

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: P732537

Luminaire Tested: **14FCZ2-25-B2750-W2D-CA08-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732537
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: 14FCZ2-25-B2750-W2D-CA08-3000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND RIBBED LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

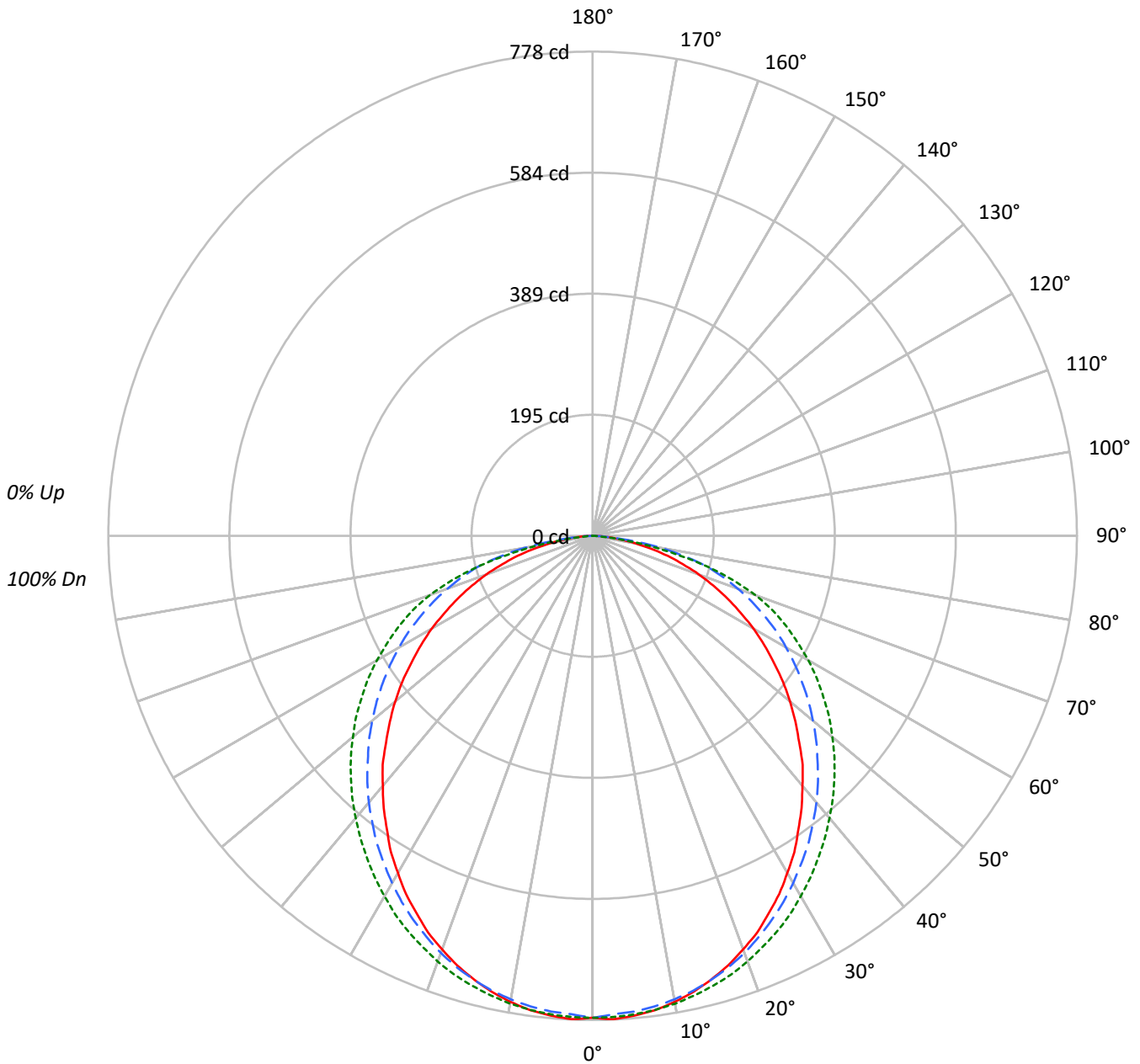
Lumens per Lamp: N/A
Luminaire Lumens: 2248.0 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 19
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					20					
RC	80					70					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°	2186	2186	2186
5°	2193	2174	2187
10°	2179	2168	2188
15°	2156	2157	2187
20°	2124	2143	2186
25°	2084	2122	2184
30°	2039	2100	2180
35°	1985	2081	2178
40°	1932	2062	2181
45°	1873	2039	2193
50°	1818	2030	2208
55°	1748	2023	2227
60°	1687	2026	2259
65°	1600	2032	2293
70°	1502	2048	2292
75°	1361	2067	2072
80°	1117	1783	1474
85°	826	845	340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.3	3.3
10°-20°	209.3	9.3
20°-30°	315.4	14.0
30°-40°	378.4	16.8
40°-50°	394.4	17.5
50°-60°	365.1	16.2
60°-70°	295.0	13.1
70°-80°	179.9	8.0
80°-90°	37.1	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°	598.0	26.6
0°-40°	976.4	43.4
0°-60°	1736.0	77.2
0°-90°	2248.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2248.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	774	774	774	774	774	
5°	774	772	767	773	772	73
15°	738	738	738	748	748	208
