

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: P732489

Luminaire Tested: **14FCZ2-20-S-B2750-W2D-CA08-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732489  
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-CA08-4000K  
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT  
AND SMOOTH LENS, WITH, CA08 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

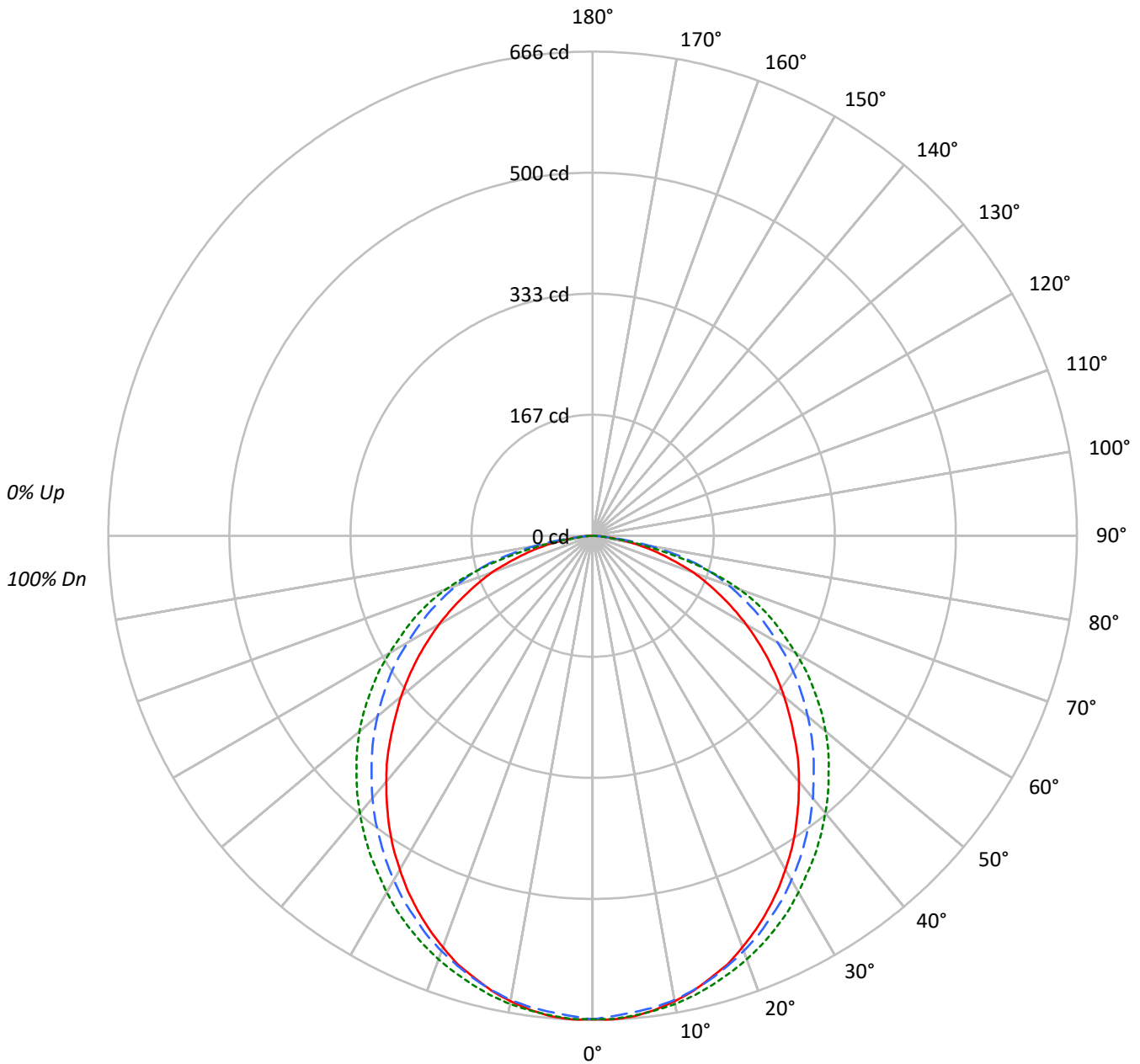
Lumens per Lamp: N/A  
Luminaire Lumens: 1863.0 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	1877	1877	1877
5°	1879	1864	1876
10°	1864	1858	1875
15°	1838	1844	1868
20°	1809	1826	1862
25°	1772	1804	1856
30°	1728	1782	1846
35°	1681	1757	1840
40°	1627	1736	1835
45°	1567	1715	1833
50°	1509	1695	1837
55°	1445	1682	1832
60°	1377	1658	1819
65°	1296	1653	1820
70°	1220	1639	1769
75°	1058	1602	1510
80°	855	1292	1006
85°	567	447	301



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.8	3.4
10°-20°	178.7	9.6
20°-30°	268.1	14.4
30°-40°	319.8	17.2
40°-50°	330.6	17.7
50°-60°	301.8	16.2
60°-70°	237.5	12.7
70°-80°	138.3	7.4
80°-90°	25.5	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°	509.6	27.4
0°-40°	829.3	44.5
0°-60°	1461.7	78.5
0°-90°	1863.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1863.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	665	665	665	665	665	
5°	663	661	658	663	662	63
15°	629	630	631	639	639	178
25°	569	572	579	593	596	262
35°	488	494	510	529	534	305
45°	392	406	430	454	459	303
55°	294	309	342	367	372	263
65°	194	214	248	267	272	193
75°	97	120	147	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°	665.1	665.1	665.1	665.1	665.1
2.5°	666.0	664.2	661.3	666.0	665.1
5°	663.3	661.3	657.7	663.3	662.2
7.5°	657.7	655.8	654.0	659.5	658.6
10°	650.2	649.3	648.4	654.9	654.0
12.5°	641.1	641.1	640.2	647.5	647.5
15°	629.1	630.0	630.9	639.1	639.1
17.5°	618.0	617.1	619.8	629.1	630.0
20°	602.2	604.1	607.8	618.9	619.8
22.5°	586.5	588.4	594.9	606.0	608.7
25°	569.0	571.8	579.2	593.0	595.8
27.5°	550.5	554.3	564.3	579.2	581.9
30°	530.2	535.7	546.8	563.4	566.3
32.5°	509.9	515.4	529.2	545.9	549.6
35°	487.7	494.2	509.9	529.2	533.9
37.5°	464.6	472.9	491.4	510.8	516.3
40°	441.5	450.8	471.1	491.4	497.9
42.5°	418.4	427.7	449.8	472.9	479.4
45°	392.5	405.5	429.5	453.5	459.1
47.5°	367.6	381.5	408.3	432.2	439.7
50°	343.6	357.4	386.1	411.1	418.4
52.5°	318.7	333.4	363.9	389.8	396.3
55°	293.7	309.4	341.8	366.7	372.3
57.5°	268.8	285.4	318.7	342.7	349.2
60°	243.9	261.5	293.7	317.7	322.3
62.5°	218.9	237.3	270.6	291.9	296.5
65°	194.0	214.3	247.5	267.0	272.5
67.5°	170.0	190.3	222.6	241.1	245.7
70°	147.8	166.3	198.6	212.4	214.3
72.5°	120.1	143.2	174.5	182.0	177.4
75°	97.0	120.1	146.9	144.1	138.5
77.5°	73.9	97.0	114.5	105.3	97.9
80°	52.6	75.7	79.5	65.5	61.9
82.5°	34.2	52.6	44.4	34.2	27.7
85°	17.5	24.9	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)