

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: P731897

Luminaire Tested: **14CZ2-39-RDP-B2750-W2D-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731897  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275838)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-39-RDP-B2750-W2D-3000K  
Description: 1X4 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RDP LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

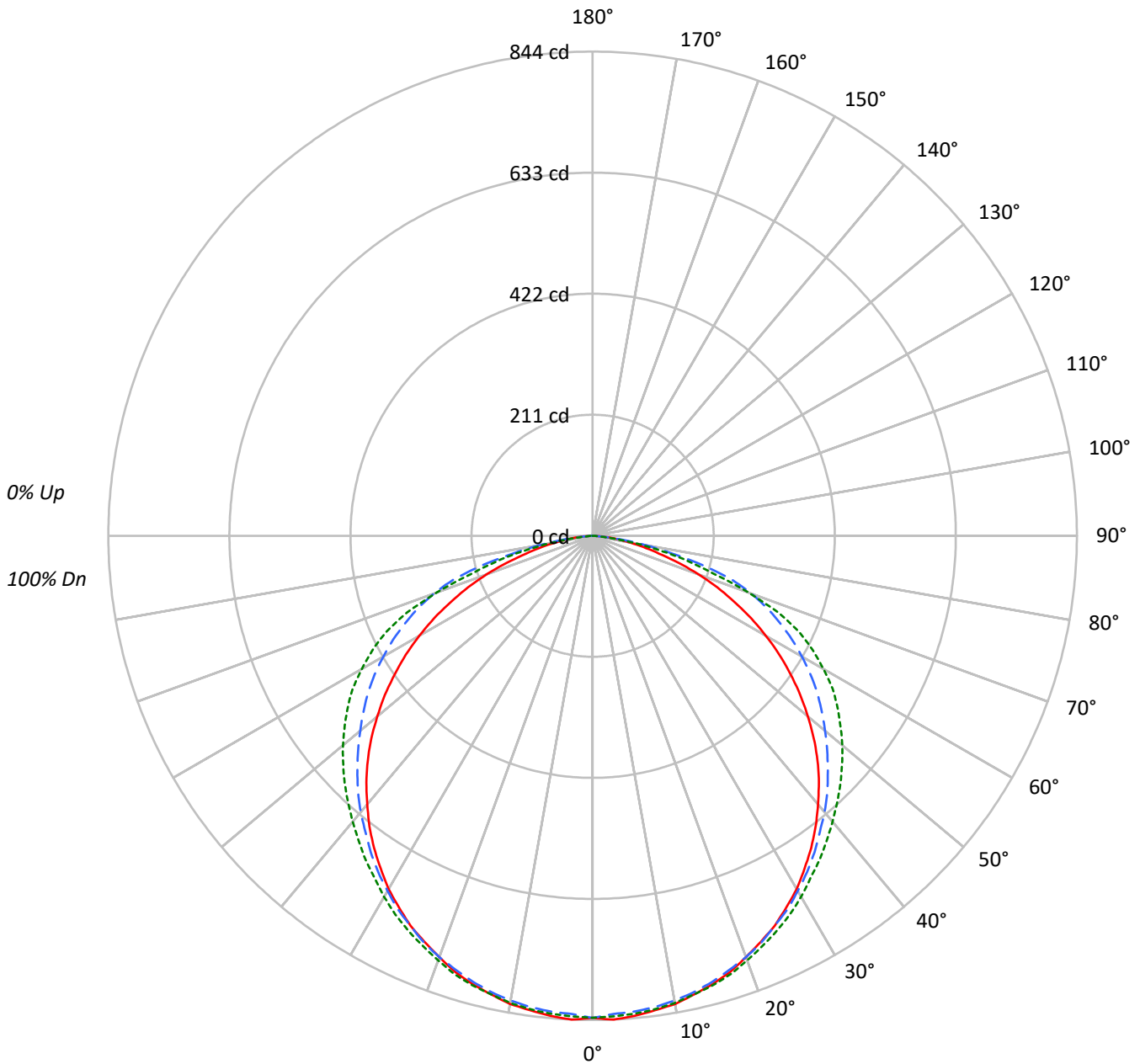
Lumens per Lamp: N/A  
Luminaire Lumens: 2509.0 lumens  
Efficiency: N/A  
Efficacy: 80.9 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 31  
Input Voltage (V): NR  
Input Current (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

