

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: P732501

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732501  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275670)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 14FCZ2-20-S-B2750-W2D-CP250-2700K  
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT  
AND SMOOTH LENS, WITH, CP250 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

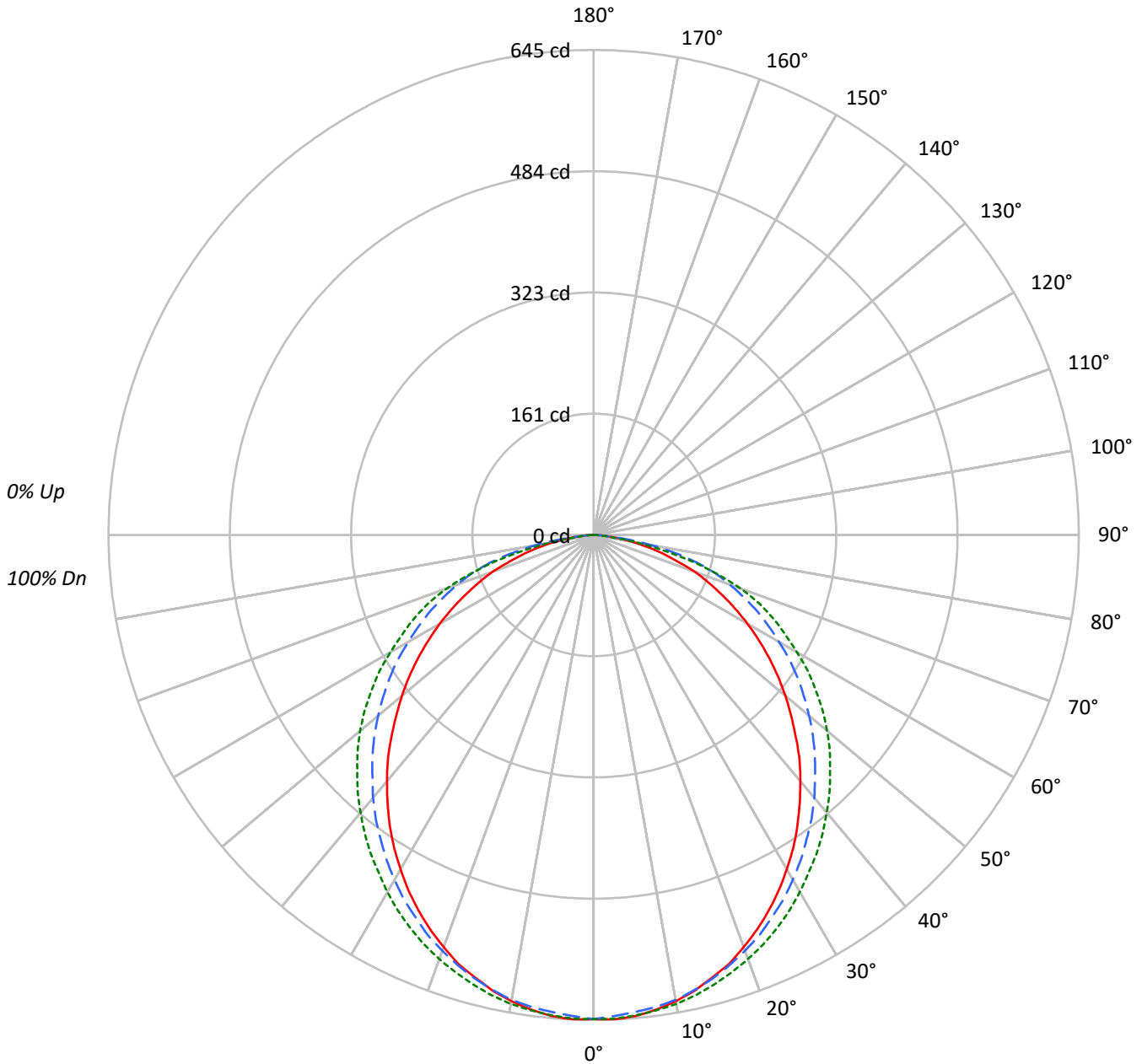
Lumens per Lamp: N/A  
Luminaire Lumens: 1804.0 lumens  
Efficiency: N/A  
Efficacy: 112.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84																			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70																			
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58																			
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50																			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43																			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38																			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33																			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30																			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27																			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24																			

