

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: P732580

Luminaire Tested: **14FCZ2-25-HRP-B2750-W2D-CP250-5000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732580  
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-CP250-5000K  
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT  
AND HRP LENS, WITH, CP250 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

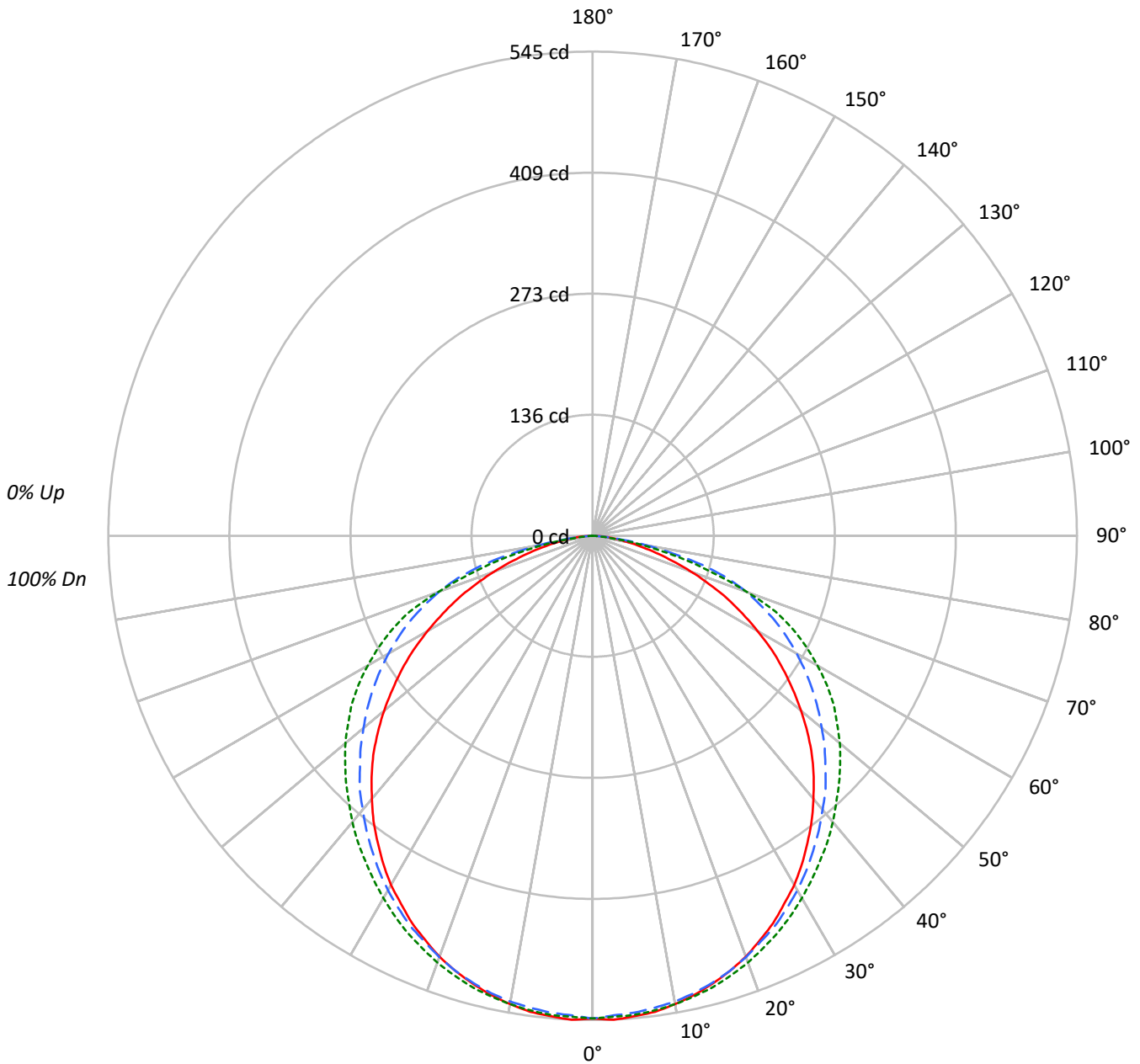
Lumens per Lamp: N/A  
Luminaire Lumens: 1600.0 lumens  
Efficiency: N/A  
Efficacy: 84.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 19  
Input Voltage (V): NR  
Input Current (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°	1534	1534	1534
5°	1538	1527	1534
10°	1534	1526	1534
15°	1525	1522	1536
20°	1514	1516	1536
25°	1498	1511	1535
30°	1479	1502	1535
35°	1453	1491	1538
40°	1424	1483	1550
45°	1394	1478	1566
50°	1345	1478	1595
55°	1288	1486	1629
60°	1210	1497	1650
65°	1116	1512	1660
70°	972	1515	1528
75°	802	1411	1235
80°	629	1014	826
85°	492	392	194



