

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: P842874

Luminaire Tested: **14CZ2-39-UNV-B50**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842874  
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: 14CZ2-39-UNV-B50  
Description: 1X4 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RIBBED LENS  
  
Light Source: -  
Ballast/Driver: -

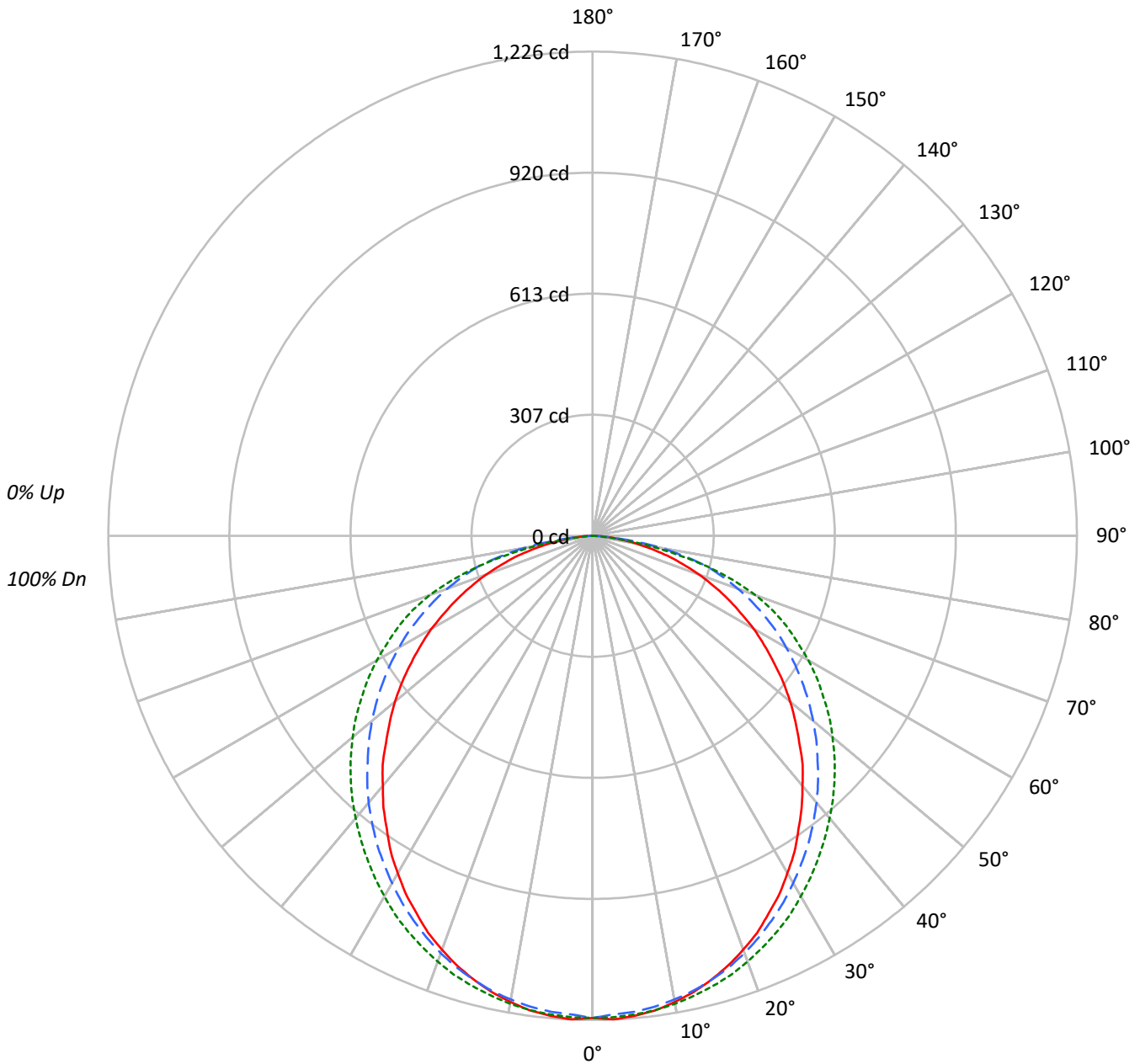
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3544.0 lumens  
Efficiency: N/A  
Efficacy: 114.3 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): 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	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°	3446	3446	3446
5°	3457	3428	3448
10°	3436	3418	3450
15°	3399	3401	3448
20°	3349	3378	3447
25°	3285	3345	3443
30°	3214	3310	3436
35°	3129	3281	3433
40°	3045	3250	3439
45°	2953	3214	3457
50°	2866	3200	3481
55°	2757	3189	3512
60°	2659	3195	3561
65°	2523	3204	3615
70°	2369	3229	3612
75°	2145	3258	3267
80°	1760	2812	2323
85°	1302	1331	534



