

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: P842867

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842867  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275670)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-39-S-UNV-B40  
Description: 1X4 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

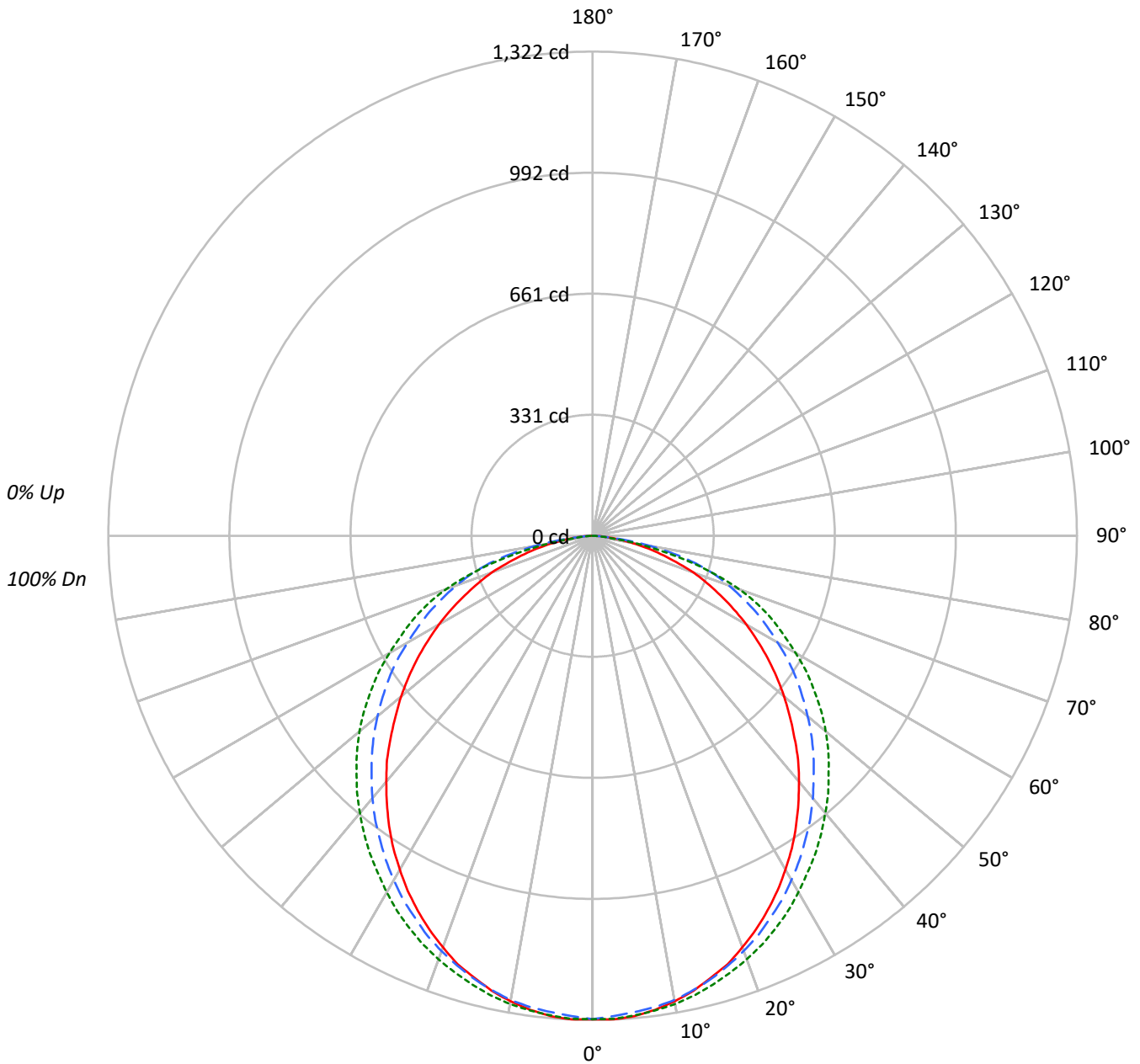
Lumens per Lamp: N/A  
Luminaire Lumens: 3698.0 lumens  
Efficiency: N/A  
Efficacy: 119.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P842867

