

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: P732545

Luminaire Tested: **14FCZ2-25-B2750-W2D-CA125-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732545
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-CA125-5000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RIBBED LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

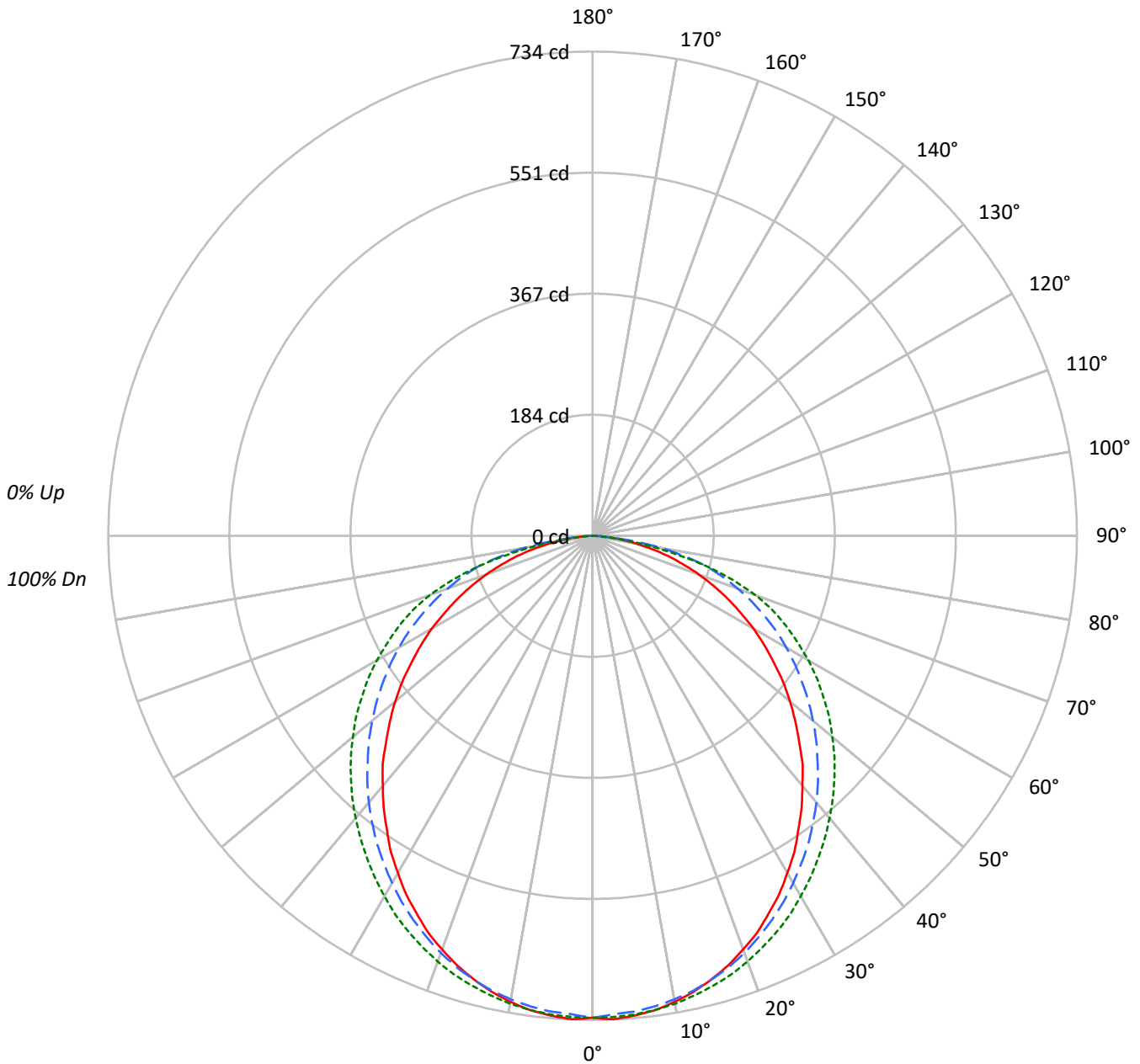
Lumens per Lamp: N/A
Luminaire Lumens: 2121.0 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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									
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°	2063	2063	2063
5°	2069	2052	2064
10°	2056	2045	2065
15°	2034	2036	2063
20°	2004	2022	2063
25°	1966	2002	2061
30°	1924	1981	2057
35°	1873	1964	2055
40°	1822	1945	2058
45°	1767	1924	2069
50°	1715	1915	2083
55°	1650	1909	2102
60°	1591	1912	2131
65°	1509	1918	2163
70°	1417	1932	2162
75°	1284	1950	1955
80°	1053	1682	1390
85°	781	797	321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.1	3.3
10°-20°	197.5	9.3
20°-30°	297.5	14.0
30°-40°	357.0	16.8
40°-50°	372.1	17.5
50°-60°	344.5	16.2
60°-70°	278.4	13.1
70°-80°	169.7	8.0
80°-90°	35.0	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°	564.2	26.6
0°-40°	921.2	43.4
0°-60°	1637.9	77.2
0°-90°	2121.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2121.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	731	731	731	731	731	
5°	730	728	724	729	728	69
15°	696	697	697	706	706	196
25°	631	635	643	659	662	291
35°	544	552	570	591	596	340
45°	443	456	482	509	518	342
55°	335	353	388	418	427	300
65°	226	248	287	316	324	224
75°	118	144	179	182	179	124
85°	24	36	25	14	10	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	730.7	730.7	730.7	730.7	730.7
2.5°	733.6	731.2	726.0	731.2	730.2
5°	730.2	728.4	724.1	729.3	728.4
7.5°	725.5	723.5	719.8	726.0	725.0
10°	717.4	716.5	713.6	720.8	720.3
12.5°	708.0	707.5	706.1	714.2	713.6
15°	696.2	696.6	696.6	706.1	706.1
17.5°	682.9	683.8	685.8	696.2	697.6
20°	667.3	669.2	673.0	684.9	686.7
22.5°	651.3	652.7	658.3	672.5	674.5
25°	631.4	635.1	642.7	658.8	661.7
27.5°	612.5	615.7	626.1	642.7	647.5
30°	590.2	595.4	607.8	625.8	631.0
32.5°	569.0	574.6	588.8	609.6	614.3
35°	543.5	551.9	569.9	590.7	596.3
37.5°	520.3	528.2	548.7	571.3	578.0
40°	494.6	504.7	527.8	551.9	558.6
42.5°	471.1	480.5	505.6	530.2	539.2
45°	442.7	456.0	481.9	508.8	518.3
47.5°	416.7	429.9	459.7	488.5	497.1
50°	390.6	404.8	436.1	465.9	474.3
52.5°	363.7	378.9	412.4	442.2	452.2
55°	335.3	352.9	387.9	418.1	427.1
57.5°	308.3	326.3	363.7	394.4	403.4
60°	281.9	300.4	338.7	368.0	377.5
62.5°	252.6	274.3	314.1	342.8	350.0
65°	226.0	248.3	287.1	315.9	323.9
67.5°	198.2	222.3	261.1	287.5	295.2
70°	171.7	196.7	234.1	258.7	262.0
72.5°	143.4	168.9	206.6	222.3	222.3
75°	117.7	143.7	178.8	181.6	179.3
77.5°	89.8	118.7	141.4	135.7	130.1
80°	64.8	93.2	103.5	93.2	85.5
82.5°	43.5	67.6	62.4	49.6	44.0
85°	24.1	35.9	24.6	13.7	9.9
87.5°	9.0	8.1	2.3	2.3	2.3
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)