

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: P732669

Luminaire Tested: **14FCZ2-29-B2750-W2D-CA125-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732669
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: 14FCZ2-29-B2750-W2D-CA125-4000K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND RIBBED LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

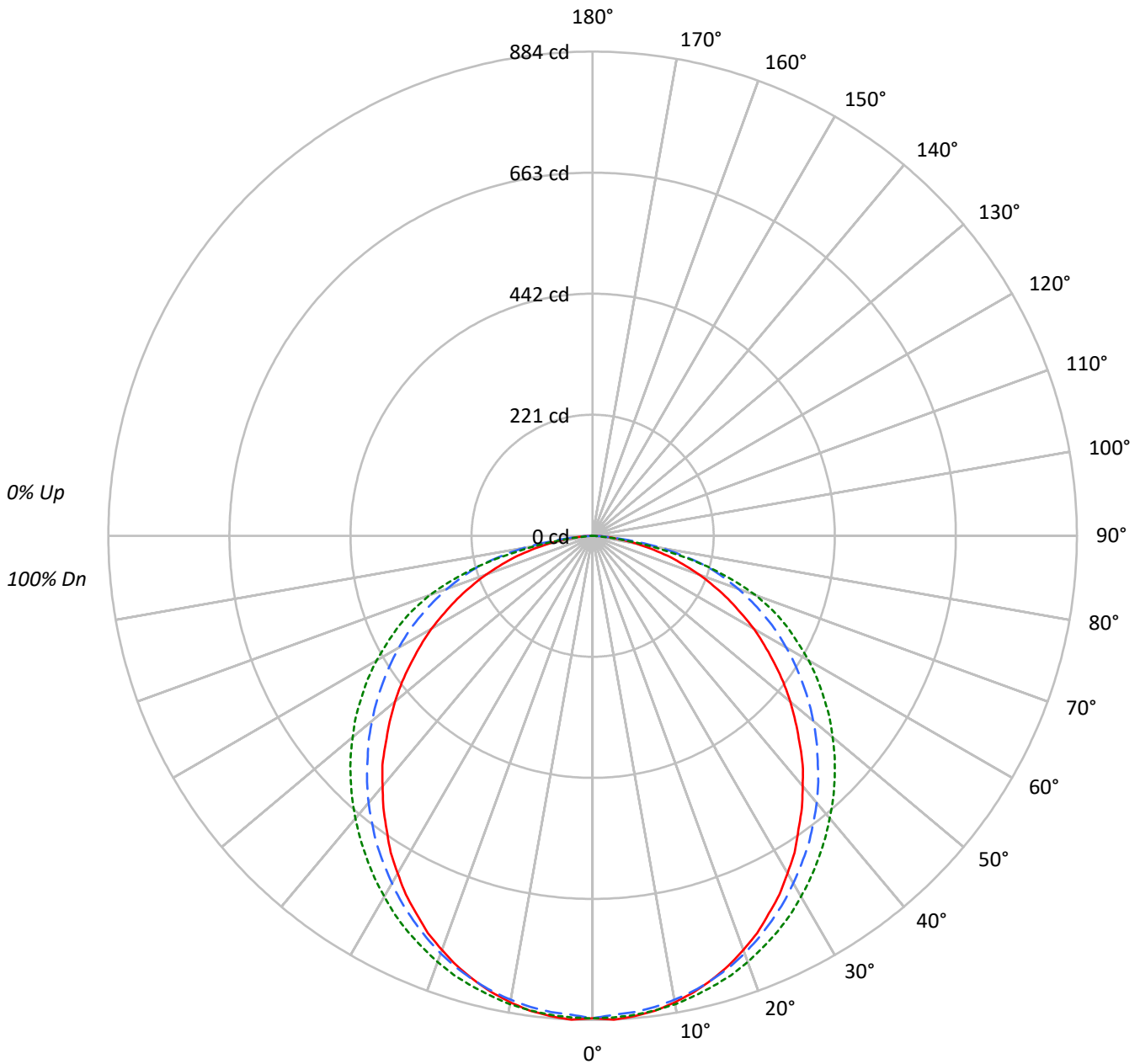
Lumens per Lamp: N/A
Luminaire Lumens: 2557.0 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
Input Voltage (V): NR
Input Current (Ain): 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: P732669

