

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: P842843

Luminaire Tested: **14CZ2-29-UNV-B40**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842843  
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: METALUX  
Catalog Number: 14CZ2-29-UNV-B40  
Description: 1X4 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RIBBED LENS  
  
Light Source: -  
Ballast/Driver: -

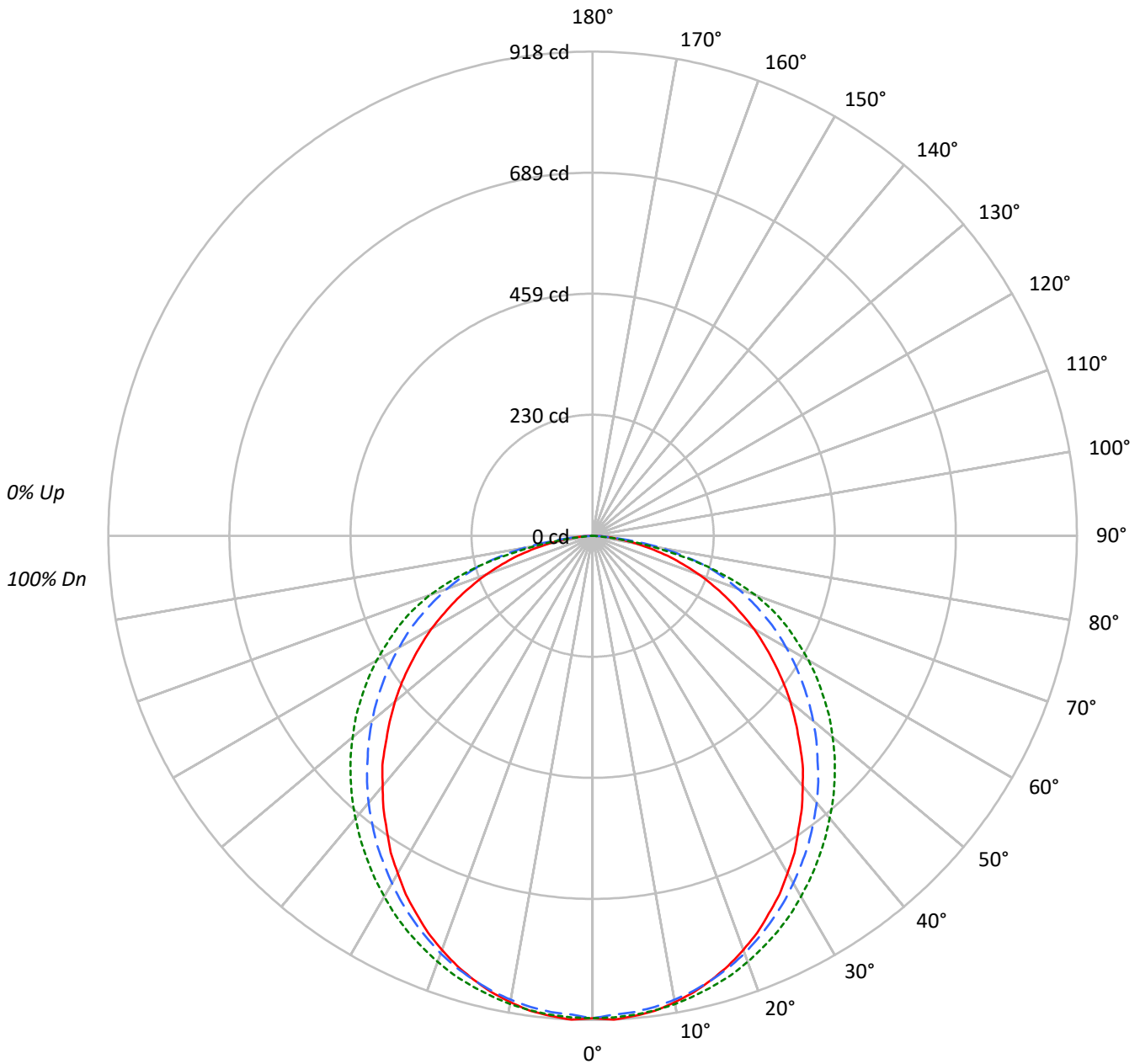
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2655.0 lumens  
Efficiency: N/A  
Efficacy: 115.4 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

