

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: P732562

Luminaire Tested: **14FCZ2-25-HRP-B2750-W2D-CA08-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732562  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P294787)  
Test Lab: INNOVATIONS CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 14FCZ2-25-HRP-B2750-W2D-CA08-3000K  
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT  
AND HRP LENS, WITH, CA08 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

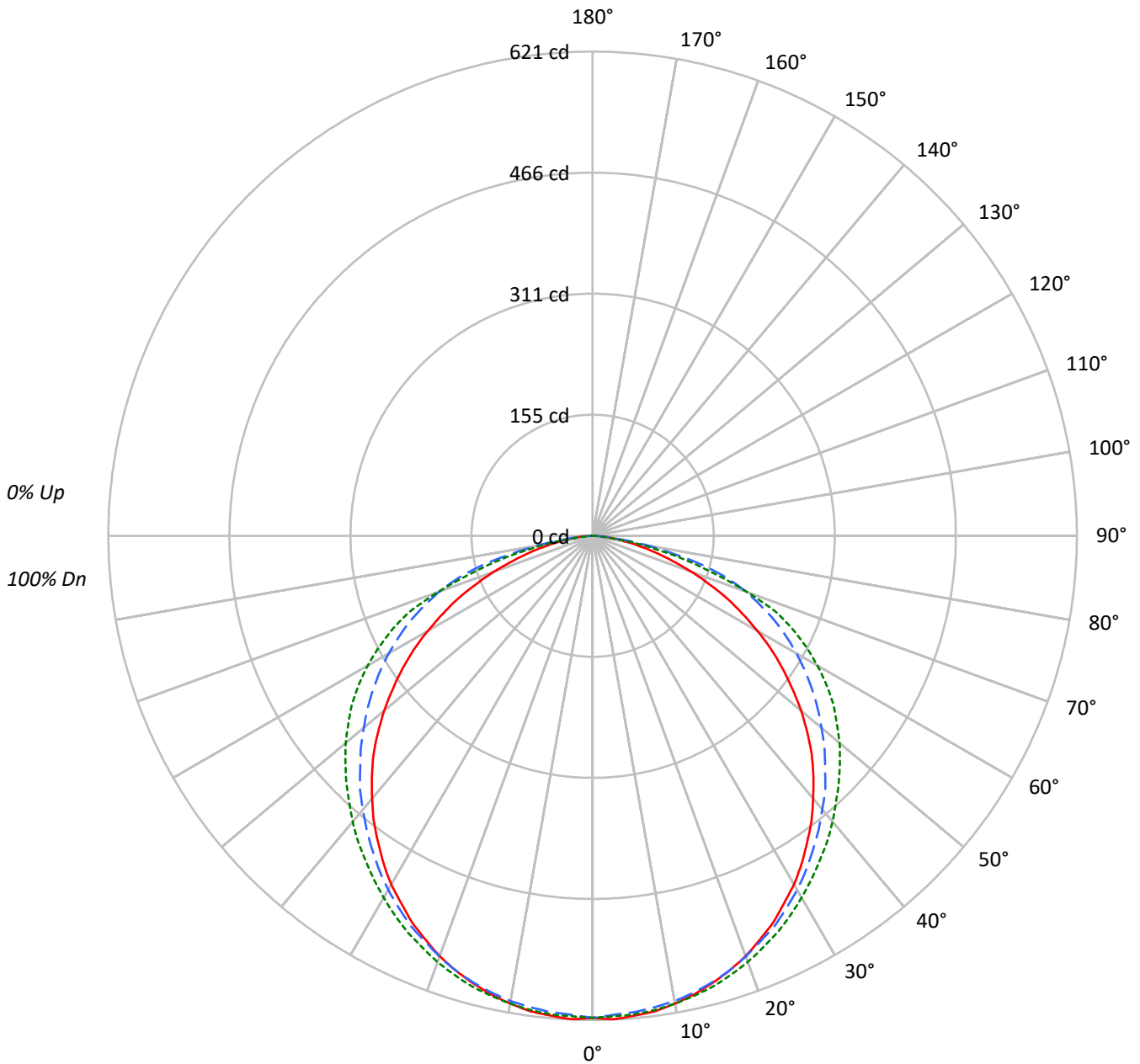
Lumens per Lamp: N/A  
Luminaire Lumens: 1821.0 lumens  
Efficiency: N/A  
Efficacy: 95.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 19  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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					20					
RC	80					70					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	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69								
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58								
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49								
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42								
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37								
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33								
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	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	38	31	26	37	30	26	37	30	25	36	30	25	24								