CATALOG NUMBER: 14FCZ2-29-B2750-W2D-CA125-4000K

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°	2486	2486	2486
5°	2494	2473	2488
10°	2479	2466	2489
15°	2453	2454	2487
20°	2417	2437	2487
25°	2370	2413	2484
30°	2319	2388	2479
35°	2258	2368	2477
40°	2197	2345	2481
45°	2130	2319	2495
50°	2068	2309	2511
55°	1989	2301	2534
60°	1918	2305	2569
65°	1820	2312	2608
70°	1708	2329	2606
75°	1548	2350	2357
80°	1271	2029	1676
85°	939	962	385



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.4	3.3
10°-20°	238.1	9.3
20°-30°	358.7	14.0
30°-40°	430.5	16.8
40°-50°	448.6	17.5
50°-60°	415.3	16.2
60°-70°	335.6	13.1
70°-80°	204.6	8.0
80°-90°	42.2	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°	680.2	26.6
0°-40°	1110.6	43.4
0°-60°	1974.6	77.2
0°-90°	2557.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2557.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	881	881	881	881	881	
5°	880	878	873	879	878	84
15°	839	840	840	851	851	237
25°	761	766	775	794	798	351
35°	655	665	687	712	719	410
45°	534	550	581	613	625	412
55°	404	425	468	504	515	362
65°	272	299	346	381	390	269
75°	142	173	216	219	216	149
85°	29	43	30	16	12	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	880.9	880.9	880.9	880.9	880.9
2.5°	884.4	881.5	875.3	881.5	880.3
5°	880.3	878.1	872.9	879.2	878.1
7.5°	874.6	872.3	867.7	875.3	874.0
10°	864.9	863.8	860.3	869.0	868.4
12.5°	853.6	853.0	851.2	861.0	860.3
15°	839.3	839.8	839.8	851.2	851.2
17.5°	823.3	824.4	826.8	839.3	841.0
20°	804.5	806.8	811.4	825.7	827.9
22.5°	785.2	786.9	793.6	810.7	813.1
25°	761.1	765.7	774.8	794.3	797.7
27.5°	738.4	742.3	754.9	774.8	780.6
30°	711.5	717.8	732.7	754.4	760.7
32.5°	686.0	692.7	709.8	734.9	740.6
35°	655.2	665.4	687.1	712.2	718.9
37.5°	627.2	636.8	661.5	688.8	696.8
40°	596.3	608.4	636.4	665.4	673.4
42.5°	567.9	579.2	609.5	639.2	650.0
45°	533.7	549.7	580.9	613.4	624.9
47.5°	502.3	518.3	554.3	588.9	599.3
50°	470.9	488.0	525.7	561.6	571.8
52.5°	438.4	456.8	497.1	533.1	545.2
55°	404.2	425.4	467.6	504.0	514.9
57.5°	371.7	393.4	438.4	475.5	486.3
60°	339.8	362.1	408.3	443.6	455.1
62.5°	304.5	330.7	378.6	413.3	421.9
65°	272.5	299.3	346.1	380.8	390.5
67.5°	238.9	267.9	314.7	346.6	355.8
70°	207.0	237.2	282.2	311.9	315.8
72.5°	172.8	203.6	249.1	267.9	267.9
75°	141.9	173.3	215.5	219.0	216.1
77.5°	108.3	143.2	170.5	163.6	156.8
80°	78.2	112.4	124.8	112.4	103.1
82.5°	52.4	81.5	75.2	59.8	53.1
85°	29.0	43.3	29.7	16.5	11.9
87.5°	10.8	9.7	2.8	2.8	2.8
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)