

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: P732569

Luminaire Tested: **14FCZ2-25-HRP-B2750-W2D-CA125-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732569  
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-CA125-4000K  
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT  
AND HRP LENS, WITH, CA125 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

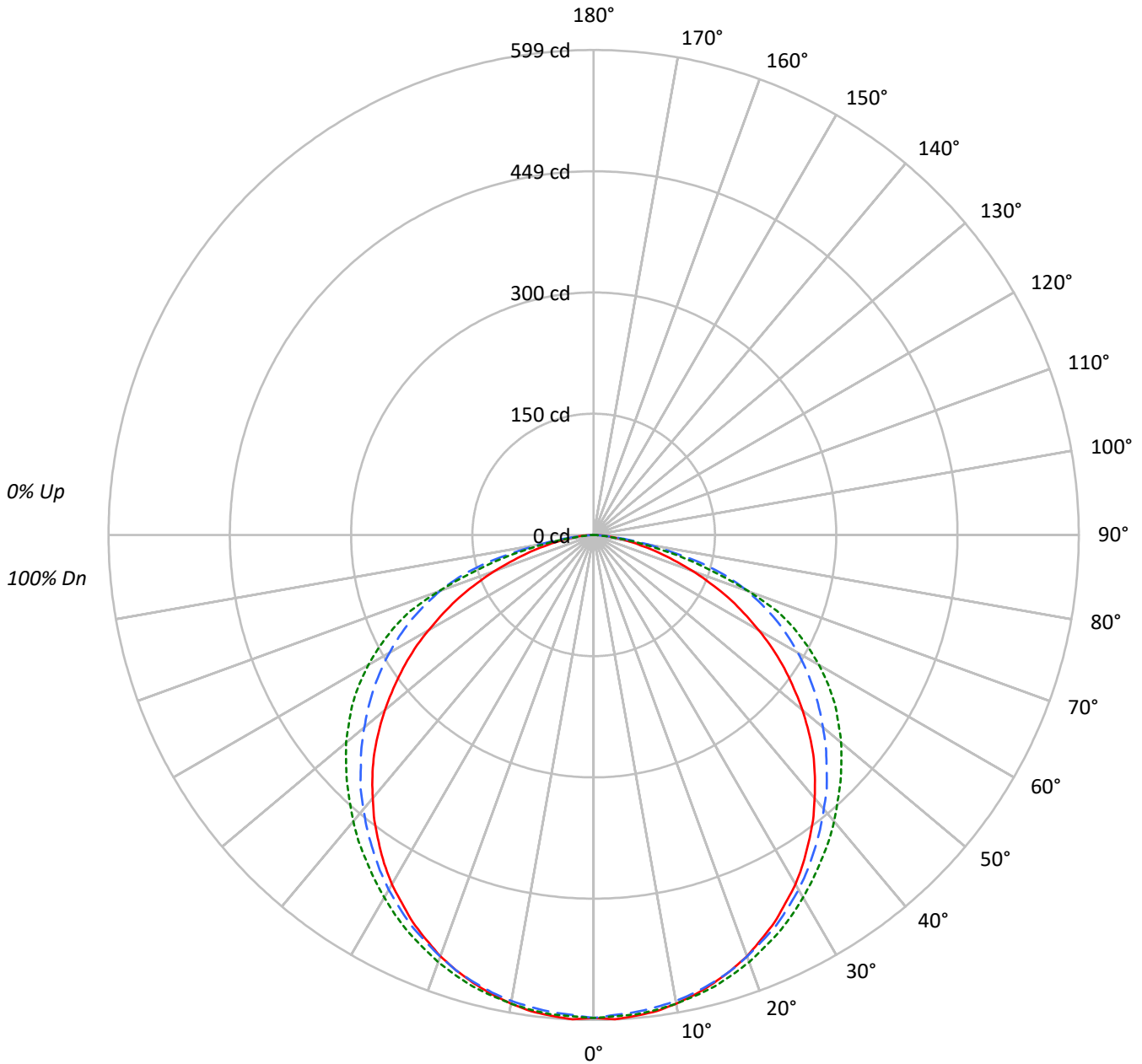
Lumens per Lamp: N/A  
Luminaire Lumens: 1757.0 lumens  
Efficiency: N/A  
Efficacy: 92.5 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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									
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°	1684	1684	1684
5°	1689	1677	1684
10°	1685	1676	1685
15°	1674	1671	1687
20°	1663	1664	1686
25°	1645	1659	1686
30°	1624	1649	1685
35°	1595	1637	1689
40°	1564	1629	1702
45°	1530	1623	1720
50°	1477	1623	1752
55°	1414	1631	1789
60°	1328	1643	1812
65°	1225	1660	1823
70°	1067	1664	1678
75°	880	1550	1356
80°	691	1113	907
85°	538	431	214



