

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: P732563

Luminaire Tested: **14FCZ2-25-HRP-B2750-W2D-CA08-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732563  
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-CA08-3500K  
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT  
AND HRP LENS, WITH, CA08 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

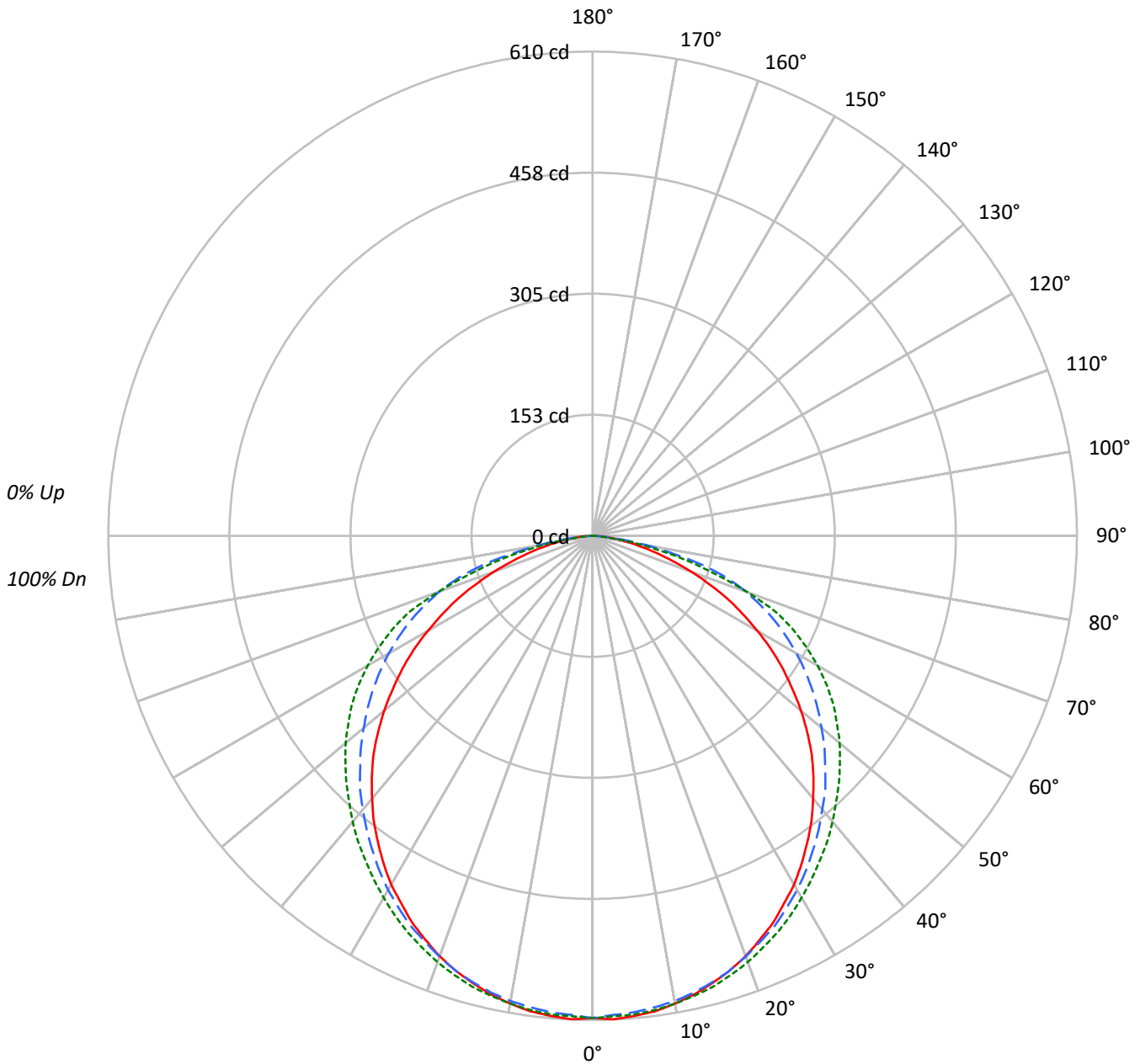
Lumens per Lamp: N/A  
Luminaire Lumens: 1789.0 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 19  
Input Voltage (V): NR  
Input Current (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	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°	1715	1715	1715
5°	1720	1707	1715
10°	1715	1706	1715
15°	1705	1702	1718
20°	1693	1695	1717
25°	1675	1689	1717
30°	1654	1679	1716
35°	1624	1667	1719
40°	1592	1658	1733
45°	1558	1653	1752
50°	1504	1652	1784
55°	1440	1661	1822
60°	1353	1673	1845
65°	1248	1690	1856
70°	1087	1694	1708
75°	895	1577	1381
80°	704	1135	923
85°	547	437	217