25°	669	673	681	698	701	308
35°	576	585	604	626	632	361
45°	469	483	511	539	549	363
55°	355	374	411	443	453	318
65°	240	263	304	335	343	237
75°	125	152	190	192	190	131
85°	26	38	26	14	10	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	774.5	774.5	774.5	774.5	774.5
2.5°	777.5	775.0	769.5	775.0	773.9
5°	773.9	772.0	767.4	772.9	772.0
7.5°	768.9	766.9	762.9	769.5	768.4
10°	760.4	759.4	756.4	764.0	763.4
12.5°	750.4	749.9	748.4	756.9	756.4
15°	737.9	738.3	738.3	748.4	748.4
17.5°	723.8	724.8	726.8	737.9	739.4
20°	707.2	709.3	713.3	725.9	727.8
22.5°	690.3	691.8	697.7	712.8	714.8
25°	669.2	673.2	681.2	698.3	701.3
27.5°	649.2	652.6	663.6	681.2	686.3
30°	625.6	631.1	644.2	663.2	668.7
32.5°	603.1	609.0	624.0	646.1	651.1
35°	576.0	585.0	604.0	626.1	632.0
37.5°	551.4	559.9	581.5	605.5	612.6
40°	524.3	534.9	559.5	585.0	592.0
42.5°	499.3	509.2	535.9	561.9	571.5
45°	469.2	483.3	510.7	539.3	549.4
47.5°	441.6	455.7	487.3	517.8	526.9
50°	414.0	429.0	462.2	493.8	502.7
52.5°	385.4	401.6	437.0	468.6	479.3
55°	355.3	374.0	411.1	443.1	452.6
57.5°	326.8	345.8	385.4	418.0	427.5
60°	298.8	318.4	358.9	390.0	400.1
62.5°	267.7	290.8	332.9	363.4	370.9
65°	239.6	263.2	304.3	334.8	343.3
67.5°	210.0	235.6	276.7	304.7	312.8
70°	182.0	208.5	248.1	274.2	277.7
72.5°	151.9	179.0	219.0	235.6	235.6
75°	124.8	152.4	189.5	192.5	190.0
77.5°	95.2	125.9	149.9	143.8	137.9
80°	68.7	98.8	109.7	98.8	90.7
82.5°	46.1	71.6	66.1	52.6	46.6
85°	25.5	38.1	26.1	14.5	10.5
87.5°	9.5	8.6	2.5	2.5	2.5
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)