

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: P731899

Luminaire Tested: **14CZ2-39-RDP-B2750-W2D-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731899  
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-4000K  
Description: 1X4 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RDP LENS

Light Source: -  
Ballast/Driver: -

**Summary**

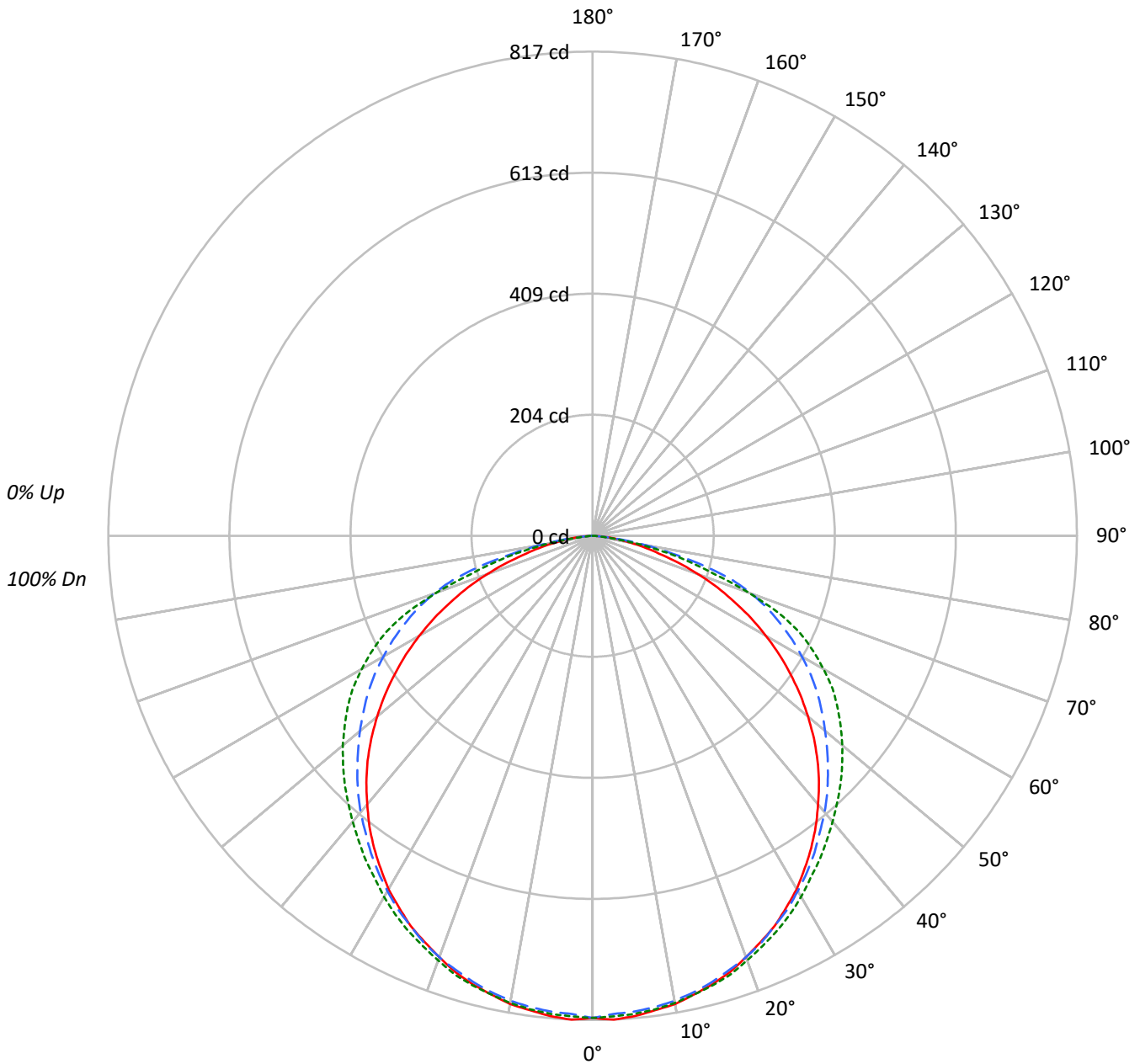
Lumens per Lamp: N/A  
Luminaire Lumens: 2429.0 lumens  
Efficiency: N/A  
Efficacy: 78.4 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	2296	2296	2296
5°	2305	2283	2295
10°	2299	2283	2294
15°	2288	2278	2295
20°	2273	2273	2290
25°	2262	2262	2291
30°	2244	2256	2293
35°	2215	2248	2300
40°	2180	2243	2320
45°	2142	2241	2362
50°	2082	2249	2415
55°	2006	2278	2482
60°	1905	2302	2538
65°	1761	2330	2571
70°	1566	2348	2300
75°	1263	2109	1841
80°	987	1481	1201
85°	677	428	308



