

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: P732528

Luminaire Tested: **14FCZ2-20-SQR-B2750-W2D-CP250-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732528  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387389)  
Test Lab: INNOVATIONS CENTER(G2)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 14FCZ2-20-SQR-B2750-W2D-CP250-3500K  
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT  
AND SQR LENS, WITH, CP250 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

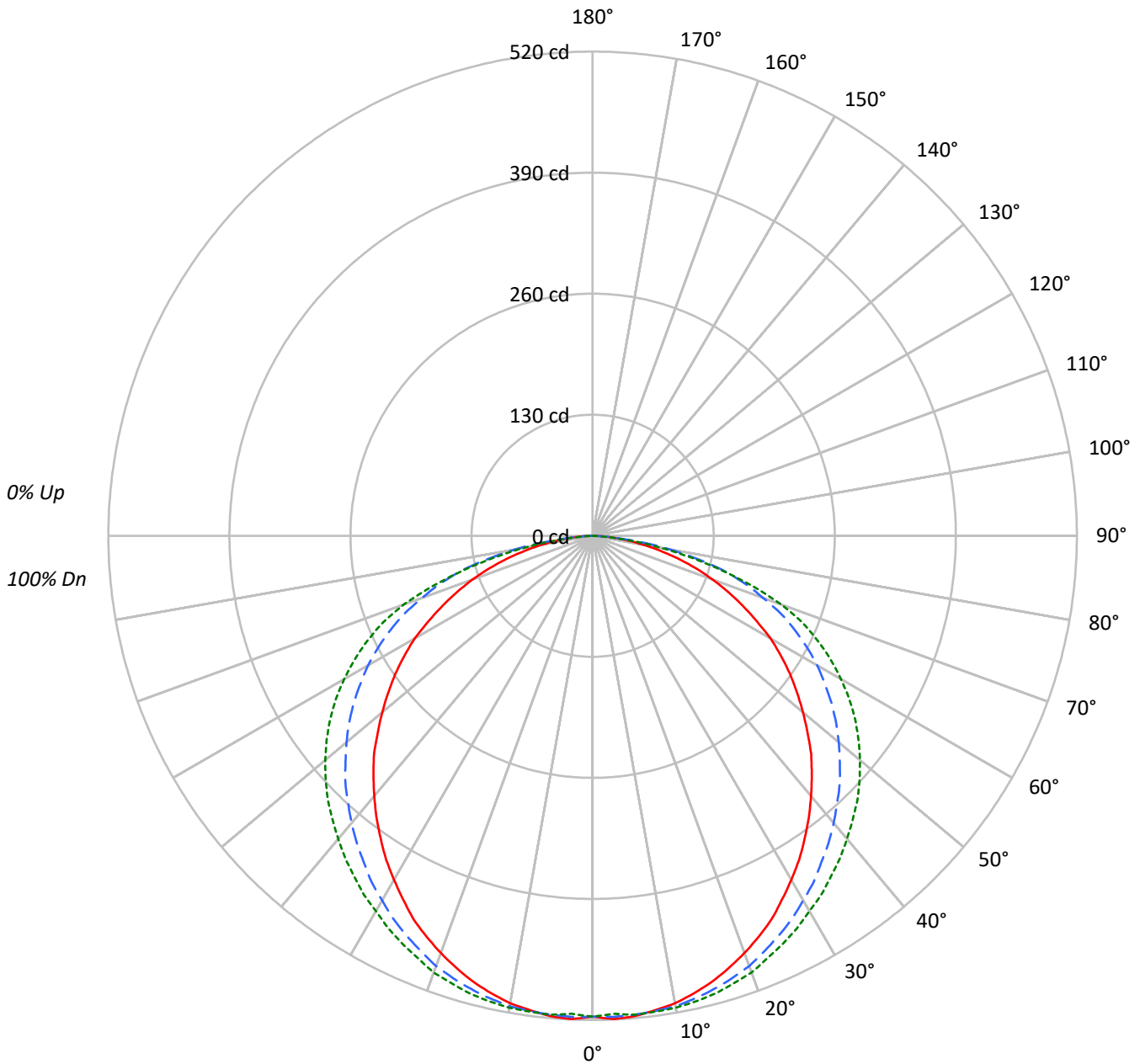
Lumens per Lamp: N/A  
Luminaire Lumens: 1634.0 lumens  
Efficiency: N/A  
Efficacy: 102.1 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83																			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56																			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	51	60	54	50	48																			
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41																			
6	68	55	45	39	67	54	45	39	52	44	38	50	43	38	49	42	38	35																			
7	63	49	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28																			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25																			
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1458	1458	1458
5°	1468	1463	1463
10°	1461	1471	1475
15°	1449	1473	1487
20°	1432	1477	1499
25°	1416	1475	1506
30°	1390	1474	1517
35°	1368	1476	1538
40°	1344	1484	1566
45°	1325	1499	1604
50°	1295	1515	1645
55°	1273	1540	1694
60°	1246	1572	1739
65°	1188	1600	1783
70°	1128	1604	1781
75°	1033	1599	1572
80°	883	1365	1219
85°	693	774	453



