

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: P732515

Luminaire Tested: **14FCZ2-20-SQR-B2750-W2D-CA08-5000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732515  
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-CA08-5000K  
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT  
AND SQR LENS, WITH, CA08 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

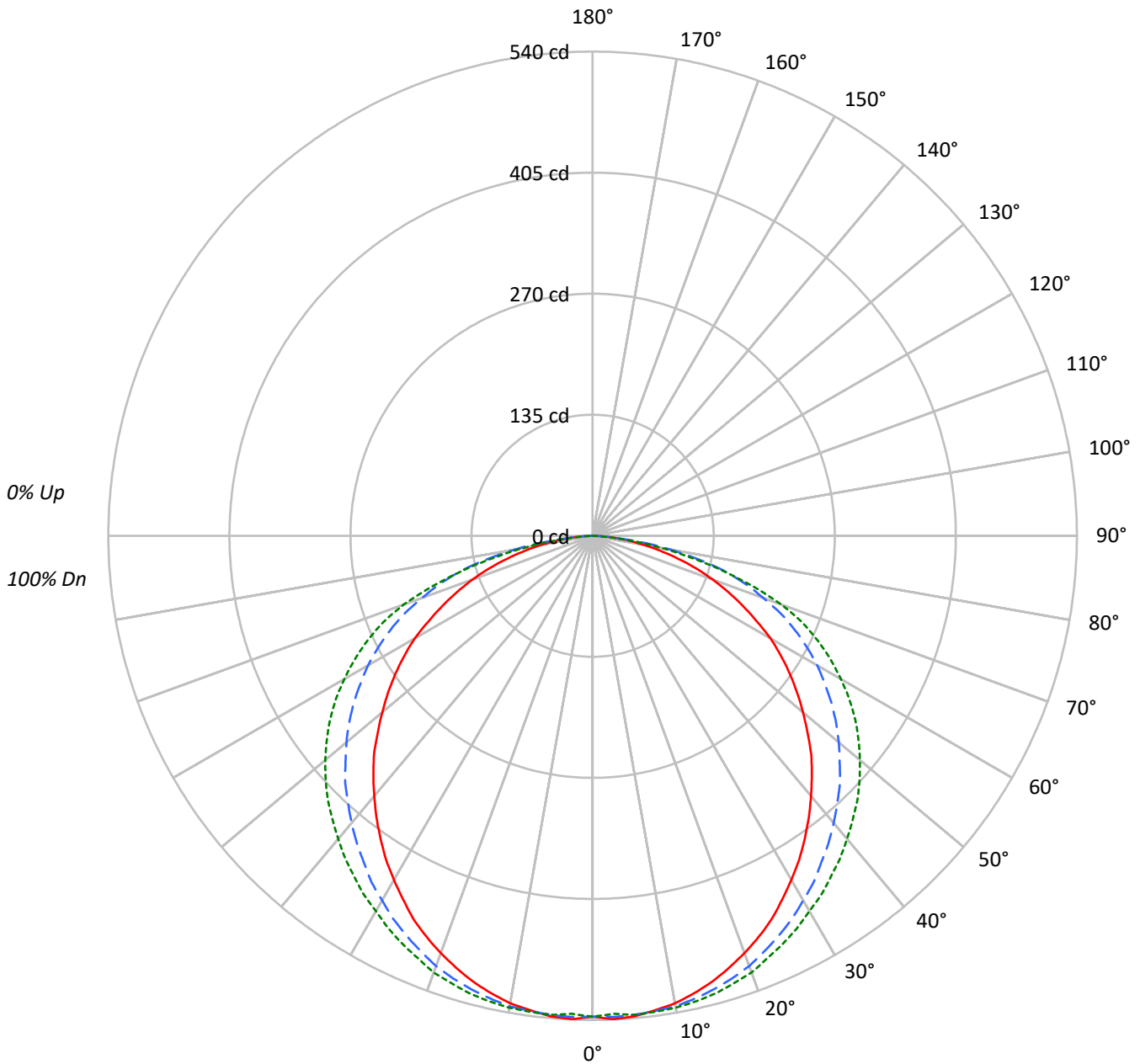
Lumens per Lamp: N/A  
Luminaire Lumens: 1697.0 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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					20					
RC	80					70					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°	1514	1514	1514
5°	1524	1520	1520
10°	1517	1527	1532
15°	1505	1530	1545
20°	1487	1534	1557
25°	1470	1532	1564
30°	1444	1531	1575
35°	1421	1532	1597
40°	1396	1541	1626
45°	1376	1557	1666
50°	1345	1573	1709
55°	1321	1599	1759
60°	1294	1632	1805
65°	1234	1662	1851
70°	1172	1665	1849
75°	1073	1661	1633
80°	917	1417	1266
85°	722	803	473



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.0	3.0
10°-20°	147.2	8.7
20°-30°	225.1	13.3
30°-40°	276.0	16.3
40°-50°	296.8	17.5
50°-60°	285.2	16.8
60°-70°	237.5	14.0
70°-80°	145.8	8.6
80°-90°	32.5	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°	423.3	24.9
0°-40°	699.3	41.2
0°-60°	1281.3	75.5
0°-90°	1697.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1697.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	536	536	536	536	536	
5°	538	533	536	536	536	51
15°	515	513	523	527	529	145
25°	472	476	492	498	502	217
35°	412	423	445	457	464	258
45°	345	360	390	408	417	265
55°	268	292	325	347	358	240
65°	185	213	249	270	277	183
75°	98	128	152	151	150	104
85°	22	33	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°	536.3	536.3	536.3	536.3	536.3
2.5°	539.6	534.5	537.1	536.3	533.7
5°	538.0	532.9	536.3	536.3	536.3
7.5°	533.7	529.4	534.5	535.4	535.4
10°	529.4	526.0	532.9	533.7	534.5
12.5°	522.6	520.0	528.6	530.3	531.9
15°	514.9	513.2	523.4	526.8	528.6
17.5°	505.5	506.3	517.5	521.7	523.4
20°	495.2	497.8	510.6	514.9	518.3
22.5°	484.1	487.5	501.2	506.3	509.8
25°	472.1	476.4	491.8	497.8	502.1
27.5°	457.5	464.4	481.6	489.3	493.5
30°	443.1	450.8	469.6	479.0	483.2
32.5°	428.5	437.0	458.5	467.8	474.7
35°	412.3	422.6	444.7	456.7	463.6
37.5°	396.0	408.0	431.9	445.6	453.3
40°	378.8	391.7	418.2	433.6	441.3
42.5°	361.8	376.3	403.7	420.8	429.3
45°	344.7	360.1	390.0	408.0	417.4
47.5°	325.0	343.9	373.7	394.2	403.7
50°	306.2	326.7	358.3	379.8	389.1
52.5°	287.4	308.8	342.1	364.4	373.7
55°	268.5	291.6	325.0	347.2	357.5
57.5°	248.9	272.8	307.0	330.1	339.5
60°	229.2	254.1	289.1	310.5	319.8
62.5°	206.1	235.2	269.5	290.8	299.3
65°	184.7	212.9	248.9	269.5	277.2
67.5°	163.4	192.4	227.5	246.4	253.1
70°	142.0	171.1	201.8	219.8	224.1
72.5°	120.6	149.7	178.8	189.0	187.3
75°	98.4	128.3	152.3	151.4	149.7
77.5°	77.0	106.1	120.6	114.6	112.1
80°	56.4	84.7	87.2	81.3	77.9
82.5°	38.5	60.7	54.7	47.9	44.4
85°	22.3	33.3	24.8	17.1	14.6
87.5°	9.4	8.5	2.6	2.6	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)