

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: P732574

Luminaire Tested: **14FCZ2-25-HRP-B2750-W2D-CP187-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732574  
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-CP187-4000K  
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT  
AND HRP LENS, WITH, CP187 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

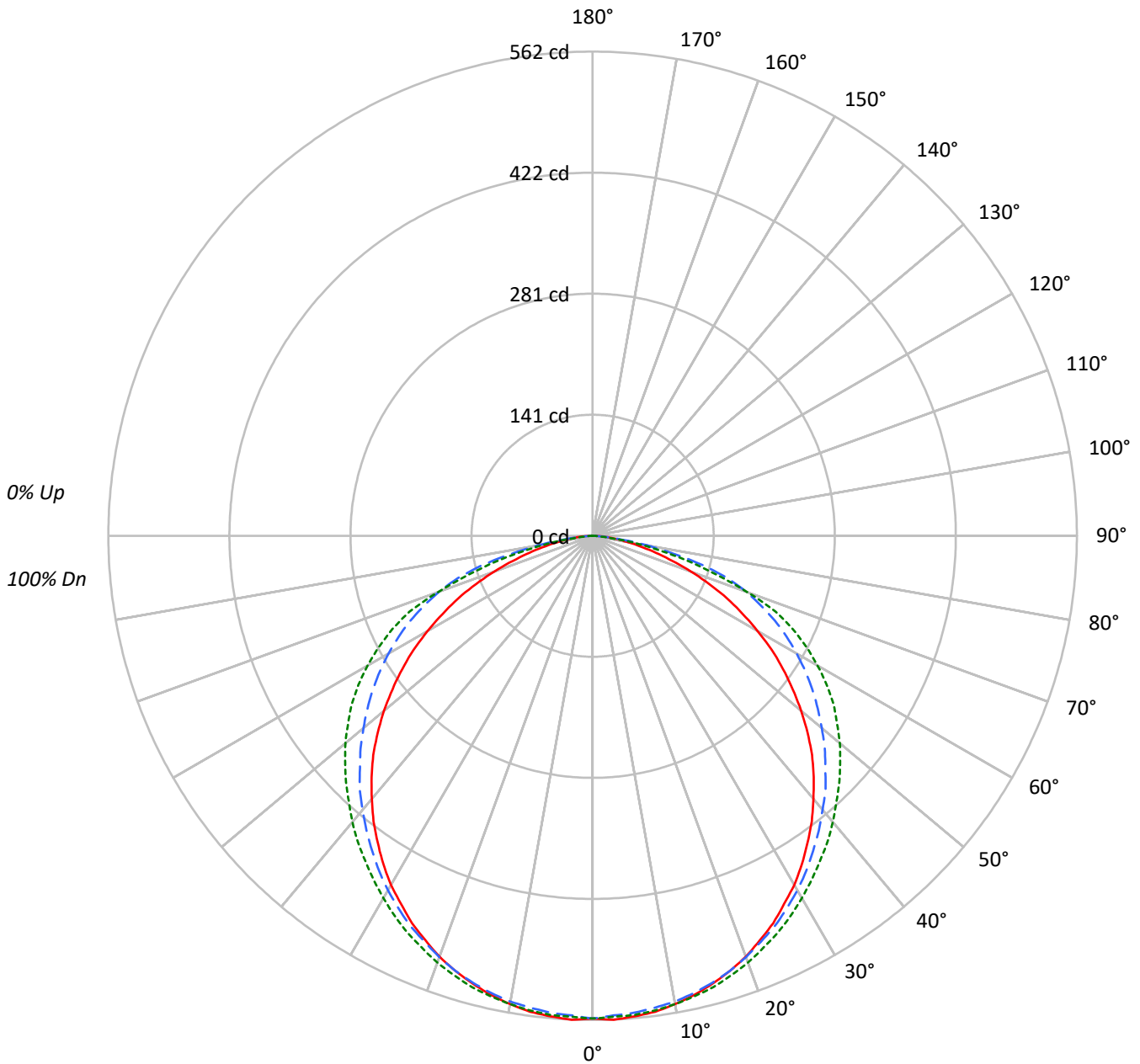
Lumens per Lamp: N/A  
Luminaire Lumens: 1650.0 lumens  
Efficiency: N/A  
Efficacy: 86.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P732574

