

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: P732711

Luminaire Tested: **14FCZ2-29-RDP-B2750-W2D-CA08-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732711  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275838)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 14FCZ2-29-RDP-B2750-W2D-CA08-2700K  
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT  
AND RDP LENS, WITH, CA08 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

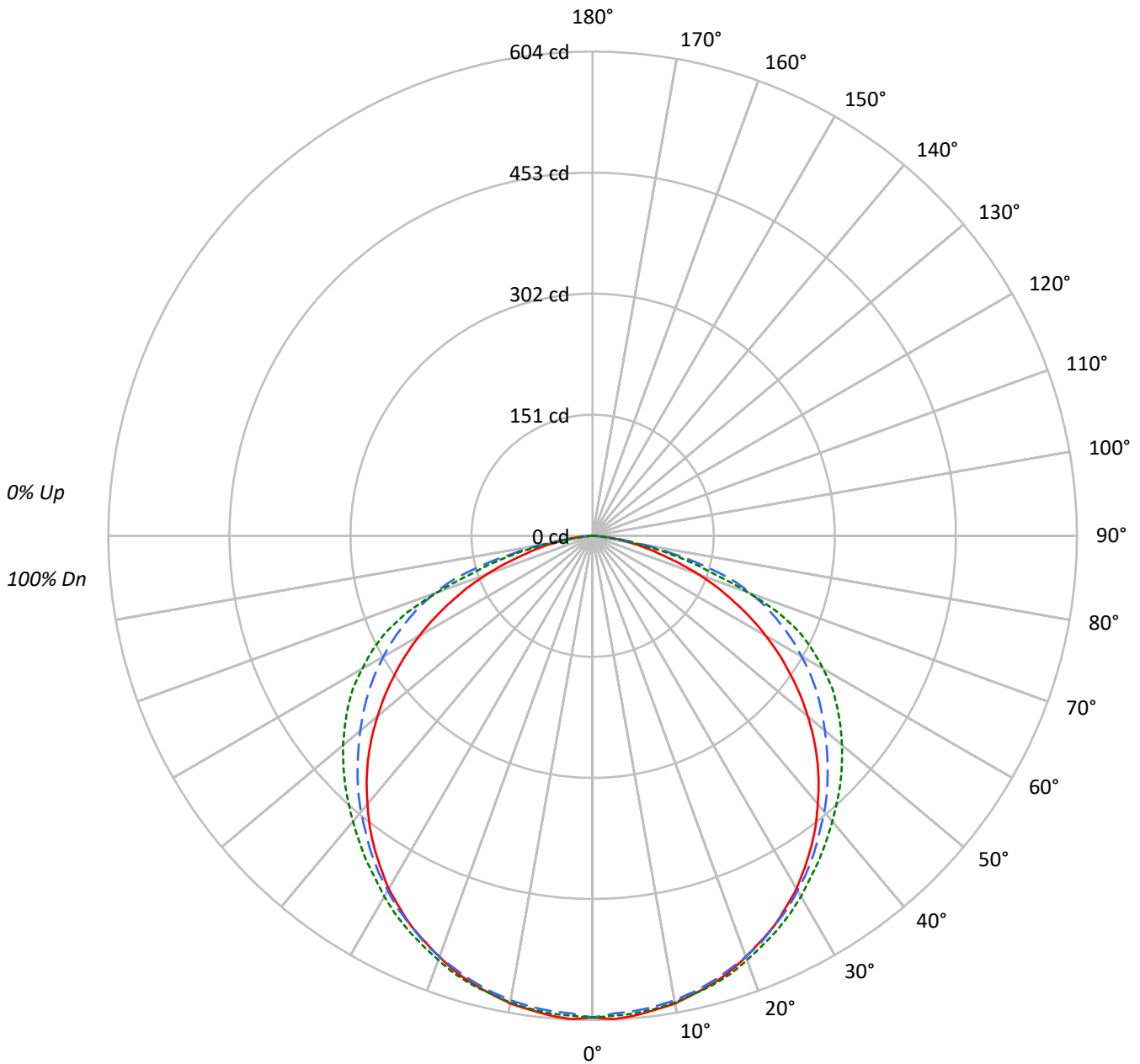
Lumens per Lamp: N/A  
Luminaire Lumens: 1794.0 lumens  
Efficiency: N/A  
Efficacy: 78.0 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 23  
Input Voltage (V): NR  
Input Current (Ain): 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	93	91	88	90	88	86	84																			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	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	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32																			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29																			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26																			
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1696	1696	1696
5°	1703	1686	1695
10°	1698	1686	1694
15°	1690	1682	1695
20°	1679	1679	1691
25°	1671	1671	1692
30°	1657	1666	1694
35°	1636	1661	1699
40°	1610	1657	1714
45°	1582	1655	1744
50°	1538	1661	1784
55°	1482	1682	1833
60°	1407	1700	1874
65°	1300	1721	1899
70°	1156	1734	1698
75°	932	1557	1359
80°	728	1094	888
85°	502	317	227



