°	1754	1834	1920
40°	1698	1811	1914
45°	1635	1789	1912
50°	1575	1769	1917
55°	1508	1755	1911
60°	1437	1730	1899
65°	1352	1725	1900
70°	1273	1711	1845
75°	1104	1672	1577
80°	892	1348	1050
85°	593	466	314



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.5	3.4
10°-20°	186.5	9.6
20°-30°	279.7	14.4
30°-40°	333.7	17.2
40°-50°	344.9	17.7
50°-60°	315.0	16.2
60°-70°	247.9	12.7
70°-80°	144.3	7.4
80°-90°	26.6	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°	531.7	27.4
0°-40°	865.4	44.5
0°-60°	1525.3	78.5
0°-90°	1944.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1944.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	694	694	694	694	694	
5°	692	690	686	692	691	66
15°	656	657	658	667	667	185
25°	594	597	604	619	622	273
35°	509	516	532	552	557	318
45°	410	423	448	473	479	316
55°	306	323	357	383	388	274
65°	202	224	258	279	284	201
75°	101	125	153	150	145	108
85°	18	26	14	12	10	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	694.0	694.0	694.0	694.0	694.0
2.5°	694.9	693.0	690.1	694.9	694.0
5°	692.1	690.1	686.3	692.1	691.0
7.5°	686.3	684.3	682.4	688.2	687.2
10°	678.5	677.6	676.6	683.4	682.4
12.5°	668.9	668.9	668.0	675.7	675.7
15°	656.4	657.4	658.3	666.9	666.9
17.5°	644.9	643.9	646.7	656.4	657.4
20°	628.4	630.3	634.2	645.8	646.7
22.5°	612.0	614.0	620.8	632.3	635.2
25°	593.7	596.7	604.3	618.7	621.7
27.5°	574.5	578.4	588.9	604.3	607.2
30°	553.2	559.0	570.6	587.9	590.9
32.5°	532.1	537.8	552.3	569.6	573.5
35°	508.9	515.6	532.1	552.3	557.1
37.5°	484.8	493.4	512.8	533.0	538.8
40°	460.7	470.4	491.6	512.8	519.5
42.5°	436.6	446.3	469.3	493.4	500.3
45°	409.6	423.2	448.2	473.2	479.0
47.5°	383.6	398.1	426.0	451.0	458.8
50°	358.6	373.0	402.9	429.0	436.6
52.5°	332.6	347.9	379.7	406.8	413.5
55°	306.5	322.9	356.7	382.7	388.4
57.5°	280.5	297.9	332.6	357.6	364.4
60°	254.5	272.8	306.5	331.5	336.4
62.5°	228.4	247.7	282.4	304.6	309.4
65°	202.4	223.6	258.3	278.6	284.4
67.5°	177.4	198.5	232.3	251.6	256.4
70°	154.2	173.5	207.3	221.7	223.6
72.5°	125.3	149.4	182.1	189.9	185.1
75°	101.2	125.3	153.3	150.3	144.6
77.5°	77.1	101.2	119.5	109.8	102.2
80°	54.9	79.0	82.9	68.4	64.6
82.5°	35.7	54.9	46.3	35.7	28.9
85°	18.3	26.0	14.4	11.6	9.7
87.5°	5.8	3.9	1.9	1.9	0.9
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)