

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: P732411

Luminaire Tested: **14FCZ2-20-B2750-W2D-CA08-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732411
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275502)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-20-B2750-W2D-CA08-2700K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND RIBBED LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

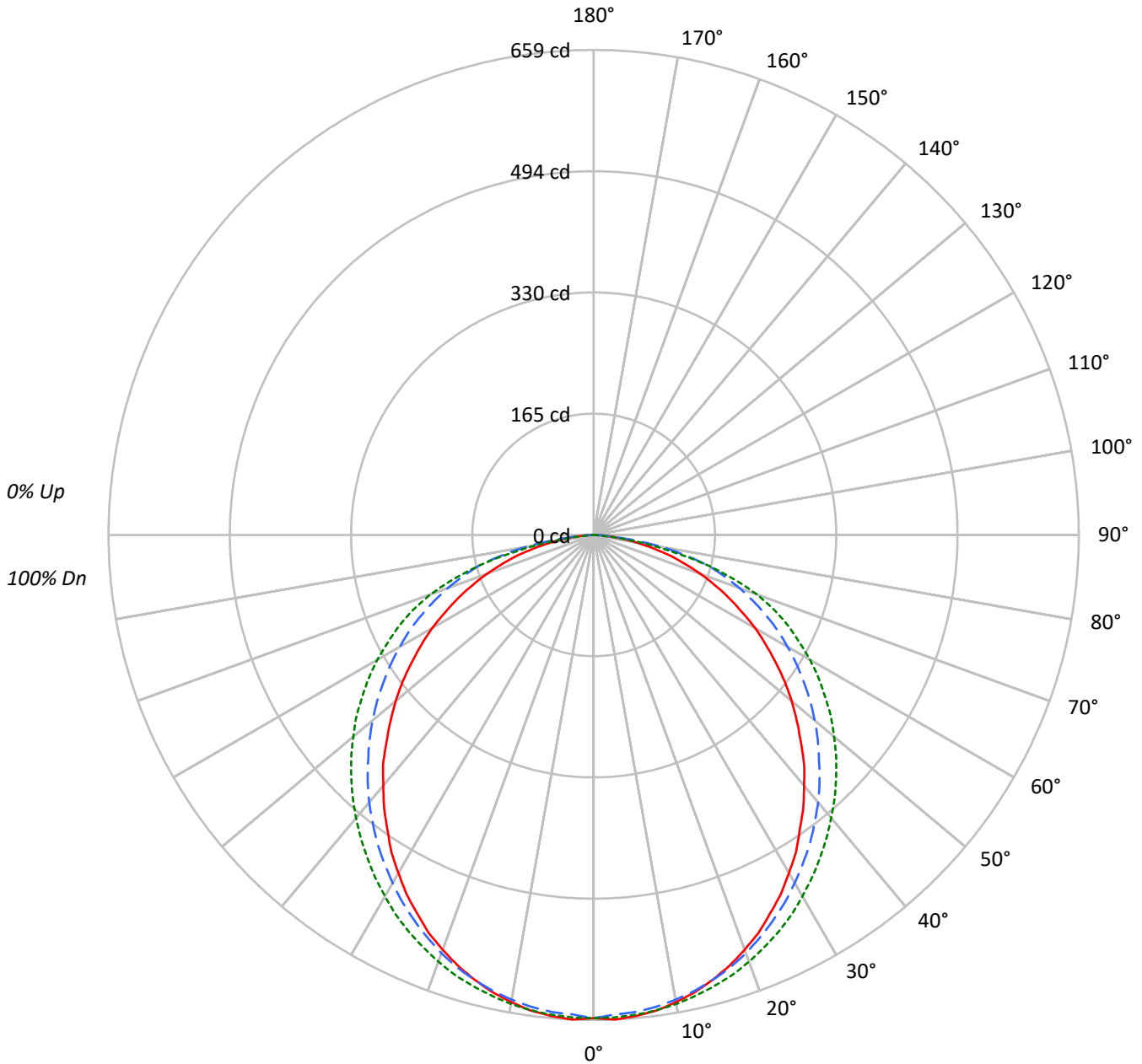
Lumens per Lamp: N/A
Luminaire Lumens: 1906.0 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 16
Input Voltage (V): NR
Input Current (Ain): 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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83																			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69																			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58																			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32																			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29																			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1853	1853	1853
5°	1859	1844	1855
10°	1848	1838	1855
15°	1828	1829	1854
20°	1801	1817	1854
25°	1767	1799	1852
30°	1729	1780	1848
35°	1683	1765	1847
40°	1638	1748	1850
45°	1588	1728	1859
50°	1541	1721	1872
55°	1483	1716	1889
60°	1430	1718	1915
65°	1357	1723	1944
70°	1273	1736	1943
75°	1154	1752	1757
80°	948	1512	1250
85°	700	716	288



