

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: P732572

Luminaire Tested: **14FCZ2-25-HRP-B2750-W2D-CP187-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732572  
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-CP187-3000K  
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT  
AND HRP LENS, WITH, CP187 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

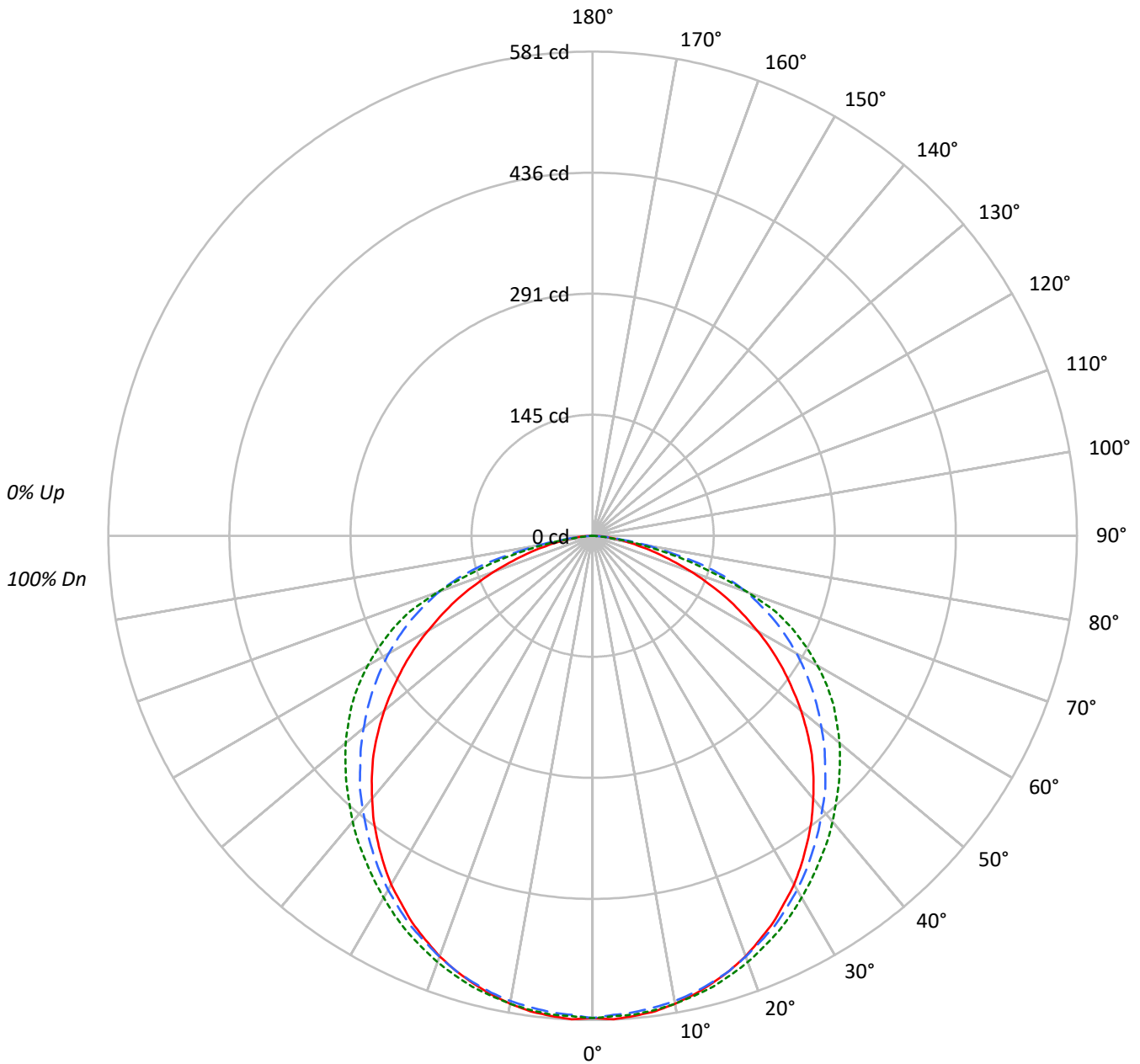
Lumens per Lamp: N/A  
Luminaire Lumens: 1704.0 lumens  
Efficiency: N/A  
Efficacy: 89.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	1633	1633	1633
5°	1638	1626	1634
10°	1634	1625	1634
15°	1624	1621	1636
20°	1613	1614	1635
25°	1596	1609	1635
30°	1575	1599	1635
35°	1547	1588	1638
40°	1517	1579	1650
45°	1484	1574	1668
50°	1433	1574	1699
55°	1372	1582	1735
60°	1288	1594	1757
65°	1188	1610	1768
70°	1035	1613	1627
75°	853	1503	1315
80°	670	1079	879
85°	521	418	207



