

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: P732614

Luminaire Tested: **14FCZ2-25-S-B2750-W2D-CA08-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732614
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275670)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-25-S-B2750-W2D-CA08-4000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND SMOOTH LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

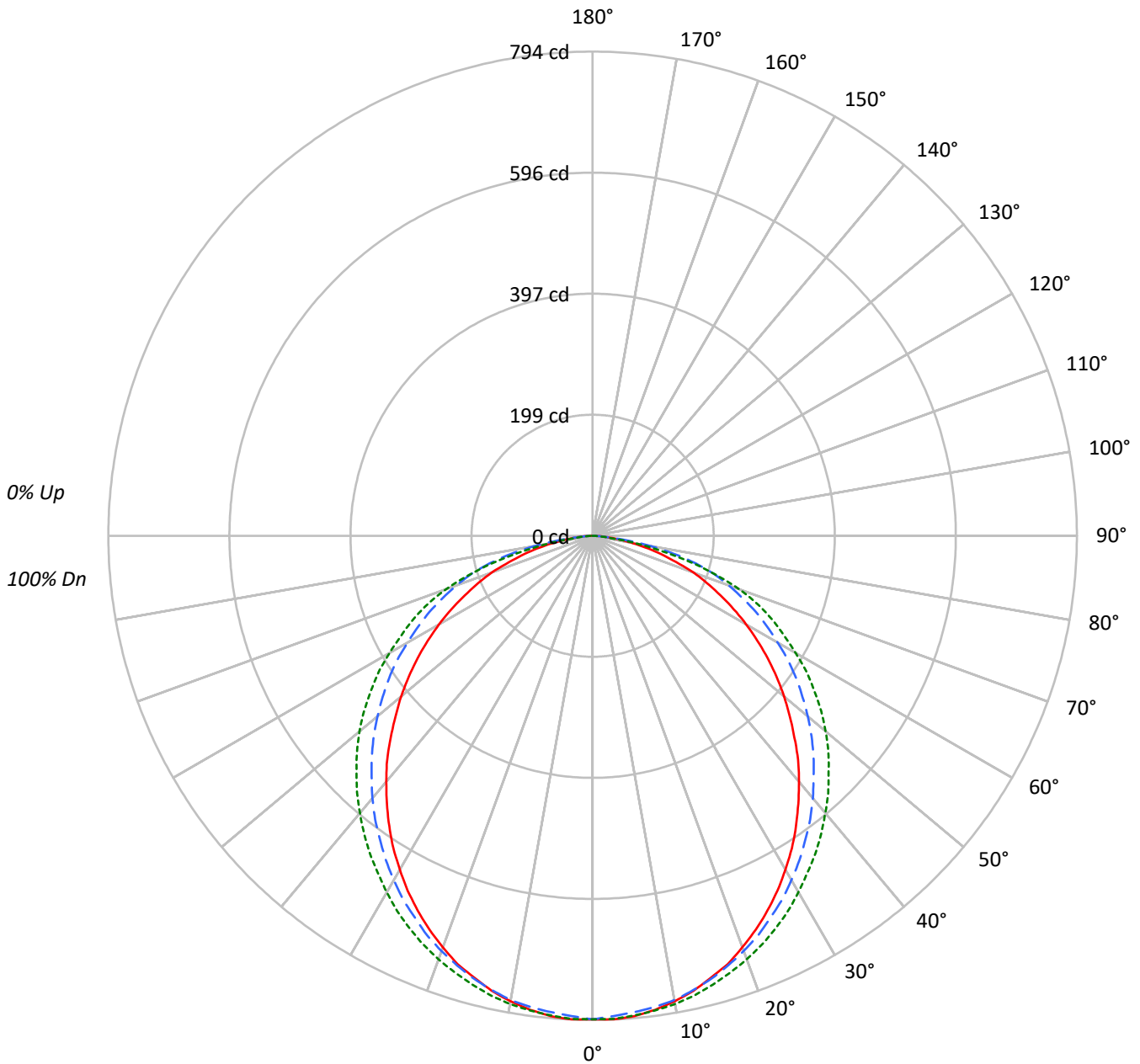
Lumens per Lamp: N/A
Luminaire Lumens: 2221.0 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84								
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70								
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58								
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50								
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43								
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38								
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33								
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30								
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27								
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2238	2238	2238
5°	2240	2222	2237
10°	2222	2216	2235
15°	2192	2198	2227
20°	2157	2177	2220
25°	2113	2151	2212
30°	2060	2125	2200
35°	2003	2095	2193
40°	1940	2069	2187
45°	1868	2044	2185
50°	1799	2021	2190
55°	1723	2005	2184
60°	1642	1977	2170
65°	1545	1971	2170
70°	1454	1954	2108
75°	1261	1910	1802
80°	1019	1539	1200
85°	677	534	359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.9	3.4
10°-20°	213.0	9.6
20°-30°	319.6	14.4
30°-40°	381.2	17.2
40°-50°	394.1	17.7
50°-60°	359.8	16.2
60°-70°	283.2	12.7
70°-80°	164.8	7.4
80°-90°	30.4	1.4
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°	607.5	27.4
