

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: P732441

Luminaire Tested: **14FCZ2-20-HRP-B2750-W2D-CA125-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732441  
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: 14FCZ2-20-HRP-B2750-W2D-CA125-2700K  
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT  
AND HRP LENS, WITH, CA125 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

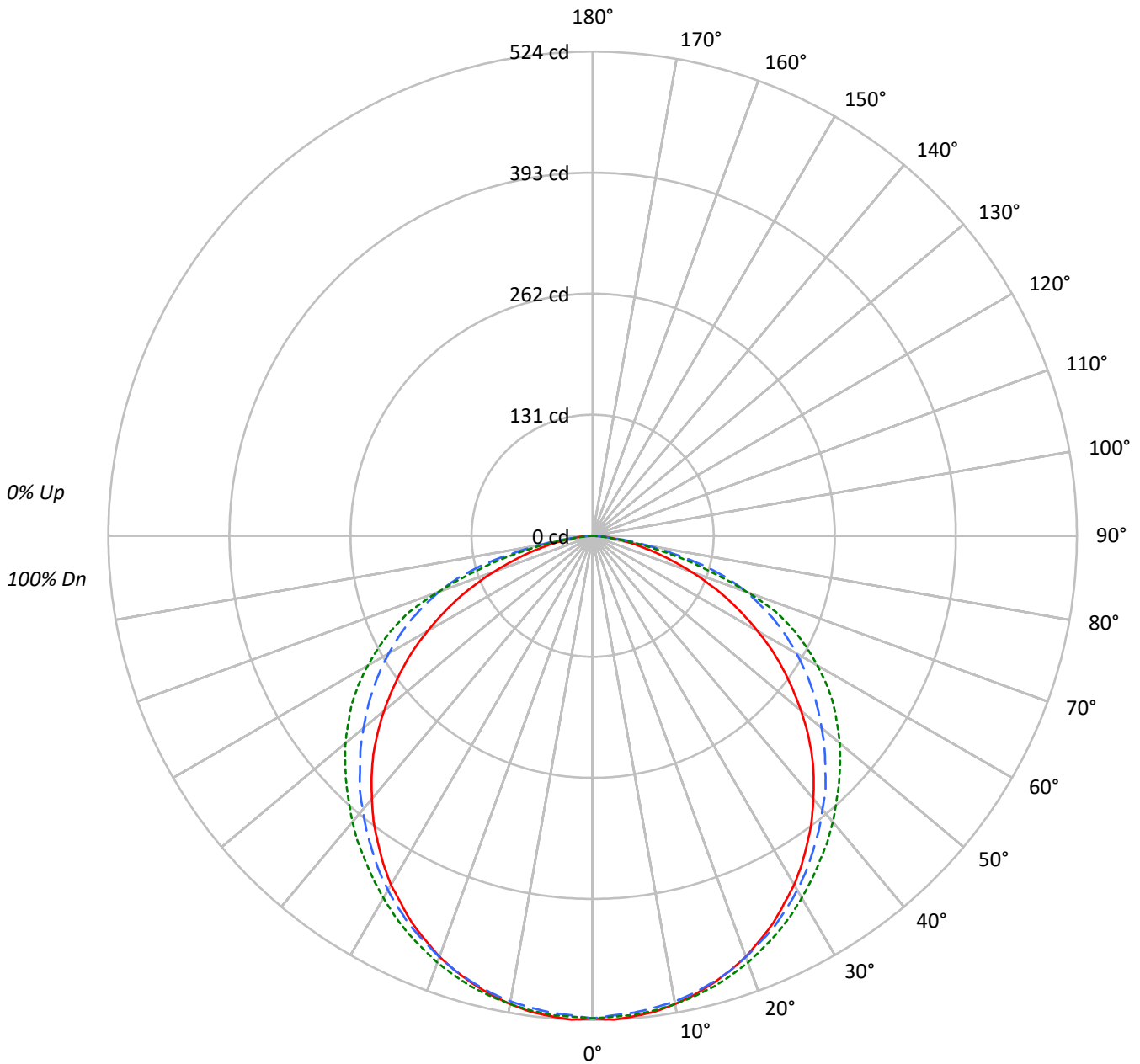
Lumens per Lamp: N/A  
Luminaire Lumens: 1538.0 lumens  
Efficiency: N/A  
Efficacy: 96.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 16  
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°	1474	1474	1474
5°	1479	1468	1475
10°	1475	1467	1475
15°	1466	1463	1477
20°	1456	1457	1476
25°	1440	1452	1476
30°	1422	1444	1475
35°	1396	1433	1478
40°	1369	1426	1490
45°	1340	1421	1506
50°	1293	1421	1533
55°	1238	1428	1566
60°	1163	1438	1586
65°	1073	1453	1596
70°	934	1457	1469
75°	770	1357	1187
80°	605	975	793
85°	473	376	188