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.8	3.2
10°-20°	157.2	9.2
20°-30°	238.7	14.0
30°-40°	289.3	17.0
40°-50°	304.8	17.9
50°-60°	284.6	16.7
60°-70°	227.4	13.3
70°-80°	125.1	7.3
80°-90°	22.1	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°	450.7	26.5
0°-40°	740.0	43.4
0°-60°	1329.4	78.0
0°-90°	1704.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1704.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	579	579	579	579	579	
5°	578	577	574	578	577	55
15°	556	556	555	560	560	157
25°	512	513	516	524	525	236
35°	449	453	461	473	475	281
45°	372	379	394	412	418	286
55°	279	292	322	344	353	249
65°	178	200	241	261	265	175
75°	78	112	138	124	121	84
85°	16	20	13	8	6	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	578.6	578.6	578.6	578.6	578.6
2.5°	580.8	579.2	575.5	578.6	577.1
5°	578.2	576.6	573.9	577.7	576.6
7.5°	575.5	573.3	570.6	575.0	573.9
10°	570.1	568.4	567.0	570.6	570.1
12.5°	563.7	563.2	561.5	565.9	565.3
15°	555.7	555.7	554.6	559.9	559.9
17.5°	547.0	546.5	547.0	553.0	552.4
20°	536.9	536.9	537.4	544.4	544.4
22.5°	524.5	525.1	526.7	535.2	534.7
25°	512.3	513.3	516.5	524.0	525.1
27.5°	497.3	500.0	503.6	512.7	513.8
30°	483.3	484.9	490.7	499.4	501.5
32.5°	466.7	469.9	476.4	486.0	488.7
35°	449.0	453.3	460.8	472.6	475.3
37.5°	431.4	435.2	445.3	457.5	462.4
40°	411.6	417.9	428.6	442.6	447.9
42.5°	392.2	398.7	413.2	427.6	432.4
45°	371.8	378.9	394.3	412.1	417.9
47.5°	349.3	357.4	377.2	396.0	402.3
50°	326.3	336.4	358.4	379.4	386.9
52.5°	302.3	315.0	340.2	362.2	369.2
55°	278.7	292.5	321.5	344.0	352.6
57.5°	254.5	269.6	302.3	327.9	332.8
60°	228.2	246.5	282.3	304.8	311.3
62.5°	202.6	223.5	262.0	283.4	288.8
65°	177.9	200.4	241.1	260.9	264.7
67.5°	151.1	177.9	218.0	236.4	237.3
70°	125.4	156.5	195.5	204.1	197.2
72.5°	100.2	133.4	169.4	162.3	156.5
75°	78.2	112.0	137.8	123.8	120.6
77.5°	57.9	91.7	98.6	91.1	85.2
80°	41.2	72.3	66.4	56.8	54.1
82.5°	28.3	45.6	36.5	28.3	24.7
85°	16.1	20.3	12.9	8.0	6.4
87.5°	6.9	4.9	2.7	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)