

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: P732519

Luminaire Tested: **14FCZ2-20-SQR-B2750-W2D-CA125-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732519  
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-CA125-4000K  
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT  
AND SQR LENS, WITH, CA125 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

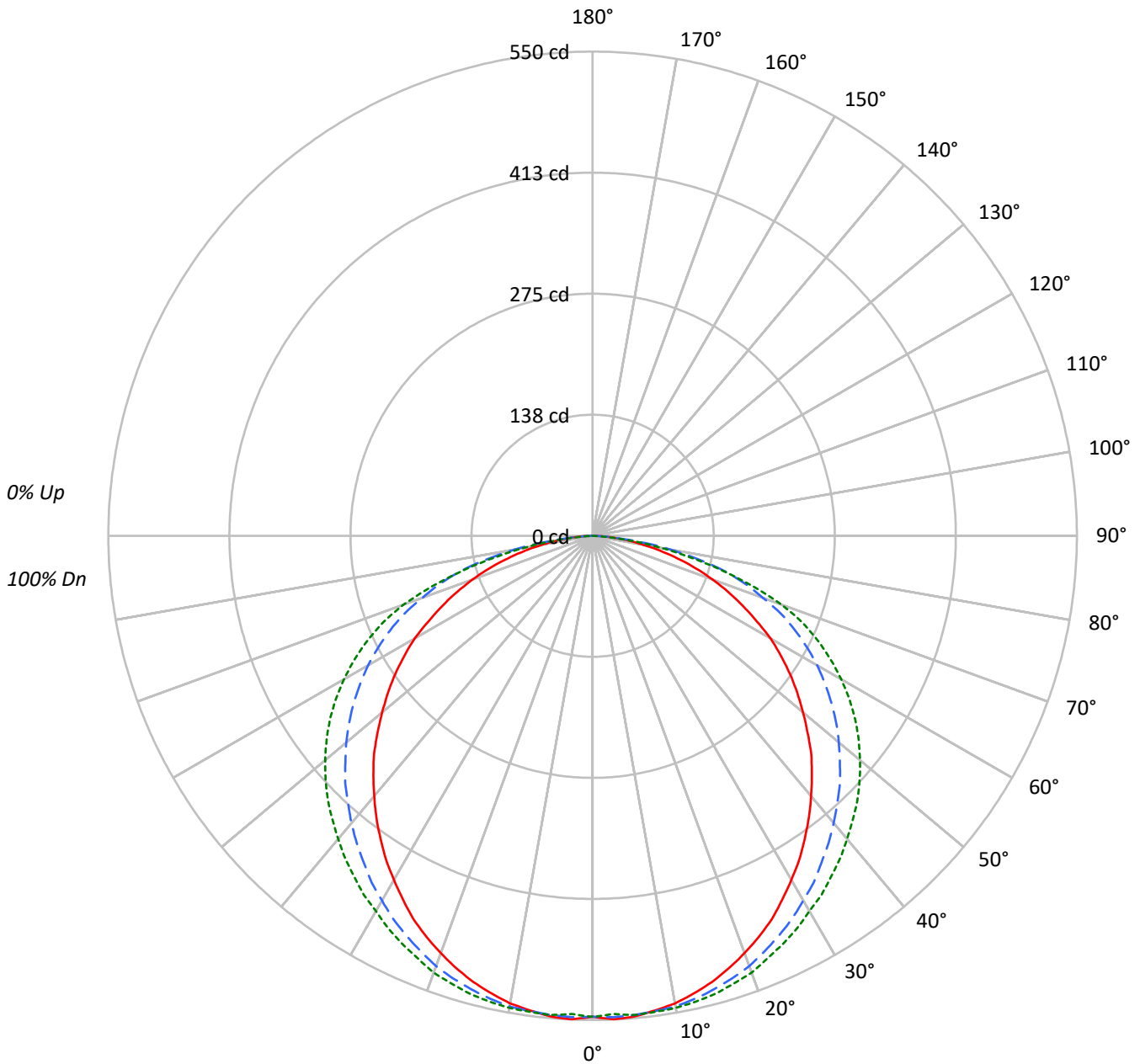
Lumens per Lamp: N/A  
Luminaire Lumens: 1729.0 lumens  
Efficiency: N/A  
Efficacy: 108.1 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	1542	1542	1542
5°	1553	1548	1548
10°	1546	1556	1561
15°	1533	1558	1574
20°	1515	1563	1586
25°	1498	1560	1593
30°	1471	1560	1605
35°	1447	1561	1627
40°	1422	1570	1657
45°	1402	1586	1697
50°	1370	1603	1741
55°	1346	1630	1792
60°	1318	1663	1840
65°	1257	1693	1886
70°	1193	1697	1884
75°	1093	1692	1663
80°	935	1445	1289
85°	735	816	479