0°-40°	988.7	44.5
0°-60°	1742.7	78.5
0°-90°	2221.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2221.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	793	793	793	793	793	
5°	791	788	784	791	790	75
15°	750	751	752	762	762	212
25°	678	682	690	707	710	312
35°	581	589	608	631	636	363
45°	468	484	512	541	547	361
55°	350	369	408	437	444	313
65°	231	255	295	318	325	230
75°	116	143	175	172	165	123
85°	21	30	16	13	11	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	792.9	792.9	792.9	792.9	792.9
2.5°	793.9	791.8	788.4	793.9	792.9
5°	790.7	788.4	784.1	790.7	789.5
7.5°	784.1	781.8	779.6	786.3	785.2
10°	775.2	774.1	773.0	780.7	779.6
12.5°	764.3	764.3	763.2	772.0	772.0
15°	750.0	751.0	752.1	762.0	762.0
17.5°	736.7	735.7	738.9	750.0	751.0
20°	718.0	720.1	724.6	737.8	738.9
22.5°	699.2	701.5	709.2	722.4	725.7
25°	678.3	681.7	690.5	706.9	710.3
27.5°	656.3	660.8	672.8	690.5	693.7
30°	632.0	638.6	651.9	671.7	675.1
32.5°	607.9	614.5	630.9	650.8	655.2
35°	581.4	589.1	607.9	630.9	636.5
37.5°	553.9	563.8	585.9	609.0	615.6
40°	526.4	537.4	561.6	585.9	593.6
42.5°	498.8	509.9	536.2	563.8	571.6
45°	467.9	483.5	512.1	540.7	547.3
47.5°	438.3	454.9	486.7	515.3	524.2
50°	409.7	426.1	460.3	490.1	498.8
52.5°	380.0	397.5	433.8	464.7	472.4
55°	350.2	368.9	407.5	437.2	443.8
57.5°	320.5	340.3	380.0	408.6	416.3
60°	290.8	311.7	350.2	378.8	384.3
62.5°	261.0	283.0	322.6	348.0	353.5
65°	231.3	255.4	295.1	318.3	324.9
67.5°	202.7	226.8	265.4	287.4	292.9
70°	176.2	198.2	236.8	253.3	255.4
72.5°	143.2	170.7	208.1	217.0	211.4
75°	115.6	143.2	175.1	171.8	165.2
77.5°	88.1	115.6	136.6	125.5	116.7
80°	62.7	90.3	94.7	78.1	73.8
82.5°	40.7	62.7	52.9	40.7	33.1
85°	20.9	29.7	16.5	13.2	11.1
87.5°	6.6	4.5	2.2	2.2	1.1
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)