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.1	3.3
10°-20°	177.5	9.3
20°-30°	267.4	14.0
30°-40°	320.9	16.8
40°-50°	334.4	17.5
50°-60°	309.6	16.2
60°-70°	250.1	13.1
70°-80°	152.5	8.0
80°-90°	31.5	1.7
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°	507.0	26.6
0°-40°	827.9	43.4
0°-60°	1471.9	77.2
0°-90°	1906.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1906.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	657	657	657	657	657	
5°	656	654	651	655	654	62
15°	626	626	626	634	634	176
25°	567	571	578	592	595	262
35°	488	496	512	531	536	306
45°	398	410	433	457	466	307
55°	301	317	349	376	384	270
65°	203	223	258	284	291	201
75°	106	129	161	163	161	111
85°	22	32	22	12	9	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	656.6	656.6	656.6	656.6	656.6
2.5°	659.2	657.1	652.4	657.1	656.2
5°	656.2	654.5	650.7	655.3	654.5
7.5°	652.0	650.2	646.8	652.4	651.5
10°	644.7	643.9	641.3	647.7	647.3
12.5°	636.3	635.8	634.5	641.8	641.3
15°	625.6	626.0	626.0	634.5	634.5
17.5°	613.7	614.5	616.3	625.6	626.9
20°	599.7	601.4	604.8	615.4	617.1
22.5°	585.3	586.5	591.6	604.3	606.1
25°	567.4	570.8	577.5	592.0	594.6
27.5°	550.4	553.3	562.7	577.5	581.9
30°	530.4	535.1	546.2	562.3	567.0
32.5°	511.3	516.3	529.1	547.8	552.0
35°	488.4	496.0	512.1	530.9	535.9
37.5°	467.6	474.7	493.1	513.4	519.4
40°	444.5	453.5	474.3	496.0	502.0
42.5°	423.3	431.7	454.3	476.4	484.5
45°	397.8	409.8	433.0	457.3	465.8
47.5°	374.4	386.4	413.1	439.0	446.7
50°	351.0	363.8	391.9	418.6	426.3
52.5°	326.8	340.5	370.6	397.3	406.4
55°	301.3	317.1	348.6	375.7	383.8
57.5°	277.1	293.2	326.8	354.4	362.5
60°	253.3	269.9	304.3	330.7	339.2
62.5°	227.0	246.5	282.2	308.1	314.5
65°	203.1	223.1	258.0	283.9	291.1
67.5°	178.1	199.7	234.6	258.3	265.3
70°	154.3	176.8	210.4	232.5	235.4
72.5°	128.8	151.8	185.7	199.7	199.7
75°	105.8	129.2	160.6	163.2	161.1
77.5°	80.7	106.7	127.1	121.9	116.9
80°	58.3	83.8	93.0	83.8	76.9
82.5°	39.1	60.7	56.0	44.6	39.5
85°	21.6	32.3	22.1	12.3	8.9
87.5°	8.1	7.3	2.1	2.1	2.1
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)