

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: P842861

Luminaire Tested: **14CZ2-39-HRP-UNV-B40**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842861  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P294787)  
Test Lab: INNOVATIONS CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-39-HRP-UNV-B40  
Description: 1X4 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND HRP LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

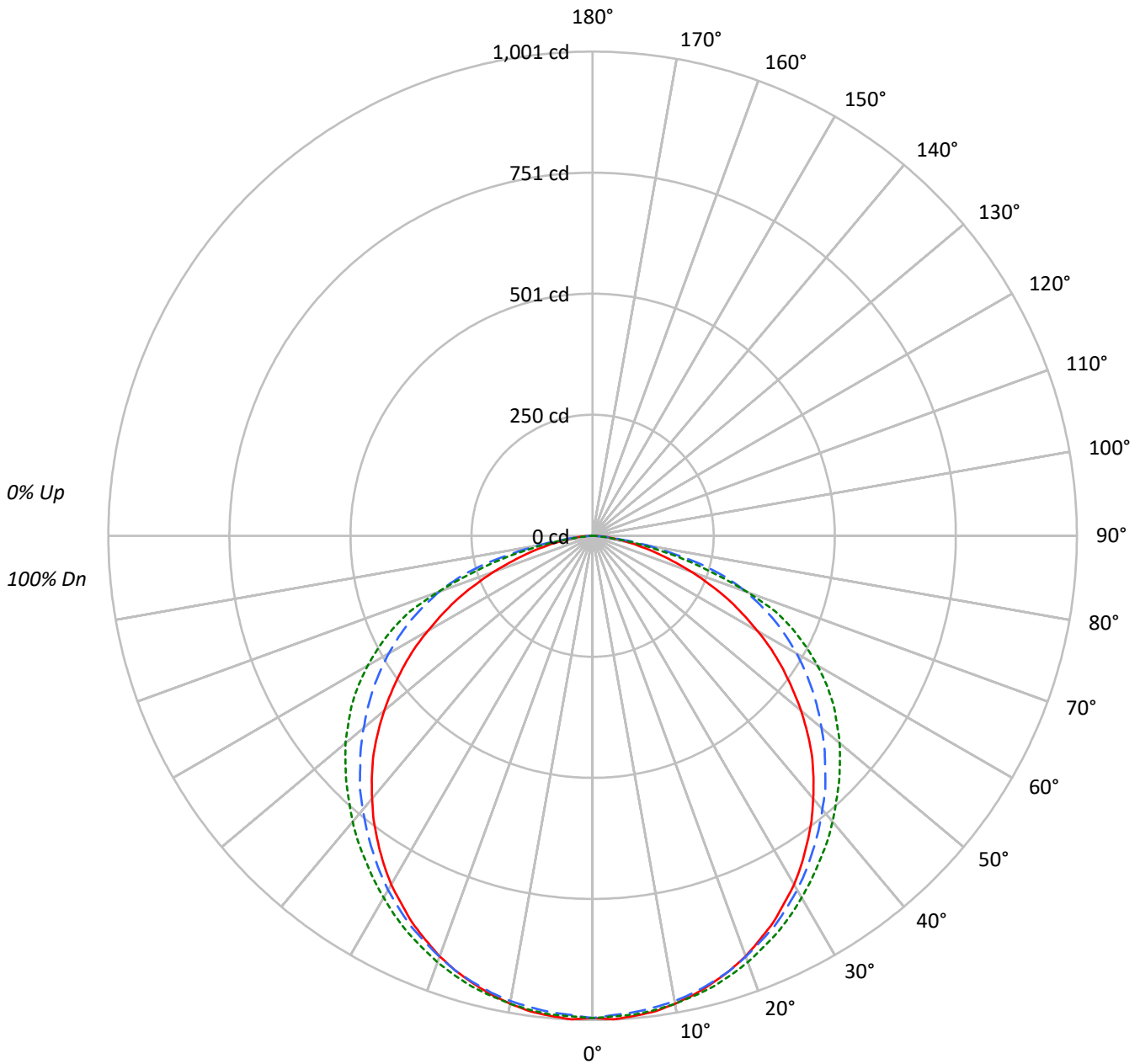
Lumens per Lamp: N/A  
Luminaire Lumens: 2936.0 lumens  
Efficiency: N/A  
Efficacy: 94.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 31  
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									
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	93	91	88	90	88	86	84																			
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37																			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33																			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	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	38	31	26	37	30	26	37	30	25	36	30	25	24																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2814	2814	2814
5°	2823	2802	2815
10°	2815	2800	2815
15°	2798	2793	2819
20°	2779	2781	2818
25°	2749	2772	2818
30°	2714	2756	2816
35°	2666	2736	2822
40°	2613	2722	2844
45°	2558	2712	2875
50°	2468	2712	2927
55°	2363	2726	2990
60°	2220	2746	3028
65°	2047	2774	3046
70°	1783	2780	2804
75°	1470	2589	2265
80°	1154	1861	1515
85°	900	719	356