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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	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	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	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32																			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29																			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26																			
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23																			

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

	0°	45°	90°
0°	2372	2372	2372
5°	2381	2359	2370
10°	2375	2358	2370
15°	2364	2352	2370
20°	2347	2347	2366
25°	2337	2337	2367
30°	2318	2330	2369
35°	2288	2322	2376
40°	2251	2317	2397
45°	2213	2314	2439
50°	2151	2323	2495
55°	2072	2352	2564
60°	1968	2377	2621
65°	1819	2407	2656
70°	1617	2426	2376
75°	1304	2179	1901
80°	1019	1530	1242
85°	700	444	317



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.5	3.2
10°-20°	228.2	9.1
20°-30°	347.5	13.8
30°-40°	423.2	16.9
40°-50°	449.0	17.9
50°-60°	423.7	16.9
60°-70°	342.1	13.6
70°-80°	185.6	7.4
80°-90°	30.0	1.2
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°	655.2	26.1
0°-40°	1078.4	43.0
0°-60°	1951.2	77.8
0°-90°	2509.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2509.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	840	840	840	840	840	
5°	840	838	832	838	836	80
15°	809	807	805	811	811	228
25°	750	748	750	758	760	345
35°	664	668	674	688	690	415
45°	554	562	580	601	611	427
55°	421	439	478	509	521	376
65°	272	306	360	390	398	270
75°	120	174	200	180	174	131
85°	22	24	14	12	10	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	840.3	840.3	840.3	840.3	840.3
2.5°	844.2	840.3	834.3	840.3	838.4
5°	840.3	838.4	832.4	838.4	836.5
7.5°	834.3	834.3	828.6	832.4	832.4
10°	828.6	826.7	822.8	828.6	826.7
12.5°	818.7	816.8	814.9	820.6	818.7
15°	808.9	807.0	805.0	811.0	811.0
17.5°	797.1	795.2	793.3	801.2	801.2
20°	781.5	781.5	781.5	789.4	787.5
22.5°	765.9	765.9	767.8	775.7	773.8
25°	750.3	748.4	750.3	758.0	759.9
27.5°	730.6	732.5	734.5	742.4	744.3
30°	711.2	713.1	715.0	724.8	726.8
32.5°	687.6	691.5	695.3	707.1	707.1
35°	664.1	667.9	673.9	687.6	689.6
37.5°	638.7	642.5	650.4	666.0	669.9
40°	611.0	617.0	628.8	644.4	650.4
42.5°	583.7	591.6	605.3	622.8	630.7
45°	554.4	562.1	579.8	601.4	611.0
47.5°	522.9	532.8	554.4	581.8	589.7
50°	489.8	503.5	528.9	558.2	568.1
52.5°	456.4	472.0	503.5	534.7	544.5
55°	421.1	438.7	478.0	509.2	521.0
57.5°	385.8	405.5	450.4	483.8	495.6
60°	348.6	372.1	421.1	454.5	464.3
62.5°	311.4	338.8	391.8	425.0	432.9
65°	272.3	305.6	360.4	389.9	397.6
67.5°	235.1	274.2	329.2	350.5	350.5
70°	195.9	238.9	293.9	299.6	287.9
72.5°	156.8	205.8	254.7	233.1	223.3
75°	119.6	174.3	199.8	180.3	174.3
77.5°	90.0	140.9	140.9	129.2	125.3
80°	62.7	107.8	94.1	82.4	76.4
82.5°	41.1	60.7	49.0	39.1	33.4
85°	21.6	23.5	13.7	11.8	9.8
87.5°	7.9	3.8	1.9	3.8	1.9
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)