CATALOG NUMBER: 14FCZ2-25-HRP-B2750-W2D-CP187-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P732574

CATALOG NUMBER: 14FCZ2-25-HRP-B2750-W2D-CP187-4000K

**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°	1582	1582	1582
5°	1586	1575	1582
10°	1582	1574	1582
15°	1572	1569	1584
20°	1561	1563	1584
25°	1545	1558	1583
30°	1525	1549	1583
35°	1498	1538	1586
40°	1468	1530	1598
45°	1437	1524	1616
50°	1387	1524	1645
55°	1328	1532	1680
60°	1248	1543	1702
65°	1151	1560	1712
70°	1003	1562	1575
75°	827	1455	1273
80°	649	1045	852
85°	505	405	201



TEST NUMBER: P732574

CATALOG NUMBER: 14FCZ2-25-HRP-B2750-W2D-CP187-4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.0	3.2
10°-20°	152.2	9.2
20°-30°	231.2	14.0
30°-40°	280.1	17.0
40°-50°	295.1	17.9
50°-60°	275.5	16.7
60°-70°	220.2	13.3
70°-80°	121.2	7.3
80°-90°	21.4	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°	436.4	26.5
0°-40°	716.5	43.4
0°-60°	1287.2	78.0
0°-90°	1650.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1650.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	560	560	560	560	560	
5°	560	558	556	559	558	53
15°	538	538	537	542	542	152
25°	496	497	500	507	508	228
35°	435	439	446	458	460	272
45°	360	367	382	399	405	277
55°	270	283	311	333	341	241
65°	172	194	234	253	256	170
75°	76	108	133	120	117	82
85°	16	20	12	8	6	19
90°	0	0	0	0	0	



TEST NUMBER: P732574

CATALOG NUMBER: 14FCZ2-25-HRP-B2750-W2D-CP187-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	560.3	560.3	560.3	560.3	560.3
2.5°	562.4	560.8	557.3	560.3	558.8
5°	559.9	558.3	555.7	559.4	558.3
7.5°	557.3	555.2	552.5	556.7	555.7
10°	552.0	550.4	549.0	552.5	552.0
12.5°	545.8	545.3	543.7	547.9	547.4
15°	538.1	538.1	537.0	542.2	542.2
17.5°	529.7	529.2	529.7	535.5	534.9
20°	519.8	519.8	520.4	527.2	527.2
22.5°	507.9	508.4	510.0	518.3	517.7
25°	496.1	497.0	500.1	507.4	508.4
27.5°	481.5	484.1	487.7	496.5	497.5
30°	468.0	469.5	475.2	483.6	485.6
32.5°	452.0	455.0	461.3	470.6	473.2
35°	434.8	439.0	446.2	457.6	460.2
37.5°	417.7	421.4	431.2	443.0	447.8
40°	398.5	404.7	415.1	428.6	433.7
42.5°	379.7	386.0	400.1	414.0	418.7
45°	360.0	366.9	381.8	399.0	404.7
47.5°	338.2	346.1	365.3	383.4	389.6
50°	315.9	325.8	347.0	367.4	374.6
52.5°	292.7	305.0	329.4	350.7	357.5
55°	269.8	283.2	311.3	333.1	341.4
57.5°	246.5	261.0	292.7	317.5	322.2
60°	221.0	238.7	273.4	295.2	301.5
62.5°	196.2	216.4	253.7	274.4	279.7
65°	172.3	194.1	233.5	252.6	256.3
67.5°	146.3	172.3	211.1	228.9	229.8
70°	121.5	151.5	189.3	197.6	190.9
72.5°	97.0	129.2	164.0	157.2	151.5
75°	75.8	108.5	133.4	119.9	116.7
77.5°	56.1	88.8	95.5	88.2	82.5
80°	39.9	70.0	64.3	55.0	52.4
82.5°	27.4	44.1	35.3	27.4	23.9
85°	15.6	19.7	12.5	7.7	6.2
87.5°	6.7	4.7	2.6	2.1	2.1
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)