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.5	3.2
10°-20°	162.1	9.2
20°-30°	246.1	14.0
30°-40°	298.3	17.0
40°-50°	314.3	17.9
50°-60°	293.4	16.7
60°-70°	234.5	13.3
70°-80°	129.0	7.3
80°-90°	22.8	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°	464.7	26.5
0°-40°	763.0	43.4
0°-60°	1370.7	78.0
0°-90°	1757.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1757.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	597	597	597	597	597	
5°	596	594	592	596	594	57
15°	573	573	572	577	577	162
25°	528	529	533	540	541	243
35°	463	467	475	487	490	290
45°	383	391	407	425	431	295
55°	287	302	332	355	364	256
65°	183	207	249	269	273	181
75°	81	116	142	128	124	87
85°	17	21	13	8	7	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	596.6	596.6	596.6	596.6	596.6
2.5°	598.9	597.2	593.4	596.6	595.1
5°	596.2	594.5	591.7	595.6	594.5
7.5°	593.4	591.2	588.4	592.8	591.7
10°	587.8	586.1	584.6	588.4	587.8
12.5°	581.2	580.7	579.0	583.5	582.9
15°	573.0	573.0	571.9	577.3	577.3
17.5°	564.0	563.5	564.0	570.2	569.6
20°	553.6	553.6	554.1	561.4	561.4
22.5°	540.8	541.4	543.1	551.9	551.3
25°	528.2	529.2	532.6	540.3	541.4
27.5°	512.7	515.5	519.3	528.7	529.8
30°	498.3	500.0	506.0	515.0	517.1
32.5°	481.3	484.5	491.2	501.1	503.9
35°	462.9	467.4	475.1	487.3	490.1
37.5°	444.8	448.7	459.2	471.8	476.8
40°	424.4	430.9	442.0	456.4	461.8
42.5°	404.4	411.1	426.0	440.9	445.9
45°	383.4	390.7	406.6	424.9	430.9
47.5°	360.2	368.6	389.0	408.3	414.8
50°	336.4	346.9	369.5	391.2	398.9
52.5°	311.7	324.8	350.8	373.5	380.7
55°	287.3	301.6	331.5	354.7	363.5
57.5°	262.4	278.0	311.7	338.1	343.1
60°	235.3	254.2	291.1	314.3	321.0
62.5°	208.9	230.4	270.1	292.2	297.8
65°	183.4	206.7	248.6	269.0	272.9
67.5°	155.8	183.4	224.8	243.7	244.7
70°	129.3	161.4	201.6	210.4	203.3
72.5°	103.3	137.6	174.6	167.4	161.4
75°	80.7	115.5	142.1	127.7	124.3
77.5°	59.7	94.5	101.6	94.0	87.8
80°	42.5	74.5	68.5	58.6	55.8
82.5°	29.2	47.0	37.6	29.2	25.4
85°	16.6	21.0	13.3	8.2	6.6
87.5°	7.1	5.0	2.8	2.2	2.2
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)