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

	0°	45°	90°
0°	1745	1745	1745
5°	1751	1738	1746
10°	1746	1737	1746
15°	1736	1732	1748
20°	1723	1725	1748
25°	1705	1719	1748
30°	1683	1709	1747
35°	1653	1697	1750
40°	1621	1688	1764
45°	1586	1682	1783
50°	1531	1682	1815
55°	1466	1691	1854
60°	1377	1703	1878
65°	1270	1721	1889
70°	1106	1725	1739
75°	912	1605	1405
80°	717	1154	940
85°	557	447	220



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.5	3.2
10°-20°	168.0	9.2
20°-30°	255.1	14.0
30°-40°	309.1	17.0
40°-50°	325.7	17.9
50°-60°	304.1	16.7
60°-70°	243.0	13.3
70°-80°	133.7	7.3
80°-90°	23.6	1.3
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°	481.7	26.4
0°-40°	790.8	43.4
0°-60°	1420.6	78.0
0°-90°	1821.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1821.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	618	618	618	618	618	
5°	618	616	613	617	616	59
15°	594	594	593	598	598	168
25°	548	548	552	560	561	252
35°	480	484	492	505	508	300
45°	397	405	421	440	447	306
55°	298	313	344	368	377	266
65°	190	214	258	279	283	187
75°	84	120	147	132	129	90
85°	17	22	14	8	7	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	618.3	618.3	618.3	618.3	618.3
2.5°	620.7	618.9	615.0	618.3	616.8
5°	617.9	616.2	613.3	617.3	616.2
7.5°	615.0	612.7	609.8	614.4	613.3
10°	609.2	607.5	605.9	609.8	609.2
12.5°	602.4	601.8	600.1	604.7	604.1
15°	593.9	593.9	592.7	598.3	598.3
17.5°	584.6	584.0	584.6	591.0	590.4
20°	573.7	573.7	574.3	581.8	581.8
22.5°	560.5	561.1	562.8	572.0	571.4
25°	547.5	548.5	552.0	559.9	561.1
27.5°	531.4	534.3	538.2	547.9	549.1
30°	516.5	518.2	524.4	533.7	535.9
32.5°	498.8	502.1	509.1	519.4	522.3
35°	479.8	484.4	492.4	505.0	507.9
37.5°	461.0	465.0	475.9	488.9	494.2
40°	439.8	446.6	458.1	473.0	478.7
42.5°	419.1	426.0	441.6	456.9	462.1
45°	397.4	404.9	421.4	440.4	446.6
47.5°	373.3	382.0	403.2	423.1	430.0
50°	348.7	359.5	383.0	405.5	413.4
52.5°	323.0	336.6	363.6	387.1	394.6
55°	297.8	312.6	343.6	367.6	376.8
57.5°	272.0	288.1	323.0	350.4	355.6
60°	243.9	263.5	301.7	325.8	332.7
62.5°	216.5	238.8	280.0	302.9	308.7
65°	190.1	214.2	257.7	278.8	282.9
67.5°	161.4	190.1	233.0	252.6	253.6
70°	134.0	167.2	209.0	218.1	210.7
72.5°	107.1	142.6	181.0	173.5	167.2
75°	83.6	119.7	147.2	132.3	128.8
77.5°	61.9	98.0	105.4	97.4	91.0
80°	44.1	77.2	71.0	60.7	57.8
82.5°	30.3	48.7	39.0	30.3	26.4
85°	17.2	21.7	13.8	8.5	6.8
87.5°	7.4	5.2	2.9	2.3	2.3
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)