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.9	3.2
10°-20°	163.2	9.1
20°-30°	248.5	13.8
30°-40°	302.6	16.9
40°-50°	321.0	17.9
50°-60°	303.0	16.9
60°-70°	244.6	13.6
70°-80°	132.7	7.4
80°-90°	21.5	1.2
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°	468.5	26.1
0°-40°	771.1	43.0
0°-60°	1395.2	77.8
0°-90°	1794.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1794.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	601	601	601	601	601	
5°	601	600	595	600	598	57
15°	578	577	576	580	580	163
25°	536	535	536	542	543	247
35°	475	478	482	492	493	297
45°	396	402	415	430	437	305
55°	301	314	342	364	372	269
65°	195	218	258	279	284	193
75°	86	125	143	129	125	93
85°	16	17	10	8	7	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	600.9	600.9	600.9	600.9	600.9
2.5°	603.6	600.9	596.6	600.9	599.5
5°	600.9	599.5	595.2	599.5	598.1
7.5°	596.6	596.6	592.4	595.2	595.2
10°	592.4	591.1	588.3	592.4	591.1
12.5°	585.4	584.0	582.7	586.8	585.4
15°	578.4	577.0	575.6	579.9	579.9
17.5°	570.0	568.6	567.2	572.9	572.9
20°	558.8	558.8	558.8	564.5	563.1
22.5°	547.6	547.6	549.0	554.7	553.3
25°	536.5	535.1	536.5	542.0	543.4
27.5°	522.4	523.8	525.2	530.8	532.2
30°	508.5	509.9	511.2	518.3	519.7
32.5°	491.7	494.4	497.2	505.6	505.6
35°	474.9	477.6	481.9	491.7	493.0
37.5°	456.7	459.4	465.1	476.2	479.0
40°	436.9	441.2	449.6	460.8	465.1
42.5°	417.3	423.0	432.8	445.3	451.0
45°	396.4	401.9	414.6	430.0	436.9
47.5°	373.9	380.9	396.4	416.0	421.6
50°	350.2	360.0	378.2	399.1	406.2
52.5°	326.4	337.5	360.0	382.3	389.4
55°	301.1	313.6	341.8	364.1	372.5
57.5°	275.9	290.0	322.1	345.9	354.3
60°	249.3	266.1	301.1	325.0	332.0
62.5°	222.7	242.2	280.2	303.9	309.5
65°	194.7	218.5	257.7	278.8	284.3
67.5°	168.1	196.1	235.4	250.6	250.6
70°	140.1	170.8	210.1	214.3	205.8
72.5°	112.1	147.1	182.1	166.7	159.7
75°	85.5	124.6	142.8	128.9	124.6
77.5°	64.4	100.8	100.8	92.4	89.6
80°	44.8	77.1	67.3	58.9	54.6
82.5°	29.4	43.4	35.0	28.0	23.9
85°	15.5	16.8	9.8	8.4	7.0
87.5°	5.7	2.7	1.4	2.7	1.4
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)