

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: P732526

Luminaire Tested: **14FCZ2-20-SQR-B2750-W2D-CP250-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732526  
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-CP250-2700K  
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT  
AND SQR LENS, WITH, CP250 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

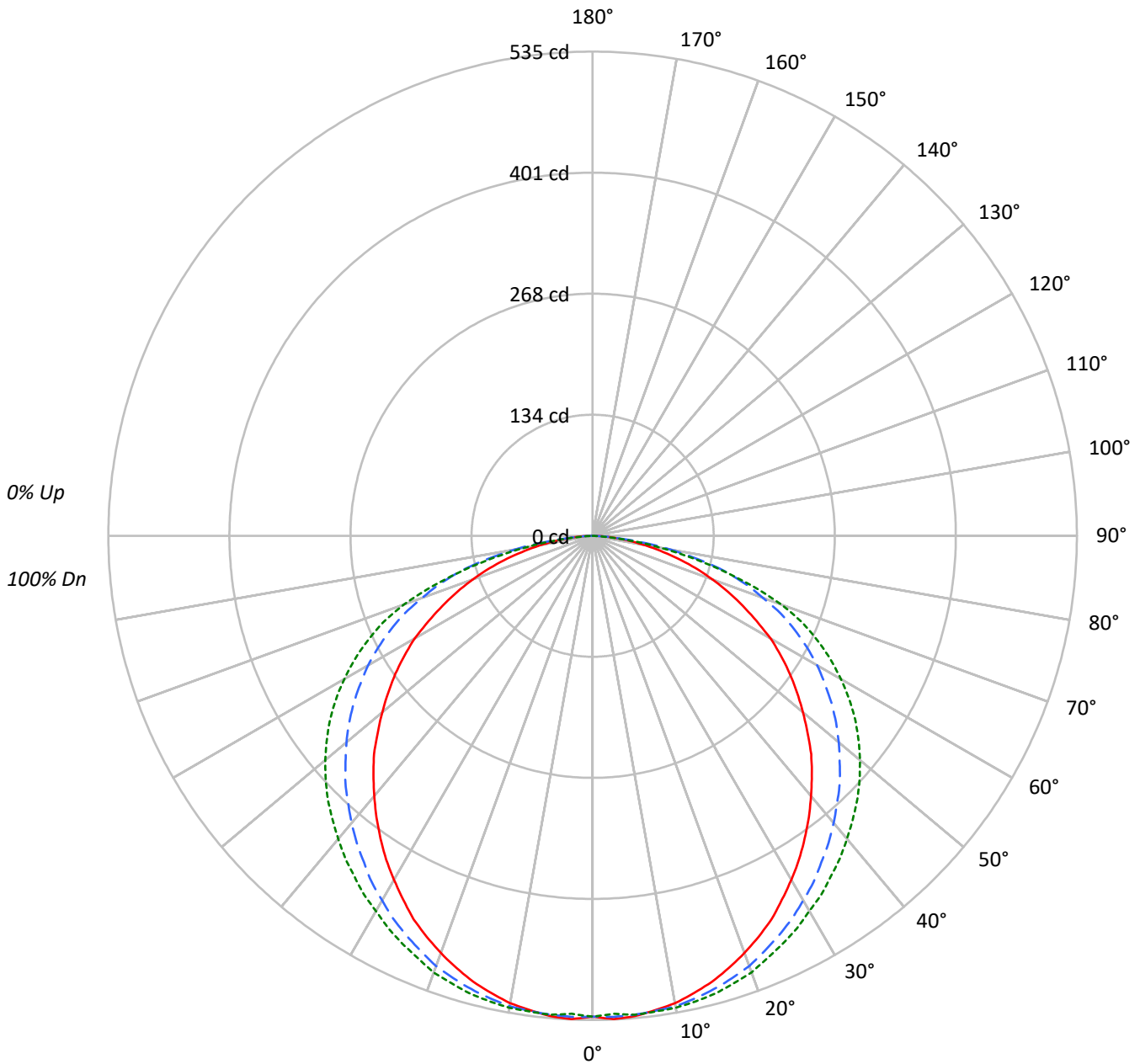
Lumens per Lamp: N/A  
Luminaire Lumens: 1681.0 lumens  
Efficiency: N/A  
Efficacy: 105.1 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	1500	1500	1500
5°	1510	1505	1505
10°	1503	1513	1518
15°	1490	1515	1530
20°	1473	1519	1542
25°	1456	1517	1549
30°	1431	1516	1560
35°	1407	1518	1582
40°	1383	1526	1611
45°	1363	1542	1650
50°	1332	1559	1693
55°	1309	1585	1743
60°	1281	1617	1788
65°	1222	1646	1833
70°	1160	1650	1832
75°	1062	1645	1617
80°	909	1404	1253
85°	716	793	466



