

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: P732538

Luminaire Tested: **14FCZ2-25-B2750-W2D-CA08-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732538
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-CA08-3500K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND RIBBED LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

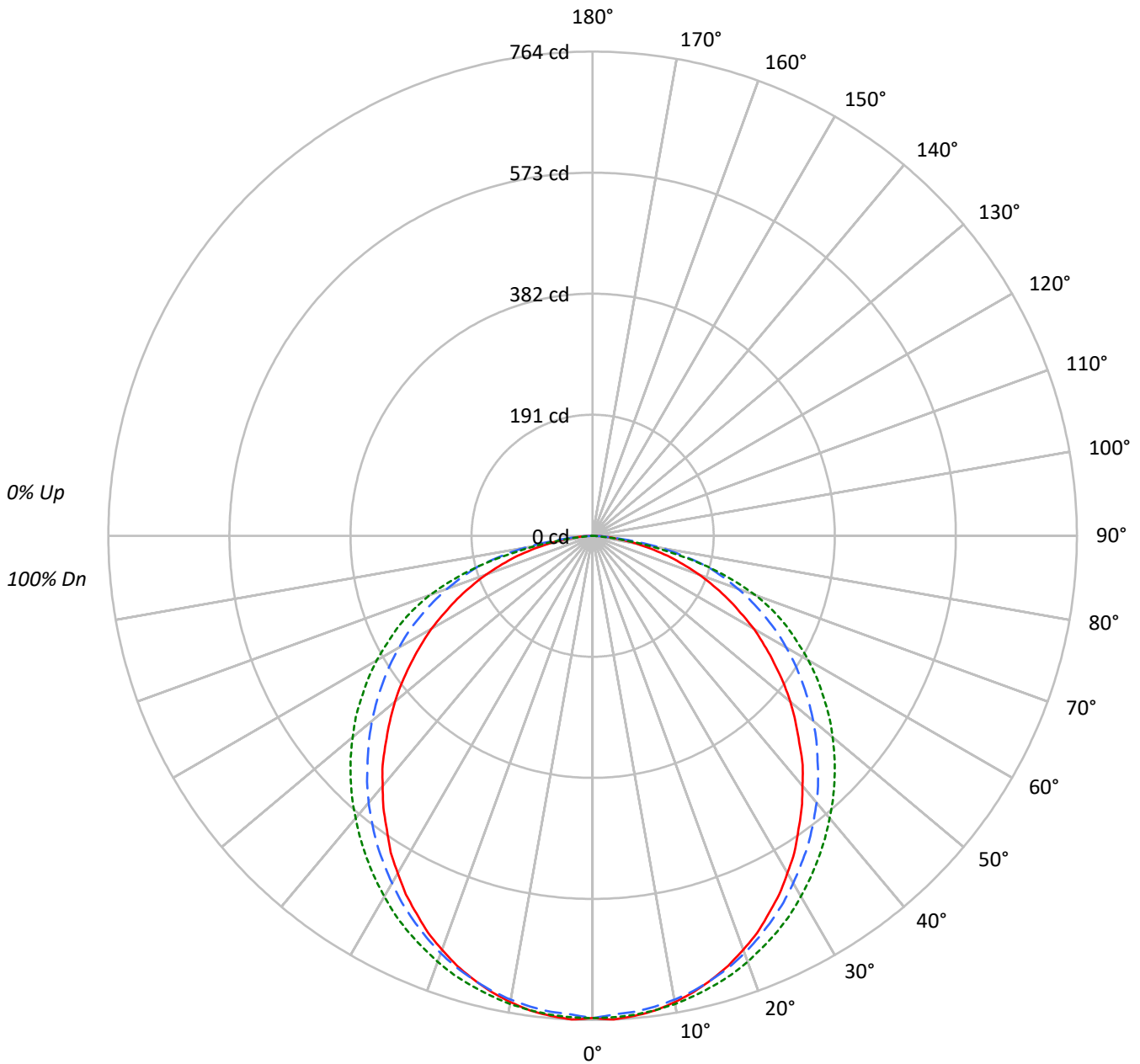
Lumens per Lamp: N/A
Luminaire Lumens: 2209.0 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	2148	2148	2148
5°	2155	2137	2149
10°	2142	2130	2150
15°	2119	2120	2149
20°	2088	2105	2148
25°	2048	2085	2146
30°	2004	2063	2142
35°	1950	2045	2140
40°	1898	2026	2143
45°	1841	2004	2155
50°	1786	1994	2169
55°	1718	1988	2189
60°	1657	1991	2219
65°	1572	1997	2254
70°	1476	2012	2251
75°	1337	2031	2036
80°	1097	1752	1448
85°	813	829	334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.0	3.3
10°-20°	205.7	9.3
20°-30°	309.9	14.0
30°-40°	371.9	16.8
40°-50°	387.6	17.5
50°-60°	358.8	16.2
60°-70°	289.9	13.1
70°-80°	176.8	8.0
80°-90°	36.5	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°	587.6	26.6
0°-40°	959.5	43.4
0°-60°	1705.8	77.2
0°-90°	2209.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2209.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	761	761	761	761	761	
5°	760	759	754	760	759	72
15°	725	726	726	735	735	204
25°	658	662	669	686	689	303
35°	566	575	594	615	621	355
45°	461	475	502	530	540	356
55°	349	368	404	435	445	313
65°	235	259	299	329	337	233
75°	123	150	186	189	187	129
85°	25	37	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°	761.0	761.0	761.0	761.0	761.0
2.5°	764.0	761.6	756.1	761.6	760.5
5°	760.5	758.6	754.1	759.5	758.6
7.5°	755.6	753.6	749.6	756.1	755.1
10°	747.2	746.2	743.3	750.7	750.2
12.5°	737.4	736.9	735.4	743.8	743.3
15°	725.1	725.5	725.5	735.4	735.4
17.5°	711.3	712.2	714.2	725.1	726.6
20°	695.0	697.0	700.9	713.3	715.2
22.5°	678.3	679.8	685.6	700.4	702.4
25°	657.6	661.5	669.3	686.2	689.1
27.5°	637.9	641.3	652.1	669.3	674.4
30°	614.7	620.1	633.0	651.7	657.1
32.5°	592.6	598.4	613.2	634.9	639.8
35°	566.0	574.8	593.5	615.2	621.1
37.5°	541.9	550.2	571.4	595.0	602.0
40°	515.2	525.6	549.7	574.8	581.7
42.5°	490.6	500.4	526.6	552.2	561.5
45°	461.1	474.9	501.9	529.9	539.8
47.5°	433.9	447.8	478.8	508.8	517.7
50°	406.8	421.6	454.1	485.2	494.0
52.5°	378.7	394.6	429.5	460.5	471.0
55°	349.2	367.5	404.0	435.4	444.8
57.5°	321.1	339.8	378.7	410.7	420.1
60°	293.6	312.8	352.7	383.2	393.1
62.5°	263.1	285.7	327.1	357.0	364.5
65°	235.4	258.6	299.0	329.0	337.4
67.5°	206.4	231.5	271.9	299.4	307.4
70°	178.9	204.9	243.8	269.4	272.8
72.5°	149.3	175.9	215.2	231.5	231.5
75°	122.6	149.7	186.2	189.2	186.7
77.5°	93.6	123.7	147.3	141.3	135.5
80°	67.5	97.1	107.8	97.1	89.1
82.5°	45.3	70.4	65.0	51.7	45.8
85°	25.1	37.4	25.6	14.2	10.3
87.5°	9.4	8.4	2.4	2.4	2.4
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)