

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: P732517

Luminaire Tested: **14FCZ2-20-SQR-B2750-W2D-CA125-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732517  
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-CA125-3000K  
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT  
AND SQR LENS, WITH, CA125 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

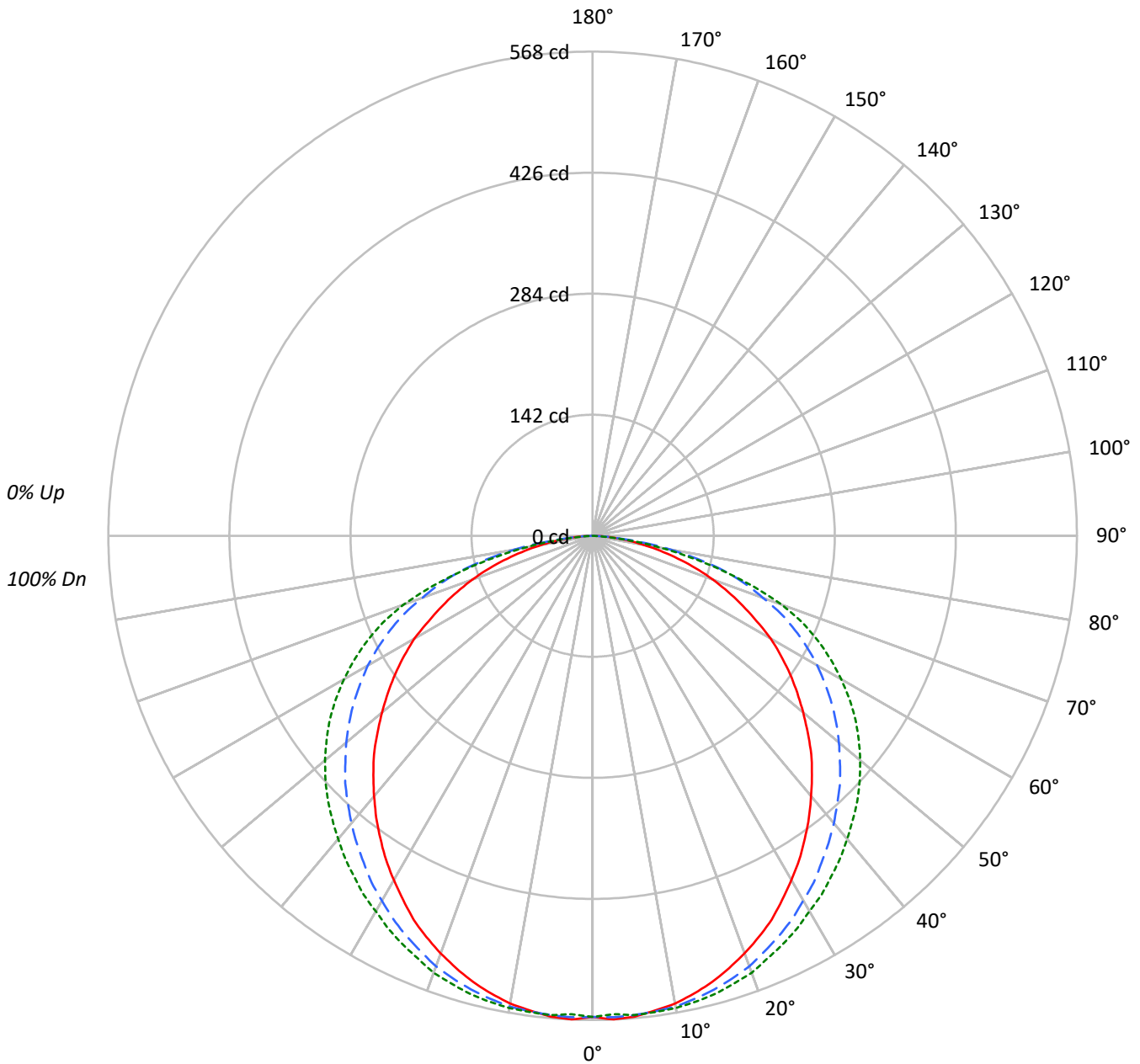
Lumens per Lamp: N/A  
Luminaire Lumens: 1786.0 lumens  
Efficiency: N/A  
Efficacy: 111.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	1593	1593	1593
5°	1604	1599	1599
10°	1597	1607	1613
15°	1584	1610	1626
20°	1566	1614	1639
25°	1548	1612	1646
30°	1520	1611	1658
35°	1495	1613	1681
40°	1469	1622	1711
45°	1448	1638	1753
50°	1415	1656	1799
55°	1391	1684	1852
60°	1362	1718	1900
65°	1298	1749	1948
70°	1233	1753	1946
75°	1129	1748	1718
80°	966	1492	1331
85°	758	845	496



