

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: P732584

Luminaire Tested: **14FCZ2-25-HRP-B2750-W2D-CP375-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732584  
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-CP375-4000K  
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT  
AND HRP LENS, WITH, CP375 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

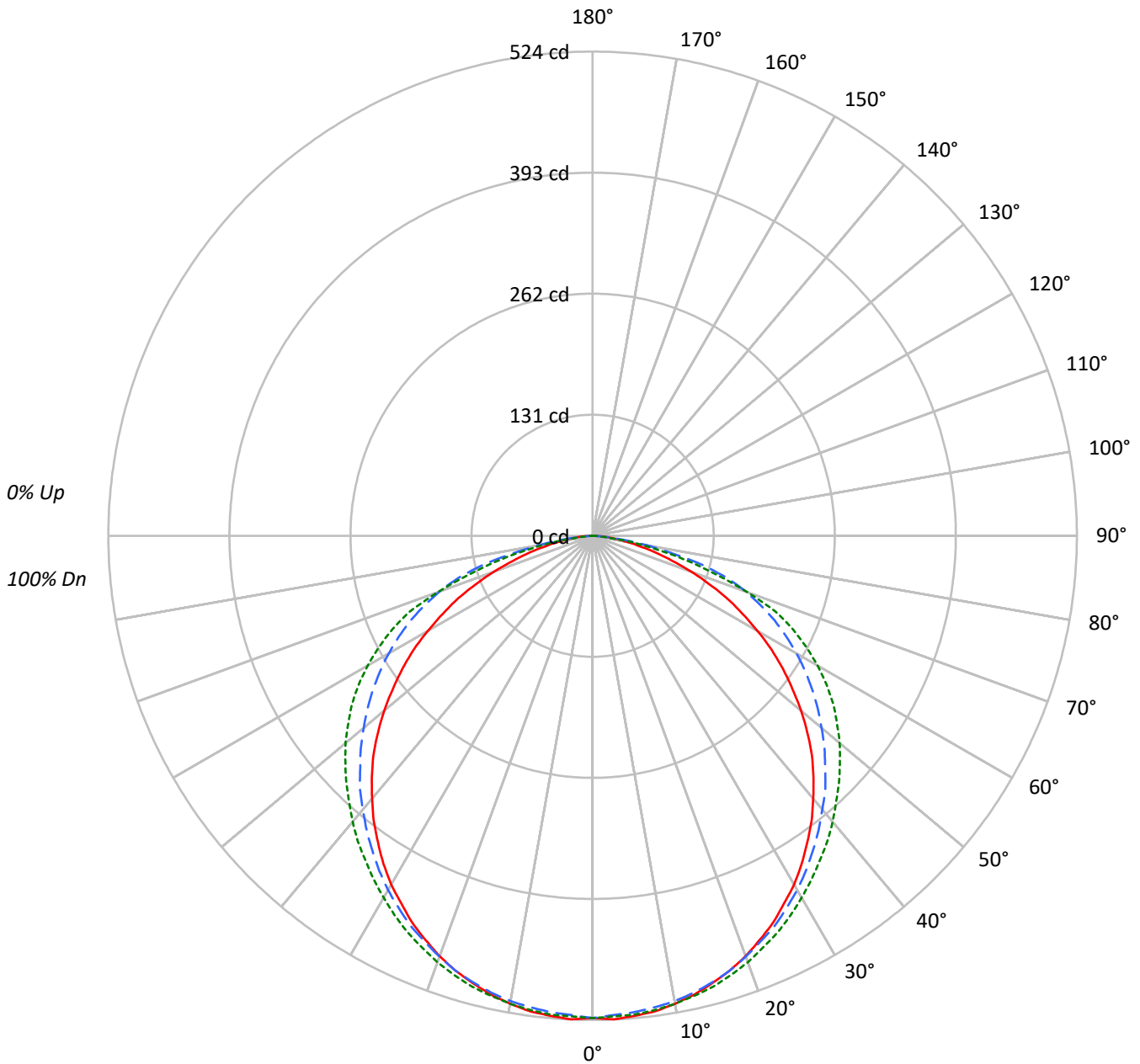
Lumens per Lamp: N/A  
Luminaire Lumens: 1537.0 lumens  
Efficiency: N/A  
Efficacy: 80.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 19  
Input Voltage (V): NR  
Input Current (Ain): 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°	1473	1473	1473
5°	1478	1467	1474
10°	1474	1466	1474
15°	1465	1462	1476
20°	1454	1456	1475
25°	1439	1451	1475
30°	1421	1443	1474
35°	1396	1432	1477
40°	1368	1425	1489
45°	1339	1420	1505
50°	1292	1420	1533
55°	1237	1427	1565
60°	1162	1438	1585
65°	1072	1453	1595
70°	933	1456	1467
75°	770	1356	1185
80°	605	974	793
85°	473	376	185



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.4	3.2
10°-20°	141.8	9.2
20°-30°	215.3	14.0
30°-40°	260.9	17.0
40°-50°	274.9	17.9
50°-60°	256.7	16.7
60°-70°	205.1	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°	406.5	26.4
0°-40°	667.5	43.4
0°-60°	1199.1	78.0
0°-90°	1537.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1537.0	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°	501	501	500	505	505	141
25°	462	463	466	473	474	213
35°	405	409	416	426	429	253
45°	335	342	356	372	377	258
55°	251	264	290	310	318	224
65°	160	181	218	235	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°	521.9	521.9	521.9	521.9	521.9
2.5°	523.9	522.4	519.1	521.9	520.6
5°	521.5	520.1	517.6	521.1	520.1
7.5°	519.1	517.1	514.7	518.6	517.6
10°	514.2	512.7	511.4	514.7	514.2
12.5°	508.5	508.0	506.5	510.4	509.9
15°	501.2	501.2	500.3	505.0	505.0
17.5°	493.4	492.9	493.4	498.8	498.3
20°	484.2	484.2	484.7	491.1	491.1
22.5°	473.1	473.6	475.1	482.8	482.3
25°	462.1	463.0	465.9	472.6	473.6
27.5°	448.5	451.0	454.3	462.5	463.4
30°	435.9	437.4	442.7	450.5	452.3
32.5°	421.0	423.8	429.7	438.4	440.8
35°	405.0	408.9	415.6	426.3	428.7
37.5°	389.1	392.5	401.7	412.7	417.1
40°	371.2	377.0	386.6	399.2	404.0
42.5°	353.7	359.6	372.7	385.7	390.1
45°	335.4	341.7	355.7	371.7	377.0
47.5°	315.1	322.4	340.3	357.2	362.9
50°	294.3	303.5	323.3	342.2	349.0
52.5°	272.6	284.1	306.9	326.7	333.1
55°	251.4	263.8	290.0	310.3	318.0
57.5°	229.6	243.2	272.6	295.8	300.2
60°	205.9	222.4	254.7	275.0	280.8
62.5°	182.7	201.6	236.3	255.6	260.5
65°	160.5	180.8	217.5	235.3	238.8
67.5°	136.3	160.5	196.7	213.2	214.0
70°	113.1	141.1	176.4	184.1	177.8
72.5°	90.4	120.4	152.8	146.4	141.1
75°	70.6	101.0	124.3	111.7	108.7
77.5°	52.2	82.7	88.9	82.2	76.8
80°	37.2	65.2	59.9	51.2	48.8
82.5°	25.6	41.1	32.9	25.6	22.3
85°	14.6	18.3	11.6	7.2	5.7
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)