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.5	3.2
10°-20°	165.0	9.2
20°-30°	250.6	14.0
30°-40°	303.7	17.0
40°-50°	320.0	17.9
50°-60°	298.8	16.7
60°-70°	238.7	13.3
70°-80°	131.4	7.3
80°-90°	23.2	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°	473.2	26.5
0°-40°	776.9	43.4
0°-60°	1395.7	78.0
0°-90°	1789.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1789.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	608	608	608	608	608	
5°	607	605	602	606	605	58
15°	583	583	582	588	588	165
25°	538	539	542	550	551	248
35°	471	476	484	496	499	295
45°	390	398	414	433	439	300
55°	293	307	338	361	370	261
65°	187	210	253	274	278	184
75°	82	118	145	130	127	88
85°	17	21	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°	607.5	607.5	607.5	607.5	607.5
2.5°	609.8	608.1	604.2	607.5	605.9
5°	607.1	605.3	602.5	606.5	605.3
7.5°	604.2	601.9	599.1	603.6	602.5
10°	598.5	596.8	595.2	599.1	598.5
12.5°	591.8	591.3	589.5	594.1	593.5
15°	583.4	583.4	582.3	587.8	587.8
17.5°	574.3	573.7	574.3	580.6	580.0
20°	563.6	563.6	564.2	571.6	571.6
22.5°	550.7	551.2	553.0	561.9	561.4
25°	537.9	538.9	542.3	550.1	551.2
27.5°	522.1	524.9	528.8	538.3	539.4
30°	507.4	509.1	515.2	524.3	526.5
32.5°	490.0	493.3	500.1	510.2	513.1
35°	471.4	475.9	483.8	496.2	499.0
37.5°	452.9	456.9	467.5	480.3	485.5
40°	432.1	438.8	450.0	464.7	470.2
42.5°	411.7	418.6	433.8	448.9	454.0
45°	390.4	397.8	414.0	432.7	438.8
47.5°	366.7	375.3	396.1	415.7	422.4
50°	342.5	353.2	376.3	398.3	406.2
52.5°	317.3	330.7	357.2	380.3	387.7
55°	292.6	307.1	337.6	361.2	370.2
57.5°	267.2	283.0	317.3	344.2	349.4
60°	239.6	258.8	296.4	320.0	326.9
62.5°	212.7	234.6	275.1	297.5	303.2
65°	186.8	210.4	253.1	273.9	277.9
67.5°	158.6	186.8	228.9	248.1	249.1
70°	131.7	164.3	205.3	214.3	207.0
72.5°	105.2	140.1	177.8	170.4	164.3
75°	82.1	117.6	144.6	130.0	126.6
77.5°	60.8	96.2	103.5	95.7	89.4
80°	43.3	75.9	69.8	59.7	56.8
82.5°	29.8	47.8	38.3	29.8	25.9
85°	16.9	21.4	13.5	8.4	6.7
87.5°	7.3	5.1	2.8	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)