

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: P731851

Luminaire Tested: **14CZ2-29-S-B2750-W2D-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731851  
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-2700K  
Description: 1X4 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

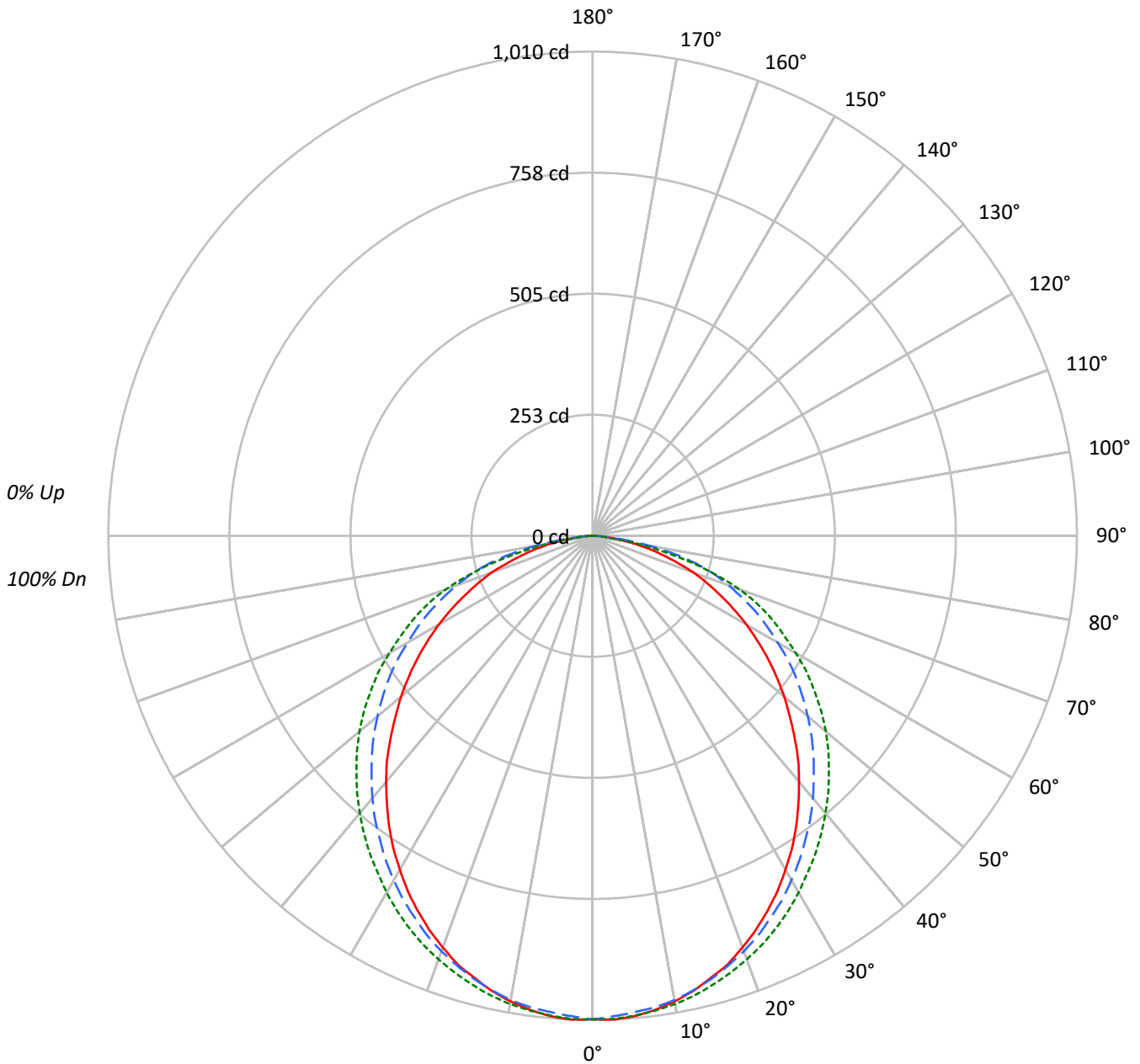
Lumens per Lamp: N/A  
Luminaire Lumens: 2826.0 lumens  
Efficiency: N/A  
Efficacy: 122.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 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: P731851

