

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: P732617

Luminaire Tested: **14FCZ2-25-S-B2750-W2D-CA125-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732617
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-CA125-3000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND SMOOTH LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

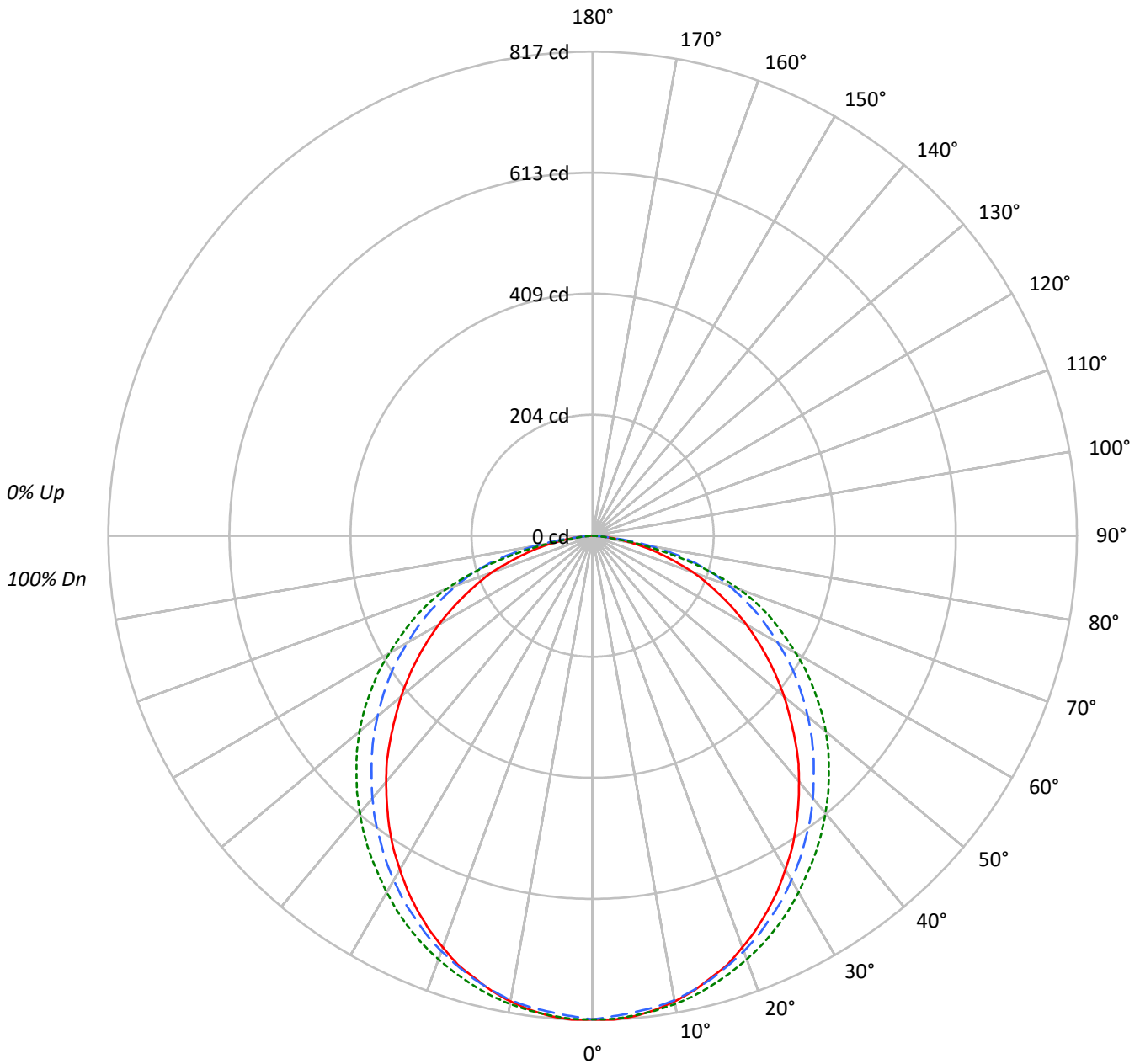
Lumens per Lamp: N/A
Luminaire Lumens: 2286.0 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P732617

CATALOG NUMBER: 14FCZ2-25-S-B2750-W2D-CA125-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P732617

