

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: METALUX

Report Number: P731853

Luminaire Tested: **14CZ2-29-S-B2750-W2D-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731853  
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: METALUX  
Catalog Number: 14CZ2-29-S-B2750-W2D-3500K  
Description: 1X4 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

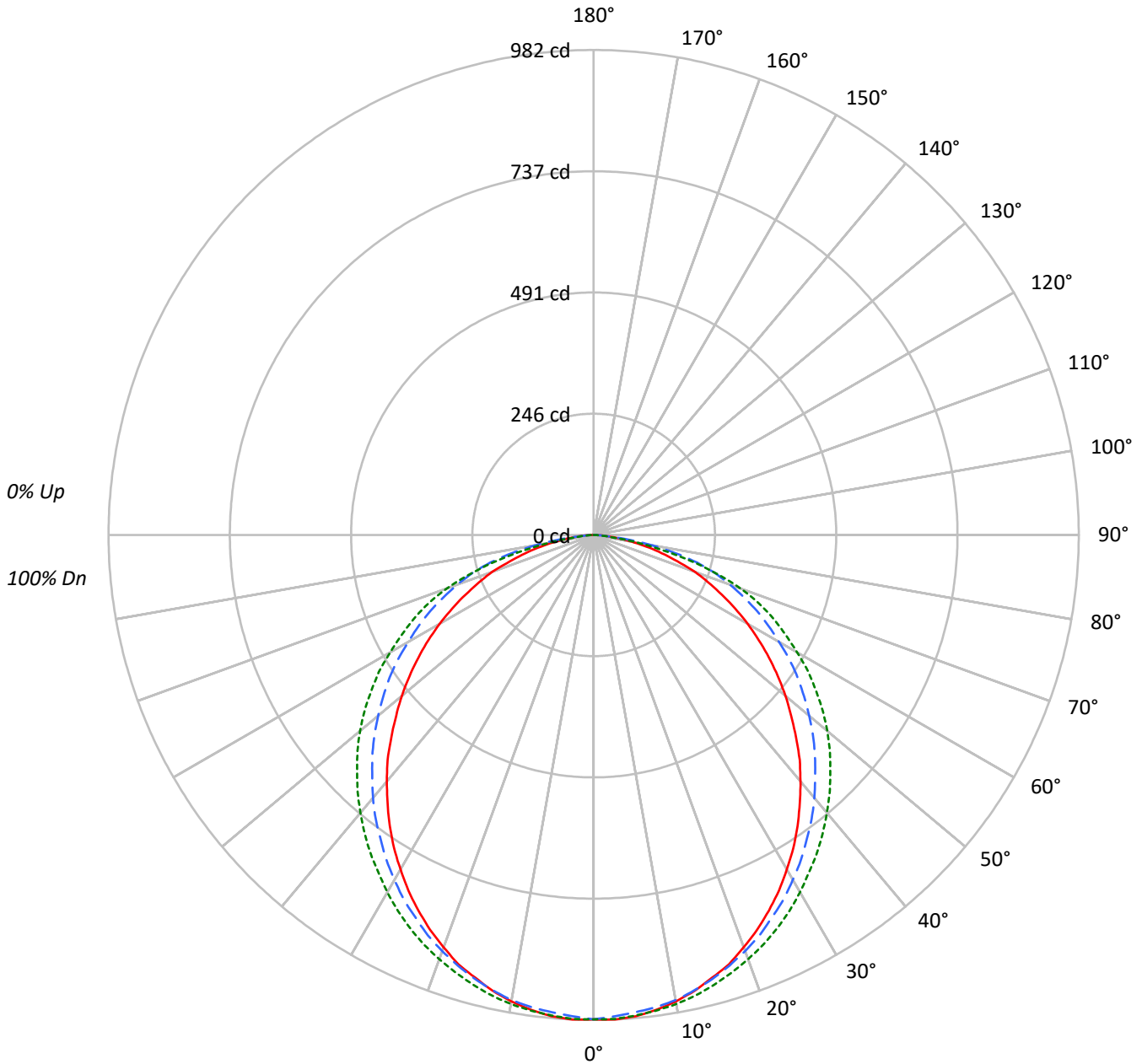
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2748.0 lumens  
Efficiency: N/A  
Efficacy: 119.5 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): 23  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P731853  
CATALOG NUMBER: 14CZ2-29-S-B2750-W2D-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P731853