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.0	3.2
10°-20°	220.9	9.1
20°-30°	336.4	13.8
30°-40°	409.7	16.9
40°-50°	434.7	17.9
50°-60°	410.3	16.9
60°-70°	331.2	13.6
70°-80°	179.7	7.4
80°-90°	29.1	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°	634.3	26.1
0°-40°	1044.1	43.0
0°-60°	1889.0	77.8
0°-90°	2429.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2429.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	814	814	814	814	814	
5°	814	812	806	812	810	77
15°	783	781	779	785	785	221
25°	726	724	726	734	736	334
35°	643	647	652	666	668	402
45°	537	544	561	582	592	413
55°	408	425	463	493	504	364
65°	264	296	349	378	385	261
75°	116	169	193	175	169	126
85°	21	23	13	11	10	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	813.5	813.5	813.5	813.5	813.5
2.5°	817.3	813.5	807.7	813.5	811.7
5°	813.5	811.7	805.9	811.7	809.8
7.5°	807.7	807.7	802.2	805.9	805.9
10°	802.2	800.3	796.6	802.2	800.3
12.5°	792.6	790.8	788.9	794.5	792.6
15°	783.1	781.2	779.4	785.2	785.2
17.5°	771.7	769.8	768.0	775.7	775.7
20°	756.6	756.6	756.6	764.3	762.4
22.5°	741.5	741.5	743.3	751.0	749.2
25°	726.4	724.5	726.4	733.8	735.7
27.5°	707.3	709.2	711.0	718.7	720.6
30°	688.5	690.3	692.2	701.7	703.6
32.5°	665.7	669.4	673.1	684.5	684.5
35°	642.9	646.6	652.5	665.7	667.6
37.5°	618.3	622.0	629.7	644.8	648.5
40°	591.6	597.4	608.8	623.9	629.7
42.5°	565.1	572.7	586.0	603.0	610.6
45°	536.7	544.1	561.3	582.3	591.6
47.5°	506.3	515.8	536.7	563.2	570.9
50°	474.2	487.4	512.1	540.4	550.0
52.5°	441.9	457.0	487.4	517.6	527.2
55°	407.7	424.7	462.8	493.0	504.4
57.5°	373.5	392.6	436.1	468.4	479.8
60°	337.5	360.3	407.7	440.0	449.5
62.5°	301.5	328.0	379.3	411.4	419.1
65°	263.6	295.9	348.9	377.5	384.9
67.5°	227.6	265.4	318.7	339.4	339.4
70°	189.7	231.3	284.5	290.1	278.7
72.5°	151.8	199.2	246.6	225.7	216.2
75°	115.8	168.8	193.4	174.6	168.8
77.5°	87.2	136.4	136.4	125.1	121.3
80°	60.7	104.4	91.1	79.7	73.9
82.5°	39.7	58.8	47.4	37.9	32.3
85°	20.9	22.8	13.2	11.4	9.5
87.5°	7.7	3.7	1.9	3.7	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)