

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: P732491

Luminaire Tested: **14FCZ2-20-S-B2750-W2D-CA125-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732491
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-CA125-2700K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND SMOOTH LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

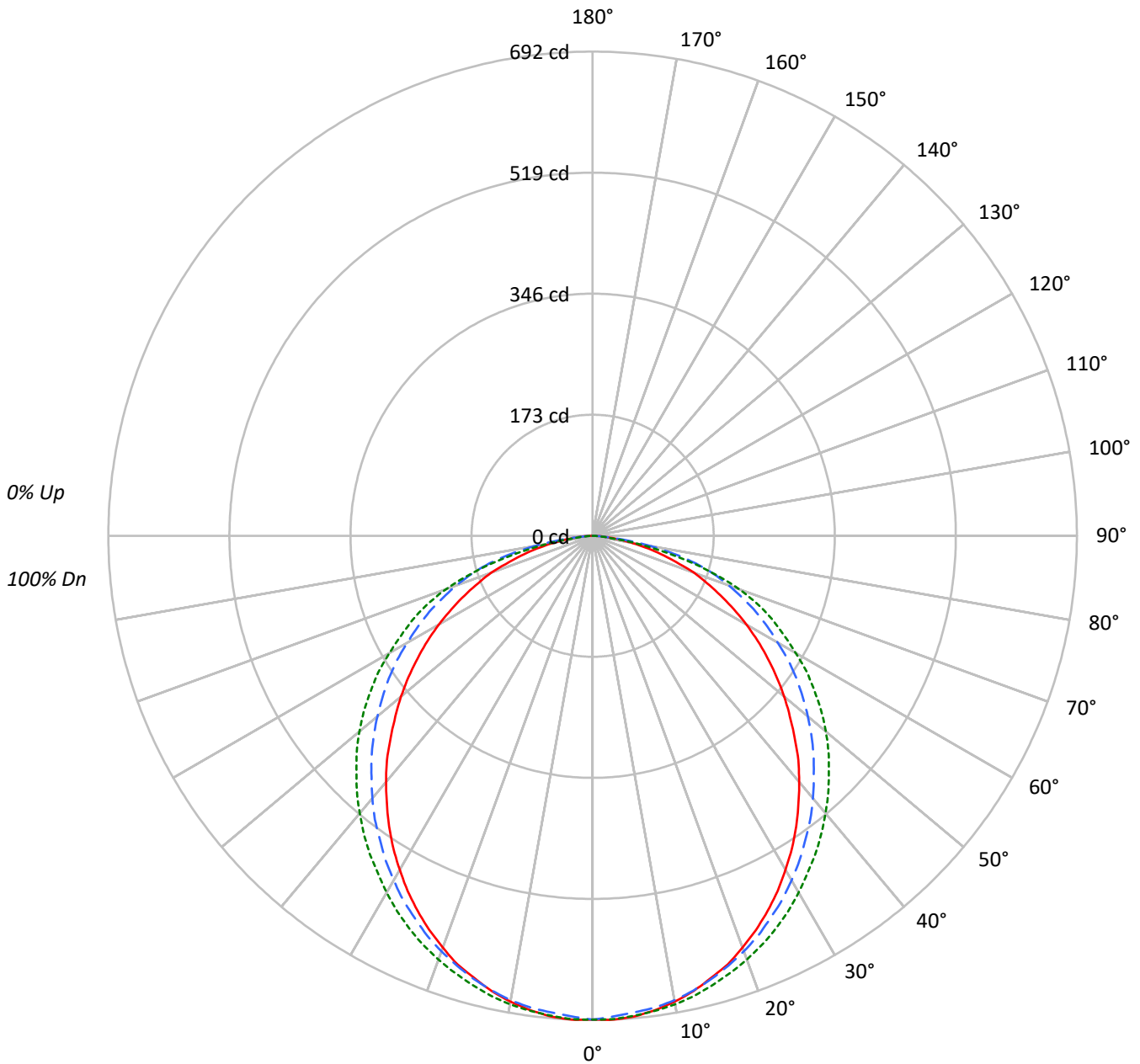
Lumens per Lamp: N/A
Luminaire Lumens: 1937.0 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1952	1952	1952
5°	1954	1938	1951
10°	1938	1932	1949
15°	1911	1917	1942
20°	1881	1898	1936
25°	1843	1876	1929
30°	1797	1853	1919
35°	1747	1827	1913
40°	1692	1805	1908
45°	1629	1783	1905
50°	1569	1763	1911
55°	1503	1749	1905
60°	1432	1724	1892
65°	1347	1719	1893
70°	1268	1704	1839
75°	1100	1665	1570
80°	889	1343	1047
85°	589	466	311



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.3	3.4
10°-20°	185.8	9.6
20°-30°	278.7	14.4
30°-40°	332.5	17.2
40°-50°	343.7	17.7
50°-60°	313.8	16.2
60°-70°	247.0	12.8
70°-80°	143.8	7.4
80°-90°	26.5	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°	529.8	27.4
0°-40°	862.3	44.5
0°-60°	1519.8	78.5
0°-90°	1937.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1937.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	692	692	692	692	692	
5°	690	688	684	690	688	65
15°	654	655	656	664	664	185
25°	592	594	602	616	620	272
35°	507	514	530	550	555	317
45°	408	422	447	472	477	315
55°	305	322	355	381	387	273
65°	202	223	257	278	283	200
75°	101	125	153	150	144	107
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°	691.5	691.5	691.5	691.5	691.5
2.5°	692.4	690.5	687.6	692.4	691.5
5°	689.6	687.6	683.8	689.6	688.5
7.5°	683.8	681.8	680.0	685.7	684.8
10°	676.1	675.1	674.2	680.9	680.0
12.5°	666.5	666.5	665.6	673.2	673.2
15°	654.1	655.0	655.9	664.5	664.5
17.5°	642.5	641.6	644.4	654.1	655.0
20°	626.2	628.1	631.9	643.5	644.4
22.5°	609.8	611.8	618.5	630.1	632.9
25°	591.6	594.5	602.2	616.5	619.5
27.5°	572.4	576.3	586.7	602.2	605.0
30°	551.2	557.0	568.5	585.8	588.7
32.5°	530.1	535.9	550.3	567.6	571.4
35°	507.1	513.8	530.1	550.3	555.1
37.5°	483.1	491.7	511.0	531.1	536.9
40°	459.1	468.7	489.8	511.0	517.7
42.5°	435.1	444.7	467.7	491.7	498.5
45°	408.1	421.6	446.6	471.5	477.3
47.5°	382.2	396.7	424.5	449.4	457.2
50°	357.3	371.6	401.4	427.4	435.1
52.5°	331.4	346.7	378.3	405.3	412.0
55°	305.4	321.7	355.4	381.3	387.0
57.5°	279.5	296.8	331.4	356.3	363.0
60°	253.6	271.8	305.4	330.3	335.2
62.5°	227.6	246.8	281.4	303.5	308.3
65°	201.7	222.8	257.4	277.6	283.4
67.5°	176.8	197.8	231.5	250.7	255.5
70°	153.7	172.9	206.5	220.9	222.8
72.5°	124.9	148.9	181.5	189.2	184.4
75°	100.9	124.9	152.7	149.8	144.0
77.5°	76.8	100.9	119.1	109.4	101.8
80°	54.7	78.7	82.6	68.1	64.4
82.5°	35.5	54.7	46.1	35.5	28.8
85°	18.2	25.9	14.4	11.5	9.6
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)