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.4	3.2
10°-20°	147.6	9.2
20°-30°	224.1	14.0
30°-40°	271.6	17.0
40°-50°	286.2	17.9
50°-60°	267.2	16.7
60°-70°	213.5	13.3
70°-80°	117.5	7.3
80°-90°	20.7	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°	423.2	26.4
0°-40°	694.8	43.4
0°-60°	1248.2	78.0
0°-90°	1600.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1600.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	543	543	543	543	543	
5°	543	541	539	542	541	52
15°	522	522	521	526	526	147
25°	481	482	485	492	493	221
35°	422	426	433	444	446	264
45°	349	356	370	387	392	269
55°	262	275	302	323	331	234
65°	167	188	226	245	248	164
75°	74	105	129	116	113	79
85°	15	19	12	8	6	18
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	543.3	543.3	543.3	543.3	543.3
2.5°	545.3	543.8	540.4	543.3	541.9
5°	542.9	541.4	538.8	542.4	541.4
7.5°	540.4	538.3	535.8	539.9	538.8
10°	535.3	533.8	532.4	535.8	535.3
12.5°	529.3	528.8	527.3	531.3	530.8
15°	521.8	521.8	520.8	525.7	525.7
17.5°	513.6	513.1	513.6	519.2	518.7
20°	504.1	504.1	504.6	511.2	511.2
22.5°	492.5	493.0	494.5	502.6	502.1
25°	481.0	481.9	485.0	492.0	493.0
27.5°	466.9	469.5	472.9	481.4	482.4
30°	453.8	455.3	460.8	468.9	470.9
32.5°	438.3	441.2	447.3	456.3	458.9
35°	421.6	425.7	432.7	443.7	446.3
37.5°	405.0	408.6	418.1	429.6	434.2
40°	386.4	392.4	402.5	415.6	420.6
42.5°	368.2	374.3	388.0	401.5	406.0
45°	349.1	355.8	370.3	386.9	392.4
47.5°	328.0	335.6	354.2	371.8	377.8
50°	306.3	315.9	336.5	356.3	363.3
52.5°	283.8	295.8	319.5	340.1	346.7
55°	261.7	274.6	301.9	323.0	331.0
57.5°	239.0	253.1	283.8	307.9	312.5
60°	214.3	231.5	265.1	286.2	292.3
62.5°	190.2	209.8	246.0	266.1	271.2
65°	167.1	188.2	226.4	245.0	248.5
67.5°	141.8	167.1	204.7	221.9	222.8
70°	117.8	146.9	183.6	191.6	185.1
72.5°	94.1	125.3	159.0	152.4	146.9
75°	73.5	105.2	129.4	116.2	113.2
77.5°	54.4	86.1	92.6	85.6	80.0
80°	38.7	67.9	62.4	53.3	50.8
82.5°	26.6	42.8	34.3	26.6	23.2
85°	15.2	19.1	12.1	7.5	6.0
87.5°	6.5	4.6	2.5	2.0	2.0
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)