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.6	3.0
10°-20°	154.9	8.7
20°-30°	237.0	13.3
30°-40°	290.4	16.3
40°-50°	312.3	17.5
50°-60°	300.2	16.8
60°-70°	249.9	14.0
70°-80°	153.4	8.6
80°-90°	34.2	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°	445.5	24.9
0°-40°	736.0	41.2
0°-60°	1348.5	75.5
0°-90°	1786.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1786.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	564	564	564	564	564	
5°	566	561	564	564	564	54
15°	542	540	551	554	556	153
25°	497	501	518	524	528	229
35°	434	445	468	481	488	272
45°	363	379	410	429	439	279
55°	283	307	342	365	376	252
65°	194	224	262	284	292	193
75°	104	135	160	159	158	110
85°	23	35	26	18	15	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	564.4	564.4	564.4	564.4	564.4
2.5°	567.9	562.6	565.3	564.4	561.7
5°	566.2	560.8	564.4	564.4	564.4
7.5°	561.7	557.2	562.6	563.5	563.5
10°	557.2	553.6	560.8	561.7	562.6
12.5°	550.0	547.2	556.3	558.1	559.8
15°	541.9	540.1	550.9	554.5	556.3
17.5°	532.0	532.9	544.6	549.1	550.9
20°	521.2	523.9	537.4	541.9	545.5
22.5°	509.5	513.1	527.5	532.9	536.5
25°	496.9	501.3	517.6	523.9	528.4
27.5°	481.5	488.8	506.8	514.9	519.4
30°	466.3	474.4	494.2	504.1	508.6
32.5°	451.0	459.9	482.5	492.4	499.6
35°	433.9	444.7	468.0	480.6	487.9
37.5°	416.8	429.4	454.6	468.9	477.0
40°	398.7	412.3	440.1	456.3	464.4
42.5°	380.7	396.1	424.9	442.9	451.8
45°	362.8	379.0	410.4	429.4	439.2
47.5°	342.1	361.9	393.3	414.9	424.9
50°	322.3	343.8	377.1	399.7	409.6
52.5°	302.4	325.0	360.0	383.5	393.3
55°	282.6	306.9	342.1	365.4	376.3
57.5°	261.9	287.1	323.1	347.4	357.3
60°	241.2	267.4	304.3	326.7	336.6
62.5°	216.9	247.6	283.6	306.0	315.0
65°	194.4	224.1	261.9	283.6	291.7
67.5°	172.0	202.5	239.4	259.3	266.4
70°	149.4	180.1	212.4	231.3	235.8
72.5°	127.0	157.5	188.2	198.9	197.2
75°	103.5	135.1	160.3	159.4	157.5
77.5°	81.1	111.6	127.0	120.6	118.0
80°	59.4	89.2	91.8	85.5	81.9
82.5°	40.5	63.9	57.6	50.4	46.8
85°	23.4	35.1	26.1	18.0	15.3
87.5°	9.9	9.0	2.7	2.7	1.8
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)