

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: P732414

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732414
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-CA08-4000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND RIBBED LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

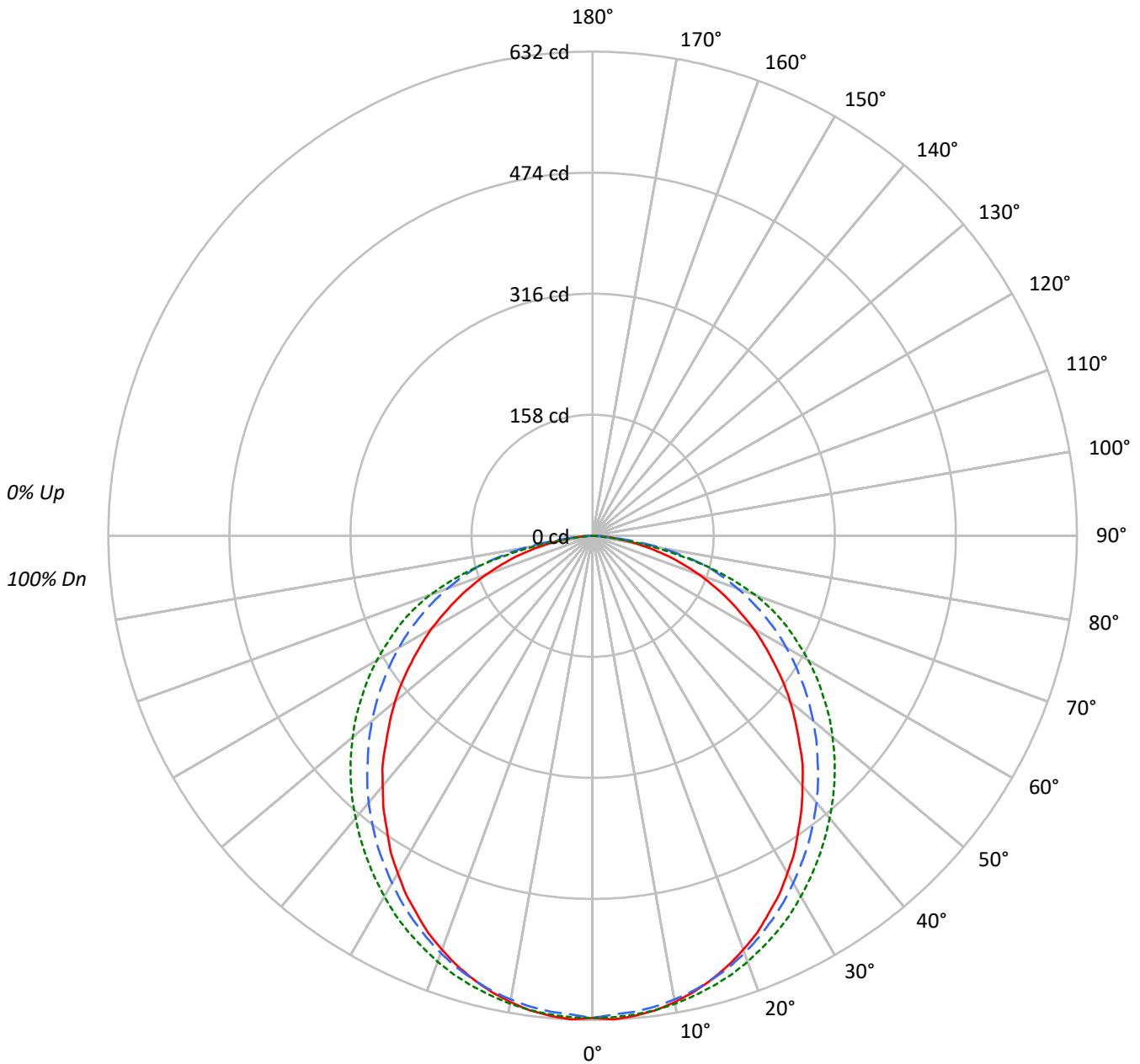
Lumens per Lamp: N/A
Luminaire Lumens: 1827.0 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 16
Input Voltage (V): NR
Input Current (A_{in}): 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°	1777	1777	1777
5°	1782	1767	1778
10°	1771	1762	1778
15°	1752	1753	1777
20°	1727	1741	1777
25°	1694	1724	1775
30°	1657	1706	1771
35°	1613	1692	1770
40°	1570	1675	1773
45°	1522	1657	1782
50°	1478	1649	1794
55°	1421	1644	1811
60°	1371	1647	1835
65°	1300	1652	1863
70°	1221	1665	1863
75°	1106	1680	1684
80°	909	1450	1198
85°	670	687	275



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.6	3.3
10°-20°	170.1	9.3
20°-30°	256.3	14.0
30°-40°	307.6	16.8
40°-50°	320.6	17.5
50°-60°	296.8	16.2
60°-70°	239.8	13.1
70°-80°	146.2	8.0
80°-90°	30.2	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°	486.0	26.6
0°-40°	793.5	43.4
0°-60°	1410.9	77.2
0°-90°	1827.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1827.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	629	629	629	629	629	
5°	629	627	624	628	627	60
15°	600	600	600	608	608	169
25°	544	547	554	568	570	251
35°	468	475	491	509	514	293
45°	381	393	415	438	446	295
55°	289	304	334	360	368	259
65°	195	214	247	272	279	193
75°	101	124	154	156	154	107
85°	21	31	21	12	8	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	629.4	629.4	629.4	629.4	629.4
2.5°	631.9	629.9	625.4	629.9	629.0
5°	629.0	627.4	623.7	628.2	627.4
7.5°	624.9	623.2	620.0	625.4	624.5
10°	618.0	617.2	614.7	620.9	620.4
12.5°	609.9	609.5	608.2	615.2	614.7
15°	599.7	600.0	600.0	608.2	608.2
17.5°	588.3	589.0	590.7	599.7	600.9
20°	574.8	576.5	579.7	589.9	591.5
22.5°	561.0	562.2	567.1	579.3	581.0
25°	543.8	547.1	553.6	567.5	570.0
27.5°	527.6	530.4	539.4	553.6	557.7
30°	508.4	512.9	523.5	539.0	543.5
32.5°	490.1	494.9	507.2	525.1	529.2
35°	468.1	475.4	490.9	508.8	513.7
37.5°	448.2	455.0	472.6	492.1	497.9
40°	426.1	434.7	454.7	475.4	481.1
42.5°	405.8	413.9	435.5	456.7	464.4
45°	381.3	392.8	415.1	438.3	446.5
47.5°	358.9	370.3	396.0	420.8	428.2
50°	336.5	348.7	375.6	401.3	408.6
52.5°	313.3	326.4	355.2	380.9	389.5
55°	288.8	303.9	334.1	360.1	367.9
57.5°	265.6	281.1	313.3	339.7	347.5
60°	242.8	258.7	291.7	317.0	325.1
62.5°	217.6	236.3	270.5	295.3	301.5
65°	194.7	213.9	247.3	272.1	279.0
67.5°	170.7	191.4	224.9	247.6	254.3
70°	147.9	169.5	201.7	222.9	225.7
72.5°	123.5	145.5	178.0	191.4	191.4
75°	101.4	123.8	154.0	156.5	154.4
77.5°	77.4	102.3	121.8	116.9	112.0
80°	55.9	80.3	89.2	80.3	73.7
82.5°	37.5	58.2	53.7	42.7	37.9
85°	20.7	31.0	21.2	11.8	8.5
87.5°	7.7	7.0	2.0	2.0	2.0
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)