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.4	3.2
10°-20°	141.9	9.2
20°-30°	215.5	14.0
30°-40°	261.1	17.0
40°-50°	275.1	17.9
50°-60°	256.8	16.7
60°-70°	205.3	13.3
70°-80°	112.9	7.3
80°-90°	19.9	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°	406.8	26.5
0°-40°	667.9	43.4
0°-60°	1199.9	78.0
0°-90°	1538.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1538.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	522	522	522	522	522	
5°	522	520	518	521	520	50
15°	502	502	501	505	505	142
25°	462	463	466	473	474	213
35°	405	409	416	426	429	254
45°	336	342	356	372	377	258
55°	252	264	290	310	318	224
65°	161	181	218	236	239	158
75°	71	101	124	112	109	76
85°	15	18	12	7	6	18
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	522.3	522.3	522.3	522.3	522.3
2.5°	524.2	522.7	519.4	522.3	520.9
5°	521.9	520.4	518.0	521.4	520.4
7.5°	519.4	517.5	515.0	518.9	518.0
10°	514.5	513.1	511.7	515.0	514.5
12.5°	508.8	508.3	506.8	510.7	510.3
15°	501.6	501.6	500.6	505.4	505.4
17.5°	493.7	493.2	493.7	499.1	498.6
20°	484.6	484.6	485.0	491.4	491.4
22.5°	473.4	473.9	475.4	483.1	482.6
25°	462.4	463.3	466.2	472.9	473.9
27.5°	448.8	451.3	454.6	462.8	463.7
30°	436.2	437.7	442.9	450.8	452.6
32.5°	421.3	424.1	430.0	438.7	441.1
35°	405.2	409.2	415.9	426.5	429.0
37.5°	389.3	392.8	401.9	413.0	417.4
40°	371.5	377.2	386.9	399.5	404.3
42.5°	354.0	359.8	372.9	385.9	390.3
45°	335.6	342.0	355.9	372.0	377.2
47.5°	315.3	322.6	340.5	357.4	363.1
50°	294.5	303.7	323.5	342.5	349.2
52.5°	272.8	284.3	307.1	326.9	333.3
55°	251.5	264.0	290.2	310.5	318.2
57.5°	229.7	243.3	272.8	295.9	300.4
60°	206.0	222.5	254.8	275.1	281.0
62.5°	182.9	201.7	236.5	255.8	260.7
65°	160.6	180.9	217.6	235.5	238.9
67.5°	136.3	160.6	196.8	213.3	214.2
70°	113.2	141.2	176.5	184.2	178.0
72.5°	90.4	120.4	152.9	146.5	141.2
75°	70.6	101.1	124.4	111.7	108.8
77.5°	52.3	82.7	89.0	82.2	76.9
80°	37.2	65.2	60.0	51.3	48.8
82.5°	25.6	41.1	32.9	25.6	22.3
85°	14.6	18.4	11.6	7.2	5.8
87.5°	6.2	4.4	2.4	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)