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

	0°	45°	90°
0°	1818	1818	1818
5°	1820	1805	1817
10°	1805	1800	1815
15°	1780	1785	1809
20°	1752	1768	1803
25°	1716	1747	1797
30°	1673	1726	1787
35°	1627	1701	1782
40°	1575	1681	1776
45°	1517	1660	1774
50°	1461	1641	1779
55°	1400	1629	1774
60°	1333	1606	1762
65°	1255	1601	1763
70°	1181	1587	1712
75°	1024	1552	1462
80°	829	1250	975
85°	551	434	291



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.8	3.4
10°-20°	173.0	9.6
20°-30°	259.6	14.4
30°-40°	309.6	17.2
40°-50°	320.1	17.7
50°-60°	292.3	16.2
60°-70°	230.0	12.7
70°-80°	133.9	7.4
80°-90°	24.7	1.4
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°	493.4	27.4
0°-40°	803.1	44.5
0°-60°	1415.5	78.5
0°-90°	1804.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1804.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	644	644	644	644	644	
5°	642	640	637	642	641	61
15°	609	610	611	619	619	172
25°	551	554	561	574	577	254
35°	472	478	494	512	517	295
45°	380	393	416	439	444	294
55°	284	300	331	355	360	254
65°	188	208	240	258	264	187
75°	94	116	142	140	134	100
85°	17	24	13	11	9	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	644.0	644.0	644.0	644.0	644.0
2.5°	644.9	643.1	640.4	644.9	644.0
5°	642.2	640.4	636.9	642.2	641.3
7.5°	636.9	635.0	633.3	638.6	637.8
10°	629.6	628.8	627.9	634.1	633.3
12.5°	620.8	620.8	619.9	627.0	627.0
15°	609.2	610.0	610.9	618.9	618.9
17.5°	598.4	597.5	600.2	609.2	610.0
20°	583.2	584.9	588.5	599.3	600.2
22.5°	567.9	569.8	576.1	586.8	589.4
25°	551.0	553.7	560.8	574.2	576.9
27.5°	533.1	536.7	546.5	560.8	563.4
30°	513.4	518.7	529.5	545.6	548.3
32.5°	493.7	499.1	512.5	528.6	532.2
35°	472.3	478.5	493.7	512.5	517.0
37.5°	449.9	457.9	475.9	494.6	500.0
40°	427.5	436.5	456.2	475.9	482.1
42.5°	405.2	414.2	435.5	457.9	464.3
45°	380.1	392.7	415.9	439.2	444.5
47.5°	356.0	369.5	395.3	418.6	425.8
50°	332.7	346.1	373.8	398.1	405.2
52.5°	308.6	322.9	352.4	377.5	383.7
55°	284.4	299.6	331.0	355.1	360.5
57.5°	260.3	276.4	308.6	331.9	338.1
60°	236.2	253.2	284.4	307.6	312.1
62.5°	212.0	229.8	262.1	282.7	287.1
65°	187.9	207.5	239.7	258.5	263.9
67.5°	164.6	184.2	215.6	233.4	237.9
70°	143.1	161.0	192.3	205.7	207.5
72.5°	116.3	138.6	169.0	176.2	171.7
75°	93.9	116.3	142.3	139.5	134.1
77.5°	71.6	93.9	110.9	101.9	94.8
80°	51.0	73.3	76.9	63.5	60.0
82.5°	33.1	51.0	43.0	33.1	26.9
85°	17.0	24.1	13.4	10.7	9.0
87.5°	5.4	3.6	1.8	1.8	0.9
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)