

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: P732619

Luminaire Tested: **14FCZ2-25-S-B2750-W2D-CA125-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732619
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-CA125-4000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND SMOOTH LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

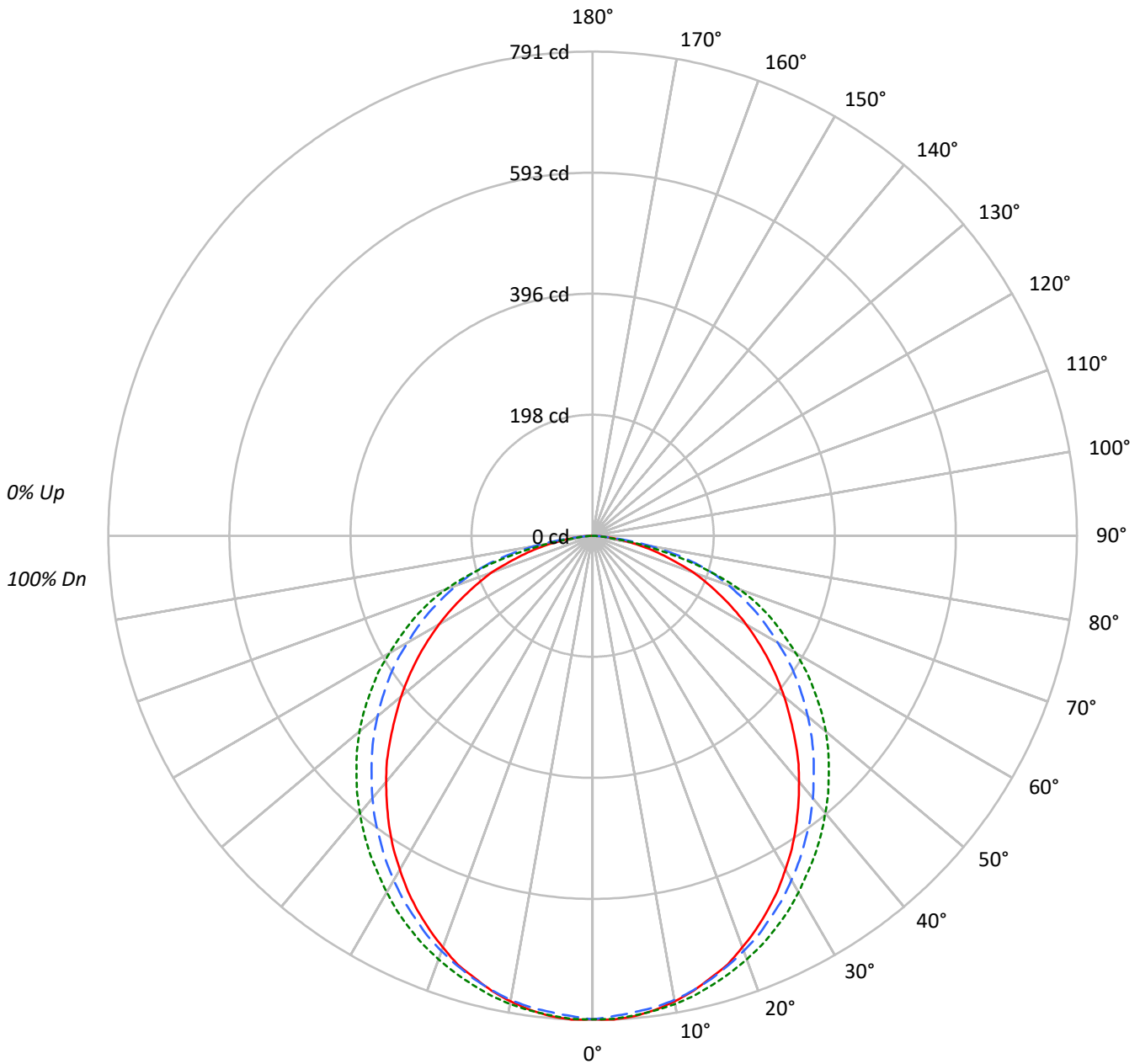
Lumens per Lamp: N/A
Luminaire Lumens: 2213.0 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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									
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	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°	2230	2230	2230
5°	2232	2214	2229
10°	2214	2208	2226
15°	2184	2190	2219
20°	2149	2169	2211
25°	2105	2143	2204
30°	2053	2117	2192
35°	1996	2087	2185
40°	1933	2062	2179
45°	1861	2037	2177
50°	1793	2014	2183
55°	1717	1998	2176
60°	1635	1970	2162
65°	1539	1964	2162
70°	1449	1948	2100
75°	1256	1903	1795
80°	1016	1534	1195
85°	674	531	356



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.6	3.4
10°-20°	212.3	9.6
20°-30°	318.4	14.4
30°-40°	379.8	17.2
40°-50°	392.7	17.7
50°-60°	358.5	16.2
60°-70°	282.1	12.7
70°-80°	164.2	7.4
80°-90°	30.3	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°	605.3	27.4
0°-40°	985.2	44.5
0°-60°	1736.4	78.5
0°-90°	2213.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2213.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	790	790	790	790	790	
5°	788	786	781	788	787	75
15°	747	748	749	759	759	211
25°	676	679	688	704	708	311
35°	579	587	606	629	634	362
45°	466	482	510	539	545	360
55°	349	368	406	436	442	312
65°	230	254	294	317	324	229
75°	115	143	174	171	165	122
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°	790.0	790.0	790.0	790.0	790.0
2.5°	791.1	788.9	785.6	791.1	790.0
5°	787.9	785.6	781.3	787.9	786.6
7.5°	781.3	779.0	776.8	783.4	782.3
10°	772.4	771.3	770.2	777.9	776.8
12.5°	761.5	761.5	760.4	769.2	769.2
15°	747.3	748.3	749.4	759.2	759.2
17.5°	734.1	733.0	736.2	747.3	748.3
20°	715.4	717.5	722.0	735.2	736.2
22.5°	696.7	699.0	706.7	719.8	723.1
25°	675.9	679.2	688.0	704.4	707.7
27.5°	654.0	658.4	670.4	688.0	691.2
30°	629.8	636.3	649.5	669.3	672.6
32.5°	605.7	612.3	628.7	648.4	652.9
35°	579.3	587.0	605.7	628.7	634.2
37.5°	551.9	561.7	583.8	606.8	613.3
40°	524.5	535.5	559.6	583.8	591.4
42.5°	497.1	508.1	534.3	561.7	569.5
45°	466.3	481.7	510.2	538.7	545.3
47.5°	436.7	453.2	485.0	513.5	522.3
50°	408.2	424.6	458.6	488.3	497.1
52.5°	378.6	396.1	432.2	463.0	470.7
55°	348.9	367.6	406.0	435.6	442.2
57.5°	319.3	339.1	378.6	407.1	414.8
60°	289.7	310.6	348.9	377.4	382.9
62.5°	260.0	281.9	321.5	346.7	352.3
65°	230.4	254.5	294.0	317.2	323.7
67.5°	201.9	226.0	264.5	286.4	291.9
70°	175.6	197.5	236.0	252.4	254.5
72.5°	142.6	170.1	207.3	216.2	210.7
75°	115.2	142.6	174.5	171.2	164.6
77.5°	87.8	115.2	136.1	125.0	116.3
80°	62.5	89.9	94.4	77.8	73.5
82.5°	40.6	62.5	52.7	40.6	32.9
85°	20.8	29.6	16.4	13.2	11.0
87.5°	6.6	4.4	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)