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.4	3.2
10°-20°	270.9	9.2
20°-30°	411.3	14.0
30°-40°	498.4	17.0
40°-50°	525.2	17.9
50°-60°	490.3	16.7
60°-70°	391.8	13.3
70°-80°	215.6	7.3
80°-90°	38.1	1.3
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°	776.6	26.5
0°-40°	1275.0	43.4
0°-60°	2290.5	78.0
0°-90°	2936.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2936.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	997	997	997	997	997	
5°	996	994	989	995	994	95
15°	958	958	956	965	965	270
25°	883	884	890	903	905	406
35°	774	781	794	814	819	484
45°	641	653	679	710	720	493
55°	480	504	554	593	608	429
65°	306	345	415	450	456	302
75°	135	193	237	213	208	145
85°	28	35	22	14	11	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	997.0	997.0	997.0	997.0	997.0
2.5°	1000.7	997.9	991.6	997.0	994.4
5°	996.3	993.5	988.8	995.3	993.5
7.5°	991.6	987.9	983.2	990.7	988.8
10°	982.2	979.4	976.9	983.2	982.2
12.5°	971.3	970.3	967.5	975.0	974.1
15°	957.5	957.5	955.6	964.7	964.7
17.5°	942.5	941.6	942.5	952.8	951.9
20°	925.0	925.0	925.9	938.1	938.1
22.5°	903.7	904.7	907.5	922.2	921.3
25°	882.7	884.3	890.0	902.8	904.7
27.5°	856.8	861.4	867.8	883.4	885.3
30°	832.7	835.5	845.6	860.5	864.0
32.5°	804.2	809.6	820.8	837.4	842.1
35°	773.6	781.1	793.9	814.3	818.9
37.5°	743.2	749.8	767.3	788.3	796.7
40°	709.1	720.1	738.6	762.6	771.7
42.5°	675.7	686.9	711.9	736.7	745.1
45°	640.7	652.8	679.4	710.0	720.1
47.5°	601.9	615.9	650.0	682.2	693.2
50°	562.1	579.7	617.5	653.7	666.6
52.5°	520.8	542.8	586.2	624.1	636.2
55°	480.1	504.0	554.0	592.8	607.5
57.5°	438.6	464.5	520.8	565.0	573.4
60°	393.2	424.8	486.4	525.2	536.4
62.5°	349.1	385.0	451.4	488.3	497.7
65°	306.5	345.3	415.4	449.5	456.1
67.5°	260.3	306.5	375.7	407.2	408.9
70°	216.1	269.6	336.9	351.6	339.7
72.5°	172.7	229.9	291.8	279.7	269.6
75°	134.8	193.0	237.4	213.3	207.7
77.5°	99.8	157.9	169.9	157.0	146.7
80°	71.0	124.5	114.5	97.9	93.2
82.5°	48.8	78.5	62.9	48.8	42.5
85°	27.8	35.0	22.2	13.8	11.0
87.5°	11.9	8.4	4.7	3.7	3.7
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)