CATALOG NUMBER: 14CZ2-29-S-B2750-W2D-2700K

### Luminous Intensity Polar Plot





TEST NUMBER: P731851

CATALOG NUMBER: 14CZ2-29-S-B2750-W2D-2700K

**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°	2848	2848	2848
5°	2851	2827	2846
10°	2827	2819	2843
15°	2788	2797	2833
20°	2744	2770	2824
25°	2688	2736	2815
30°	2621	2703	2800
35°	2549	2665	2791
40°	2468	2633	2783
45°	2377	2601	2780
50°	2289	2572	2787
55°	2192	2552	2779
60°	2089	2515	2761
65°	1966	2508	2761
70°	1850	2487	2682
75°	1604	2431	2291
80°	1297	1959	1526
85°	861	677	457



TEST NUMBER: P731851

CATALOG NUMBER: 14CZ2-29-S-B2750-W2D-2700K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.3	3.4
10°-20°	271.1	9.6
20°-30°	406.6	14.4
30°-40°	485.1	17.2
40°-50°	501.5	17.7
50°-60°	457.9	16.2
60°-70°	360.3	12.7
70°-80°	209.7	7.4
80°-90°	38.6	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°	773.0	27.4
0°-40°	1258.0	44.5
0°-60°	2217.4	78.5
0°-90°	2826.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2826.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1009	1009	1009	1009	1009	
5°	1006	1003	998	1006	1005	95
15°	954	956	957	970	970	269
25°	863	867	878	900	904	397
35°	740	750	774	803	810	462
45°	595	615	652	688	696	460
55°	446	469	518	556	565	398
65°	294	325	376	405	413	292
75°	147	182	223	219	210	156
85°	27	38	21	17	14	34
90°	0	0	0	0	0	



TEST NUMBER: P731851

CATALOG NUMBER: 14CZ2-29-S-B2750-W2D-2700K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1008.8	1008.8	1008.8	1008.8	1008.8
2.5°	1010.2	1007.5	1003.2	1010.2	1008.8
5°	1006.1	1003.2	997.7	1006.1	1004.6
7.5°	997.7	994.8	992.0	1000.4	999.1
10°	986.4	985.0	983.6	993.4	992.0
12.5°	972.4	972.4	971.1	982.2	982.2
15°	954.2	955.6	957.0	969.5	969.5
17.5°	937.4	936.0	940.2	954.2	955.6
20°	913.6	916.3	922.0	938.8	940.2
22.5°	889.7	892.6	902.4	919.2	923.3
25°	863.1	867.4	878.5	899.5	903.8
27.5°	835.1	840.8	856.0	878.5	882.7
30°	804.2	812.6	829.4	854.7	859.0
32.5°	773.5	781.9	802.8	828.1	833.7
35°	739.8	749.6	773.5	802.8	809.9
37.5°	704.8	717.3	745.5	774.8	783.2
40°	669.8	683.8	714.6	745.5	755.3
42.5°	634.7	648.8	682.3	717.3	727.3
45°	595.4	615.2	651.6	688.0	696.4
47.5°	557.6	578.8	619.3	655.7	667.0
50°	521.2	542.2	585.6	623.6	634.7
52.5°	483.5	505.8	552.0	591.3	601.1
55°	445.5	469.4	518.5	556.3	564.7
57.5°	407.8	433.0	483.5	519.9	529.7
60°	370.0	396.6	445.5	481.9	489.0
62.5°	332.0	360.0	410.5	442.8	449.8
65°	294.3	325.0	375.5	405.0	413.4
67.5°	257.9	288.6	337.7	365.7	372.7
70°	224.2	252.2	301.3	322.3	325.0
72.5°	182.2	217.2	264.7	276.1	269.0
75°	147.1	182.2	222.9	218.6	210.1
77.5°	112.1	147.1	173.7	159.7	148.5
80°	79.8	114.9	120.5	99.4	93.9
82.5°	51.9	79.8	67.3	51.9	42.1
85°	26.6	37.8	20.9	16.8	14.1
87.5°	8.4	5.7	2.7	2.7	1.4
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)