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.9	3.0
10°-20°	150.0	8.7
20°-30°	229.4	13.3
30°-40°	281.2	16.3
40°-50°	302.4	17.5
50°-60°	290.6	16.8
60°-70°	242.0	14.0
70°-80°	148.5	8.6
80°-90°	33.1	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°	431.3	24.9
0°-40°	712.5	41.2
0°-60°	1305.5	75.5
0°-90°	1729.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1729.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	546	546	546	546	546	
5°	548	543	546	546	546	52
15°	525	523	533	537	539	148
25°	481	485	501	507	512	221
35°	420	430	453	465	472	263
45°	351	367	397	416	425	270
55°	274	297	331	354	364	244
65°	188	217	254	274	282	186
75°	100	131	155	154	152	106
85°	23	34	25	17	15	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	546.4	546.4	546.4	546.4	546.4
2.5°	549.8	544.6	547.3	546.4	543.8
5°	548.1	542.9	546.4	546.4	546.4
7.5°	543.8	539.4	544.6	545.5	545.5
10°	539.4	535.9	542.9	543.8	544.6
12.5°	532.4	529.8	538.6	540.3	542.0
15°	524.6	522.9	533.3	536.8	538.6
17.5°	515.0	515.9	527.2	531.6	533.3
20°	504.5	507.2	520.2	524.6	528.1
22.5°	493.2	496.7	510.7	515.9	519.4
25°	481.0	485.3	501.0	507.2	511.5
27.5°	466.2	473.2	490.6	498.5	502.8
30°	451.4	459.3	478.5	488.0	492.3
32.5°	436.6	445.3	467.1	476.7	483.7
35°	420.0	430.5	453.1	465.3	472.3
37.5°	403.5	415.7	440.1	454.0	461.8
40°	386.0	399.1	426.1	441.8	449.6
42.5°	368.6	383.4	411.3	428.7	437.4
45°	351.2	366.9	397.3	415.7	425.2
47.5°	331.2	350.4	380.8	401.7	411.3
50°	312.0	332.9	365.1	386.9	396.5
52.5°	292.8	314.6	348.6	371.2	380.8
55°	273.6	297.1	331.2	353.8	364.2
57.5°	253.5	277.9	312.8	336.4	345.9
60°	233.5	258.8	294.6	316.3	325.9
62.5°	210.0	239.7	274.5	296.3	305.0
65°	188.2	217.0	253.5	274.5	282.4
67.5°	166.5	196.1	231.8	251.0	257.9
70°	144.6	174.3	205.6	224.0	228.3
72.5°	122.9	152.5	182.2	192.6	190.9
75°	100.2	130.7	155.1	154.3	152.5
77.5°	78.5	108.1	122.9	116.8	114.2
80°	57.5	86.3	88.9	82.8	79.3
82.5°	39.2	61.8	55.8	48.8	45.3
85°	22.7	33.9	25.2	17.4	14.8
87.5°	9.5	8.7	2.7	2.7	1.7
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)