

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: P732541

Luminaire Tested: **14FCZ2-25-B2750-W2D-CA125-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732541
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-CA125-2700K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND RIBBED LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

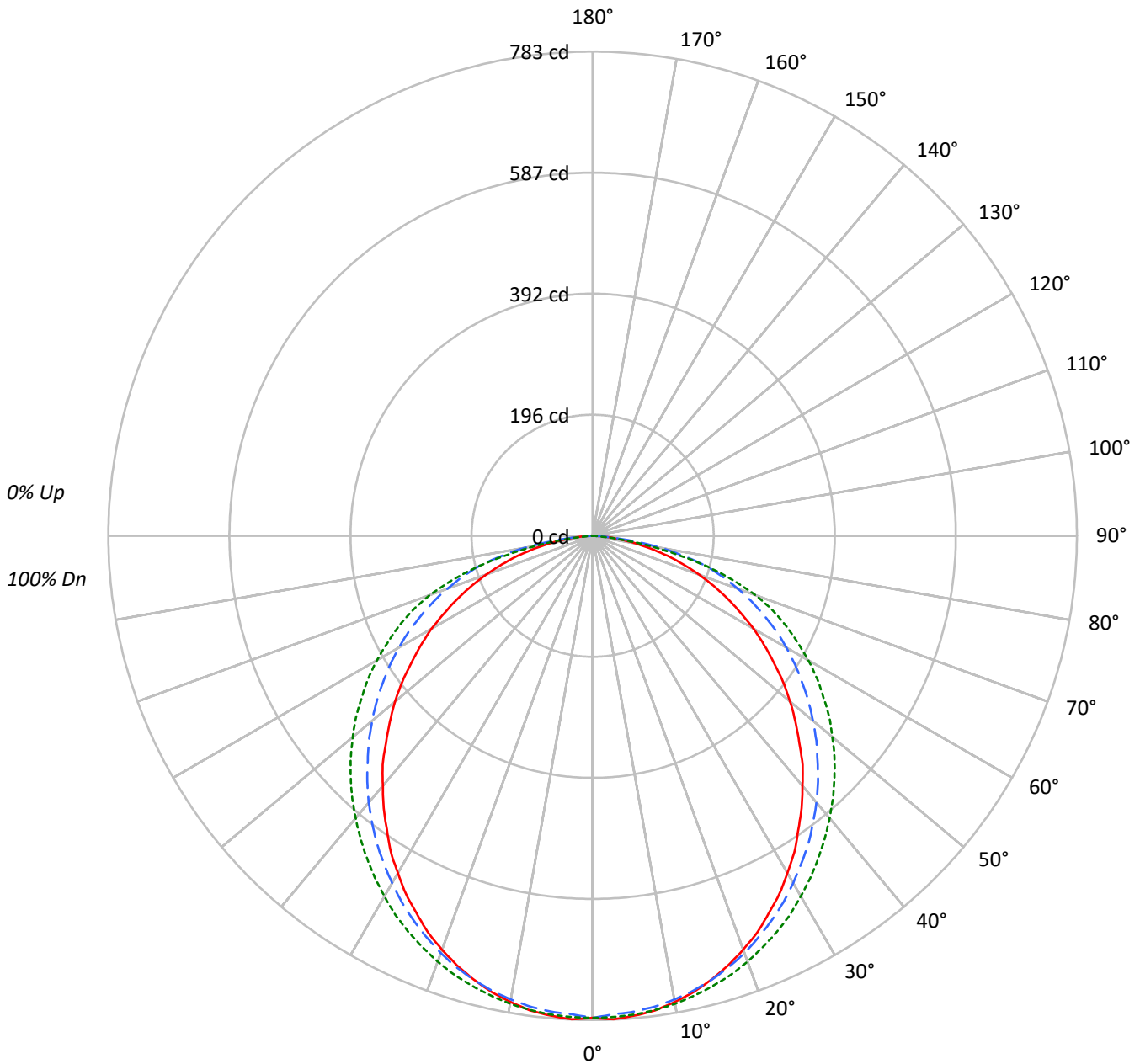
Lumens per Lamp: N/A
Luminaire Lumens: 2263.0 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	2201	2201	2201
5°	2208	2189	2202
10°	2194	2182	2203
15°	2171	2172	2202
20°	2139	2157	2201
25°	2098	2136	2199
30°	2052	2114	2194
35°	1998	2095	2193
40°	1945	2075	2196
45°	1885	2052	2208
50°	1830	2043	2222
55°	1760	2036	2243
60°	1698	2040	2273
65°	1611	2046	2308
70°	1512	2062	2307
75°	1370	2080	2086
80°	1125	1795	1484
85°	832	852	343



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.8	3.3
10°-20°	210.7	9.3
20°-30°	317.5	14.0
30°-40°	381.0	16.8
40°-50°	397.1	17.5
50°-60°	367.6	16.2
60°-70°	297.0	13.1
70°-80°	181.1	8.0
80°-90°	37.4	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°	602.0	26.6
0°-40°	982.9	43.4
0°-60°	1747.6	77.2
0°-90°	2263.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2263.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	780	780	780	780	780	
5°	779	777	772	778	777	74
15°	743	743	743	753	753	209
25°	674	678	686	703	706	310
35°	580	589	608	630	636	363
45°	472	486	514	543	553	365
55°	358	376	414	446	456	321
65°	241	265	306	337	346	239
75°	126	153	191	194	191	132
85°	26	38	26	15	11	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	779.6	779.6	779.6	779.6	779.6
2.5°	782.7	780.2	774.6	780.2	779.1
5°	779.1	777.1	772.5	778.1	777.1
7.5°	774.1	772.0	768.0	774.6	773.5
10°	765.5	764.5	761.4	769.1	768.5
12.5°	755.5	754.9	753.4	762.0	761.4
15°	742.8	743.2	743.2	753.4	753.4
17.5°	728.6	729.6	731.7	742.8	744.3
20°	712.0	714.1	718.1	730.7	732.7
22.5°	694.9	696.4	702.4	717.5	719.6
25°	673.6	677.7	685.7	702.9	706.0
27.5°	653.5	657.0	668.1	685.7	690.9
30°	629.7	635.3	648.5	667.7	673.2
32.5°	607.1	613.1	628.2	650.4	655.4
35°	579.9	588.9	608.1	630.3	636.3
37.5°	555.1	563.6	585.4	609.6	616.7
40°	527.8	538.5	563.2	588.9	596.0
42.5°	502.6	512.6	539.4	565.7	575.3
45°	472.3	486.5	514.1	542.9	553.0
47.5°	444.5	458.7	490.5	521.2	530.4
50°	416.8	431.9	465.2	497.1	506.1
52.5°	388.0	404.3	440.0	471.8	482.5
55°	357.7	376.5	413.8	446.1	455.7
57.5°	329.0	348.1	388.0	420.8	430.4
60°	300.8	320.5	361.3	392.6	402.7
62.5°	269.5	292.7	335.1	365.8	373.4
65°	241.2	264.9	306.3	337.0	345.6
67.5°	211.4	237.1	278.5	306.7	314.9
70°	183.2	209.9	249.8	276.0	279.5
72.5°	153.0	180.2	220.5	237.1	237.1
75°	125.6	153.4	190.7	193.8	191.3
77.5°	95.9	126.7	150.9	144.8	138.8
80°	69.2	99.5	110.4	99.5	91.3
82.5°	46.4	72.1	66.5	52.9	47.0
85°	25.7	38.3	26.3	14.6	10.6
87.5°	9.6	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)