

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: P732494

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732494  
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-CA125-4000K  
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT  
AND SMOOTH LENS, WITH, CA125 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

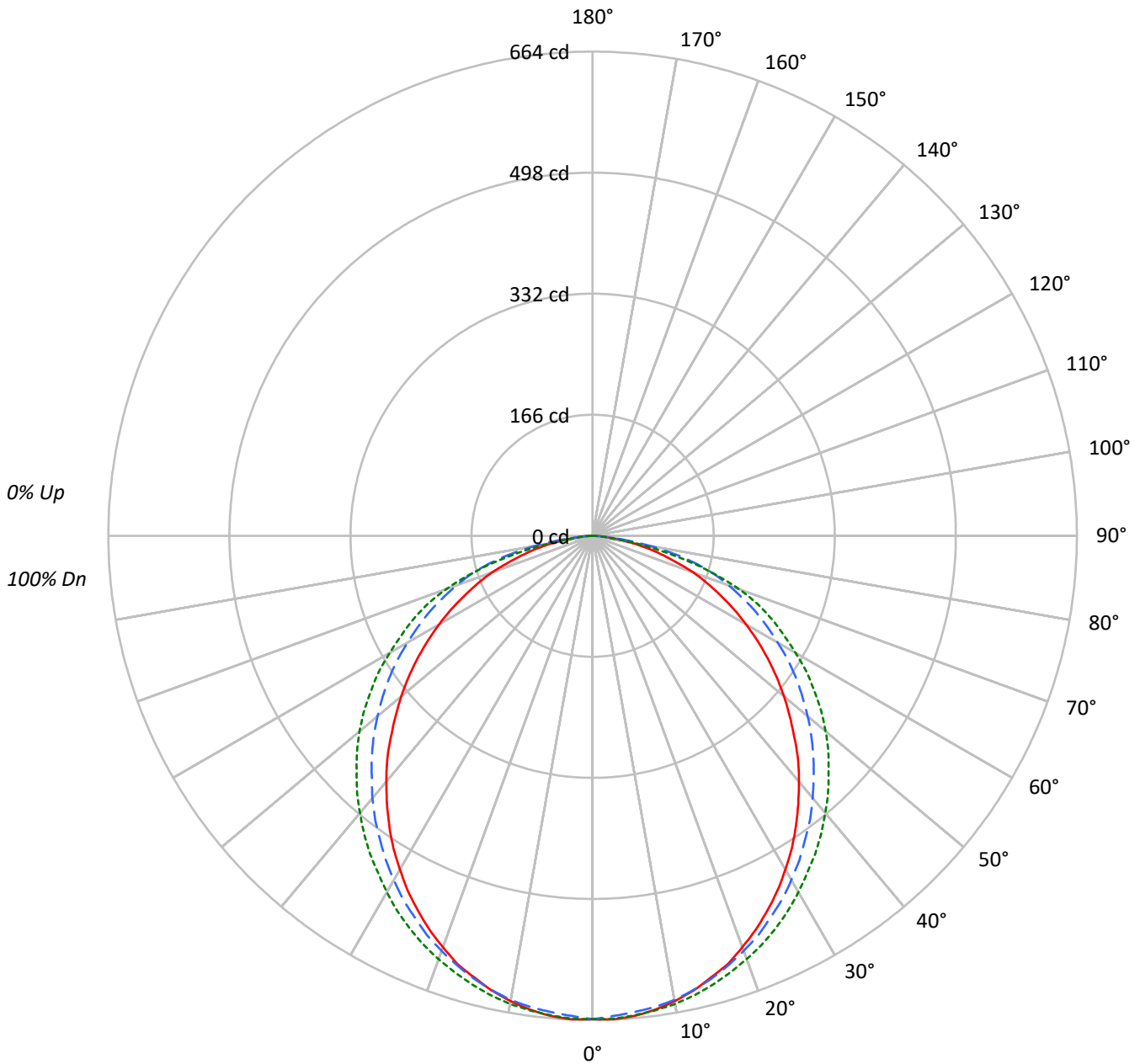
Lumens per Lamp: N/A  
Luminaire Lumens: 1857.0 lumens  
Efficiency: N/A  
Efficacy: 116.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	1871	1871	1871
5°	1873	1858	1870
10°	1858	1852	1868
15°	1832	1838	1862
20°	1803	1820	1856
25°	1766	1798	1850
30°	1722	1776	1840
35°	1675	1751	1834
40°	1622	1730	1829
45°	1562	1709	1827
50°	1504	1690	1832
55°	1441	1677	1826
60°	1372	1653	1814
65°	1292	1648	1815
70°	1216	1634	1763
75°	1055	1597	1506
80°	853	1287	1003
85°	567	447	301



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.6	3.4
10°-20°	178.1	9.6
20°-30°	267.2	14.4
30°-40°	318.7	17.2
40°-50°	329.5	17.7
50°-60°	300.8	16.2
60°-70°	236.8	12.7
70°-80°	137.8	7.4
80°-90°	25.4	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°	507.9	27.4
0°-40°	826.7	44.5
0°-60°	1457.0	78.5
0°-90°	1857.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1857.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	663	663	663	663	663	
5°	661	659	656	661	660	63
15°	627	628	629	637	637	177
25°	567	570	577	591	594	261
35°	486	493	508	528	532	304
45°	391	404	428	452	458	302
55°	293	308	341	366	371	262
65°	193	214	247	266	272	192
75°	97	120	146	144	138	103
85°	18	25	14	11	9	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	662.9	662.9	662.9	662.9	662.9
2.5°	663.8	662.0	659.2	663.8	662.9
5°	661.1	659.2	655.6	661.1	660.1
7.5°	655.6	653.7	651.9	657.4	656.5
10°	648.1	647.2	646.3	652.8	651.9
12.5°	639.0	639.0	638.1	645.4	645.4
15°	627.0	627.9	628.9	637.1	637.1
17.5°	616.0	615.1	617.8	627.0	627.9
20°	600.3	602.1	605.8	616.9	617.8
22.5°	584.6	586.5	593.0	604.0	606.7
25°	567.1	570.0	577.3	591.1	593.9
27.5°	548.8	552.5	562.5	577.3	580.0
30°	528.4	534.0	545.0	561.6	564.4
32.5°	508.2	513.8	527.5	544.1	547.8
35°	486.1	492.6	508.2	527.5	532.2
37.5°	463.1	471.4	489.9	509.2	514.7
40°	440.1	449.4	469.6	489.9	496.3
42.5°	417.1	426.3	448.3	471.4	477.9
45°	391.3	404.2	428.1	452.1	457.6
47.5°	366.4	380.3	406.9	430.9	438.3
50°	342.5	356.3	384.8	409.8	417.1
52.5°	317.7	332.4	362.7	388.5	395.0
55°	292.8	308.4	340.7	365.5	371.1
57.5°	267.9	284.5	317.7	341.6	348.0
60°	243.1	260.6	292.8	316.7	321.3
62.5°	218.2	236.6	269.7	291.0	295.6
65°	193.4	213.6	246.7	266.1	271.7
67.5°	169.5	189.6	221.9	240.3	244.9
70°	147.3	165.7	198.0	211.8	213.6
72.5°	119.7	142.7	174.0	181.4	176.8
75°	96.7	119.7	146.4	143.6	138.1
77.5°	73.7	96.7	114.2	104.9	97.6
80°	52.5	75.5	79.2	65.3	61.7
82.5°	34.1	52.5	44.2	34.1	27.6
85°	17.5	24.8	13.8	11.1	9.3
87.5°	5.5	3.7	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)