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### Luminous Intensity Polar Plot





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**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	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°	2582	2582	2582
5°	2590	2568	2583
10°	2574	2560	2584
15°	2547	2548	2583
20°	2509	2531	2582
25°	2461	2506	2580
30°	2408	2480	2574
35°	2344	2458	2572
40°	2282	2435	2576
45°	2212	2408	2590
50°	2147	2397	2608
55°	2065	2389	2631
60°	1992	2393	2667
65°	1889	2400	2708
70°	1774	2418	2706
75°	1606	2441	2447
80°	1320	2107	1741
85°	978	998	402



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.6	3.3
10°-20°	247.2	9.3
20°-30°	372.4	14.0
30°-40°	446.9	16.8
40°-50°	465.8	17.5
50°-60°	431.2	16.2
60°-70°	348.4	13.1
70°-80°	212.4	8.0
80°-90°	43.8	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°	706.2	26.6
0°-40°	1153.2	43.4
0°-60°	2050.3	77.2
0°-90°	2655.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2655.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	915	915	915	915	915	
5°	914	912	906	913	912	87
15°	872	872	872	884	884	246
25°	790	795	804	825	828	364
35°	680	691	713	740	746	426
45°	554	571	603	637	649	428
55°	420	442	486	523	535	376
65°	283	311	359	395	406	280
75°	147	180	224	227	224	155
85°	30	45	31	17	12	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	914.7	914.7	914.7	914.7	914.7
2.5°	918.3	915.3	908.8	915.3	914.0
5°	914.0	911.7	906.4	912.9	911.7
7.5°	908.2	905.7	901.0	908.8	907.5
10°	898.0	896.9	893.3	902.3	901.6
12.5°	886.3	885.7	883.9	894.0	893.3
15°	871.5	872.0	872.0	883.9	883.9
17.5°	854.9	856.0	858.4	871.5	873.3
20°	835.3	837.7	842.5	857.3	859.6
22.5°	815.2	817.0	824.1	841.8	844.3
25°	790.3	795.0	804.5	824.7	828.3
27.5°	766.7	770.8	783.8	804.5	810.5
30°	738.8	745.3	760.8	783.3	789.8
32.5°	712.2	719.3	737.0	763.1	769.0
35°	680.3	690.9	713.4	739.5	746.5
37.5°	651.3	661.2	686.8	715.2	723.5
40°	619.2	631.7	660.7	690.9	699.2
42.5°	589.7	601.4	632.9	663.7	674.9
45°	554.1	570.8	603.2	636.9	648.8
47.5°	521.6	538.2	575.5	611.5	622.3
50°	489.0	506.7	545.8	583.2	593.8
52.5°	455.2	474.3	516.2	553.5	566.0
55°	419.7	441.7	485.5	523.3	534.6
57.5°	385.9	408.4	455.2	493.7	504.9
60°	352.9	376.0	423.9	460.6	472.5
62.5°	316.2	343.4	393.1	429.1	438.1
65°	282.9	310.8	359.4	395.4	405.5
67.5°	248.1	278.2	326.8	359.9	369.5
70°	215.0	246.3	293.0	323.9	327.9
72.5°	179.4	211.4	258.7	278.2	278.2
75°	147.3	179.9	223.8	227.4	224.4
77.5°	112.5	148.6	177.0	169.8	162.8
80°	81.2	116.7	129.6	116.7	107.1
82.5°	54.4	84.6	78.1	62.1	55.1
85°	30.2	45.0	30.8	17.1	12.4
87.5°	11.2	10.1	2.9	2.9	2.9
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)