CATALOG NUMBER: 14FCZ2-25-S-B2750-W2D-CA125-3000K

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°	2304	2304	2304
5°	2306	2287	2302
10°	2287	2281	2300
15°	2256	2262	2292
20°	2220	2240	2284
25°	2175	2213	2277
30°	2120	2187	2265
35°	2062	2156	2257
40°	1996	2130	2251
45°	1922	2104	2249
50°	1851	2080	2254
55°	1774	2064	2248
60°	1690	2035	2233
65°	1590	2028	2233
70°	1497	2011	2170
75°	1298	1966	1854
80°	1050	1585	1235
85°	696	547	369



TEST NUMBER: P732617

CATALOG NUMBER: 14FCZ2-25-S-B2750-W2D-CA125-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.1	3.4
10°-20°	219.3	9.6
20°-30°	328.9	14.4
30°-40°	392.4	17.2
40°-50°	405.6	17.7
50°-60°	370.4	16.2
60°-70°	291.4	12.7
70°-80°	169.7	7.4
80°-90°	31.2	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°	625.3	27.4
0°-40°	1017.6	44.5
0°-60°	1793.6	78.5
0°-90°	2286.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2286.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	816	816	816	816	816	
5°	814	812	807	814	813	77
15°	772	773	774	784	784	218
25°	698	702	711	728	731	321
35°	598	606	626	649	655	374
45°	482	498	527	556	563	372
55°	360	380	419	450	457	322
65°	238	263	304	328	334	236
75°	119	147	180	177	170	127
85°	22	31	17	14	11	28
90°	0	0	0	0	0	



TEST NUMBER: P732617

CATALOG NUMBER: 14FCZ2-25-S-B2750-W2D-CA125-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	<i>816.1</i>	816.1	816.1	816.1	816.1
2.5°	<i>817.2</i>	<i>815.0</i>	<i>811.5</i>	<i>817.2</i>	<i>816.1</i>
5°	<i>813.8</i>	811.5	807.0	813.8	812.6
7.5°	<i>807.0</i>	804.7	802.5	809.3	808.2
10°	<i>797.9</i>	796.8	795.7	803.6	802.5
12.5°	<i>786.6</i>	786.6	785.5	794.5	794.5
15°	<i>771.9</i>	773.0	774.1	784.3	784.3
17.5°	<i>758.3</i>	757.2	760.5	771.9	773.0
20°	<i>739.0</i>	741.2	745.8	759.4	760.5
22.5°	<i>719.7</i>	722.0	730.0	743.6	746.9
25°	<i>698.2</i>	701.6	710.7	727.6	731.1
27.5°	<i>675.5</i>	680.1	692.5	710.7	714.0
30°	<i>650.5</i>	657.3	670.9	691.4	694.8
32.5°	<i>625.7</i>	632.5	649.4	669.8	674.4
35°	<i>598.4</i>	606.4	625.7	649.4	655.1
37.5°	<i>570.1</i>	580.2	603.0	626.8	633.6
40°	<i>541.8</i>	553.2	578.0	603.0	610.9
42.5°	<i>513.4</i>	524.8	551.9	580.2	588.3
45°	<i>481.6</i>	497.6	527.1	556.5	563.3
47.5°	<i>451.1</i>	468.2	500.9	530.4	539.6
50°	<i>421.6</i>	438.6	473.7	504.4	513.4
52.5°	<i>391.1</i>	409.1	446.5	478.3	486.2
55°	<i>360.4</i>	379.7	419.4	450.0	456.8
57.5°	<i>329.8</i>	350.3	391.1	420.5	428.5
60°	<i>299.3</i>	320.8	360.4	389.8	395.5
62.5°	<i>268.6</i>	291.2	332.1	358.2	363.9
65°	<i>238.0</i>	262.9	303.7	327.6	334.4
67.5°	<i>208.6</i>	233.5	273.2	295.8	301.5
70°	<i>181.4</i>	204.0	243.7	260.7	262.9
72.5°	<i>147.4</i>	175.7	214.2	223.3	217.6
75°	<i>119.0</i>	147.4	180.3	176.8	170.0
77.5°	<i>90.7</i>	119.0	140.5	129.2	120.1
80°	<i>64.6</i>	92.9	97.5	80.4	76.0
82.5°	<i>41.9</i>	64.6	54.4	41.9	34.0
85°	<i>21.5</i>	30.6	16.9	13.6	11.4
87.5°	<i>6.8</i>	4.6	2.2	2.2	1.1
90°	<i>0.0</i>	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)