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.5	3.3
10°-20°	330.0	9.3
20°-30°	497.2	14.0
30°-40°	596.6	16.8
40°-50°	621.8	17.5
50°-60°	575.6	16.2
60°-70°	465.1	13.1
70°-80°	283.6	8.0
80°-90°	58.5	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°	942.7	26.6
0°-40°	1539.3	43.4
0°-60°	2736.8	77.2
0°-90°	3544.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3544.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1221	1221	1221	1221	1221	
5°	1220	1217	1210	1218	1217	116
15°	1163	1164	1164	1180	1180	328
25°	1055	1061	1074	1101	1106	486
35°	908	922	952	987	996	569
45°	740	762	805	850	866	572
55°	560	590	648	699	714	502
65°	378	415	480	528	541	374
75°	197	240	299	304	300	207
85°	40	60	41	23	16	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1220.9	1220.9	1220.9	1220.9	1220.9
2.5°	1225.7	1221.8	1213.1	1221.8	1220.1
5°	1220.1	1217.0	1209.8	1218.5	1217.0
7.5°	1212.2	1209.0	1202.7	1213.1	1211.4
10°	1198.7	1197.2	1192.4	1204.4	1203.5
12.5°	1183.1	1182.2	1179.8	1193.3	1192.4
15°	1163.3	1163.9	1163.9	1179.8	1179.8
17.5°	1141.1	1142.6	1145.9	1163.3	1165.7
20°	1115.0	1118.3	1124.6	1144.4	1147.4
22.5°	1088.2	1090.6	1100.0	1123.7	1127.0
25°	1054.9	1061.3	1073.9	1100.8	1105.6
27.5°	1023.4	1028.8	1046.2	1073.9	1081.9
30°	986.2	994.9	1015.6	1045.6	1054.3
32.5°	950.7	960.1	983.8	1018.6	1026.4
35°	908.1	922.2	952.3	987.1	996.4
37.5°	869.4	882.6	916.8	954.6	965.7
40°	826.5	843.3	882.0	922.2	933.3
42.5°	787.1	802.8	844.8	885.9	900.9
45°	739.7	761.9	805.2	850.2	866.1
47.5°	696.2	718.4	768.2	816.3	830.6
50°	652.7	676.4	728.6	778.4	792.6
52.5°	607.6	633.1	689.0	738.8	755.6
55°	560.2	589.6	648.1	698.6	713.6
57.5°	515.2	545.2	607.6	659.0	674.0
60°	471.0	501.9	565.9	614.8	630.7
62.5°	422.1	458.4	524.8	572.8	584.8
65°	377.7	414.9	479.7	527.8	541.3
67.5°	331.1	371.4	436.2	480.4	493.2
70°	287.0	328.7	391.2	432.3	437.7
72.5°	239.5	282.2	345.3	371.4	371.4
75°	196.7	240.2	298.7	303.5	299.6
77.5°	150.1	198.4	236.3	226.7	217.3
80°	108.3	155.8	173.0	155.8	142.9
82.5°	72.7	112.9	104.2	82.9	73.5
85°	40.2	60.0	41.1	22.8	16.5
87.5°	15.0	13.5	3.9	3.9	3.9
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)