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.5	3.0
10°-20°	145.8	8.7
20°-30°	223.0	13.3
30°-40°	273.4	16.3
40°-50°	294.0	17.5
50°-60°	282.5	16.8
60°-70°	235.2	14.0
70°-80°	144.4	8.6
80°-90°	32.2	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°	419.3	24.9
0°-40°	692.7	41.2
0°-60°	1269.2	75.5
0°-90°	1681.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1681.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	531	531	531	531	531	
5°	533	528	531	531	531	51
15°	510	508	518	522	524	144
25°	468	472	487	493	497	215
35°	408	419	440	452	459	256
45°	342	357	386	404	413	263
55°	266	289	322	344	354	238
65°	183	211	246	267	274	181
75°	97	127	151	150	148	103
85°	22	33	24	17	14	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	531.3	531.3	531.3	531.3	531.3
2.5°	534.6	529.5	532.1	531.3	528.7
5°	532.9	527.9	531.3	531.3	531.3
7.5°	528.7	524.5	529.5	530.3	530.3
10°	524.5	521.1	527.9	528.7	529.5
12.5°	517.6	515.1	523.6	525.3	526.9
15°	510.0	508.4	518.5	521.9	523.6
17.5°	500.7	501.6	512.6	516.8	518.5
20°	490.5	493.1	505.8	510.0	513.4
22.5°	479.5	482.9	496.5	501.6	505.0
25°	467.6	471.9	487.1	493.1	497.3
27.5°	453.2	460.0	477.0	484.7	488.9
30°	438.9	446.5	465.2	474.5	478.7
32.5°	424.4	432.9	454.1	463.4	470.2
35°	408.4	418.6	440.5	452.4	459.2
37.5°	392.3	404.1	427.9	441.4	449.0
40°	375.3	388.1	414.2	429.5	437.1
42.5°	358.4	372.8	399.9	416.8	425.3
45°	341.5	356.7	386.3	404.1	413.4
47.5°	322.0	340.6	370.2	390.5	399.9
50°	303.3	323.6	355.0	376.2	385.5
52.5°	284.6	305.9	338.9	360.9	370.2
55°	266.0	288.9	322.0	343.9	354.1
57.5°	246.5	270.2	304.1	327.0	336.3
60°	227.0	251.7	286.4	307.5	316.8
62.5°	204.1	233.0	266.9	288.1	296.5
65°	183.0	210.9	246.5	266.9	274.5
67.5°	161.9	190.6	225.4	244.0	250.7
70°	140.6	169.5	199.9	217.7	222.0
72.5°	119.5	148.3	177.1	187.2	185.6
75°	97.4	127.1	150.8	150.0	148.3
77.5°	76.3	105.1	119.5	113.5	111.0
80°	55.9	83.9	86.4	80.5	77.1
82.5°	38.1	60.1	54.2	47.4	44.0
85°	22.1	33.0	24.5	16.9	14.4
87.5°	9.3	8.5	2.6	2.6	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)