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.1	3.0
10°-20°	141.8	8.7
20°-30°	216.8	13.3
30°-40°	265.7	16.3
40°-50°	285.8	17.5
50°-60°	274.6	16.8
60°-70°	228.7	14.0
70°-80°	140.4	8.6
80°-90°	31.3	1.9
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°	407.6	24.9
0°-40°	673.3	41.2
0°-60°	1233.7	75.5
0°-90°	1634.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1634.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	516	516	516	516	516	
5°	518	513	516	516	516	49
15°	496	494	504	507	509	140
25°	455	459	474	479	483	209
35°	397	407	428	440	446	248
45°	332	347	376	393	402	255
55°	259	281	313	334	344	231
65°	178	205	240	260	267	176
75°	95	124	147	146	144	100
85°	21	32	24	16	14	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	516.4	516.4	516.4	516.4	516.4
2.5°	519.6	514.7	517.2	516.4	513.9
5°	518.0	513.1	516.4	516.4	516.4
7.5°	513.9	509.8	514.7	515.5	515.5
10°	509.8	506.5	513.1	513.9	514.7
12.5°	503.2	500.7	509.0	510.6	512.2
15°	495.8	494.2	504.0	507.3	509.0
17.5°	486.7	487.5	498.3	502.4	504.0
20°	476.8	479.3	491.7	495.8	499.1
22.5°	466.1	469.4	482.6	487.5	490.8
25°	454.6	458.7	473.5	479.3	483.4
27.5°	440.5	447.2	463.7	471.1	475.2
30°	426.6	434.0	452.2	461.2	465.3
32.5°	412.6	420.8	441.4	450.5	457.1
35°	396.9	406.9	428.2	439.7	446.4
37.5°	381.3	392.8	415.9	429.0	436.4
40°	364.8	377.2	402.7	417.5	424.9
42.5°	348.3	362.4	388.7	405.2	413.4
45°	331.9	346.7	375.5	392.8	401.9
47.5°	313.0	331.1	359.9	379.6	388.7
50°	294.8	314.6	345.0	365.7	374.7
52.5°	276.7	297.3	329.4	350.8	359.9
55°	258.6	280.8	313.0	334.3	344.2
57.5°	239.6	262.7	295.6	317.9	326.9
60°	220.7	244.6	278.4	298.9	308.0
62.5°	198.4	226.5	259.5	280.0	288.2
65°	177.9	205.0	239.6	259.5	266.9
67.5°	157.3	185.3	219.1	237.2	243.7
70°	136.7	164.8	194.3	211.7	215.8
72.5°	116.1	144.1	172.2	182.0	180.4
75°	94.7	123.6	146.6	145.8	144.1
77.5°	74.2	102.1	116.1	110.3	107.9
80°	54.3	81.6	84.0	78.3	75.0
82.5°	37.1	58.4	52.7	46.1	42.8
85°	21.4	32.1	23.9	16.4	14.0
87.5°	9.0	8.2	2.5	2.5	1.6
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)