CATALOG NUMBER: 14CZ2-29-S-B2750-W2D-3500K

**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°	2769	2769	2769
5°	2772	2749	2768
10°	2749	2742	2765
15°	2712	2719	2755
20°	2668	2693	2746
25°	2614	2661	2737
30°	2549	2629	2723
35°	2479	2592	2714
40°	2400	2560	2706
45°	2311	2529	2703
50°	2226	2501	2710
55°	2132	2481	2702
60°	2031	2446	2684
65°	1912	2439	2685
70°	1799	2418	2608
75°	1561	2363	2228
80°	1261	1905	1484
85°	839	661	444



TEST NUMBER: P731853

CATALOG NUMBER: 14CZ2-29-S-B2750-W2D-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.6	3.4
10°-20°	263.6	9.6
20°-30°	395.4	14.4
30°-40°	471.7	17.2
40°-50°	487.6	17.7
50°-60°	445.2	16.2
60°-70°	350.4	12.7
70°-80°	203.9	7.4
80°-90°	37.6	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°	751.6	27.4
0°-40°	1223.3	44.5
0°-60°	2156.1	78.5
0°-90°	2748.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2748.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	981	981	981	981	981	
5°	978	976	970	978	977	93
15°	928	929	931	943	943	262
25°	839	843	854	875	879	386
35°	719	729	752	781	788	450
45°	579	598	634	669	677	447
55°	433	456	504	541	549	387
65°	286	316	365	394	402	284
75°	143	177	217	212	204	152
85°	26	37	20	16	14	34
90°	0	0	0	0	0	



TEST NUMBER: P731853

CATALOG NUMBER: 14CZ2-29-S-B2750-W2D-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	981.0	981.0	981.0	981.0	981.0
2.5°	982.3	979.7	975.5	982.3	981.0
5°	978.3	975.5	970.1	978.3	976.8
7.5°	970.1	967.3	964.6	972.8	971.5
10°	959.1	957.8	956.5	966.0	964.6
12.5°	945.6	945.6	944.3	955.1	955.1
15°	927.9	929.2	930.6	942.8	942.8
17.5°	911.5	910.2	914.2	927.9	929.2
20°	888.3	891.0	896.5	912.9	914.2
22.5°	865.1	868.0	877.5	893.9	897.9
25°	839.3	843.4	854.3	874.7	878.8
27.5°	812.0	817.6	832.4	854.3	858.3
30°	782.0	790.2	806.5	831.1	835.3
32.5°	752.1	760.3	780.7	805.2	810.7
35°	719.4	728.9	752.1	780.7	787.5
37.5°	685.3	697.5	724.9	753.4	761.6
40°	651.3	665.0	694.8	724.9	734.4
42.5°	617.2	630.9	663.5	697.5	707.2
45°	579.0	598.2	633.6	669.0	677.1
47.5°	542.3	562.8	602.2	637.6	648.6
50°	506.9	527.2	569.5	606.4	617.2
52.5°	470.1	491.8	536.7	575.0	584.5
55°	433.2	456.4	504.2	540.9	549.1
57.5°	396.5	421.0	470.1	505.5	515.0
60°	359.8	385.7	433.2	468.6	475.5
62.5°	322.9	350.1	399.2	430.6	437.4
65°	286.2	316.0	365.1	393.8	402.0
67.5°	250.8	280.6	328.4	355.6	362.4
70°	218.0	245.2	293.0	313.4	316.0
72.5°	177.1	211.2	257.4	268.5	261.6
75°	143.1	177.1	216.7	212.5	204.3
77.5°	109.0	143.1	169.0	155.3	144.4
80°	77.6	111.7	117.2	96.7	91.3
82.5°	50.4	77.6	65.4	50.4	40.9
85°	25.9	36.7	20.4	16.4	13.7
87.5°	8.2	5.5	2.7	2.7	1.3
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)