CATALOG NUMBER: 14CZ2-39-S-UNV-B40

### Luminous Intensity Polar Plot





TEST NUMBER: P842867

CATALOG NUMBER: 14CZ2-39-S-UNV-B40

**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	94	91	89	90	88	86	84																			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70																			
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58																			
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50																			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43																			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38																			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33																			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30																			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27																			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24																			

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

	0°	45°	90°
0°	3726	3726	3726
5°	3730	3699	3725
10°	3699	3689	3721
15°	3649	3660	3707
20°	3591	3624	3696
25°	3517	3580	3683
30°	3430	3538	3664
35°	3336	3488	3652
40°	3229	3446	3642
45°	3110	3403	3637
50°	2995	3365	3647
55°	2869	3339	3636
60°	2733	3291	3612
65°	2572	3281	3613
70°	2421	3254	3510
75°	2099	3180	2999
80°	1699	2563	1998
85°	1127	887	596



TEST NUMBER: P842867

CATALOG NUMBER: 14CZ2-39-S-UNV-B40

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.7	3.4
10°-20°	354.7	9.6
20°-30°	532.1	14.4
30°-40°	634.7	17.2
40°-50°	656.2	17.7
50°-60°	599.1	16.2
60°-70°	471.5	12.7
70°-80°	274.4	7.4
80°-90°	50.5	1.4
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°	1011.5	27.4
0°-40°	1646.2	44.5
0°-60°	2901.5	78.5
0°-90°	3698.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3698.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1320	1320	1320	1320	1320	
5°	1316	1313	1306	1316	1314	125
15°	1249	1250	1252	1269	1269	352
25°	1129	1135	1150	1177	1183	520
35°	968	981	1012	1050	1060	605
45°	779	805	853	900	911	602
55°	583	614	678	728	739	521
65°	385	425	491	530	541	382
75°	192	238	292	286	275	205
85°	35	49	27	22	18	45
90°	0	0	0	0	0	



TEST NUMBER: P842867

CATALOG NUMBER: 14CZ2-39-S-UNV-B40

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1320.1	1320.1	1320.1	1320.1	1320.1
2.5°	1321.9	1318.3	1312.7	1321.9	1320.1
5°	1316.5	1312.7	1305.5	1316.5	1314.5
7.5°	1305.5	1301.7	1298.1	1309.1	1307.3
10°	1290.7	1288.9	1287.1	1299.9	1298.1
12.5°	1272.5	1272.5	1270.7	1285.3	1285.3
15°	1248.7	1250.5	1252.3	1268.7	1268.7
17.5°	1226.7	1224.9	1230.3	1248.7	1250.5
20°	1195.4	1199.0	1206.5	1228.5	1230.3
22.5°	1164.2	1168.0	1180.8	1202.9	1208.3
25°	1129.4	1135.0	1149.6	1177.0	1182.6
27.5°	1092.8	1100.2	1120.2	1149.6	1155.0
30°	1052.3	1063.3	1085.4	1118.4	1124.0
32.5°	1012.1	1023.1	1050.5	1083.6	1091.0
35°	968.1	980.9	1012.1	1050.5	1059.7
37.5°	922.3	938.7	975.5	1013.9	1024.9
40°	876.4	894.8	935.1	975.5	988.3
42.5°	830.6	849.0	892.8	938.7	951.7
45°	779.1	805.0	852.6	900.2	911.2
47.5°	729.7	757.3	810.4	858.0	872.8
50°	682.1	709.5	766.3	816.0	830.6
52.5°	632.7	661.9	722.3	773.7	786.6
55°	583.0	614.2	678.5	727.9	738.9
57.5°	533.6	566.6	632.7	680.3	693.1
60°	484.2	519.0	583.0	630.6	639.8
62.5°	434.5	471.1	537.2	579.4	588.6
65°	385.1	425.3	491.3	530.0	541.0
67.5°	337.4	377.7	441.9	478.5	487.7
70°	293.4	330.0	394.3	421.7	425.3
72.5°	238.4	284.2	346.4	361.3	352.1
75°	192.5	238.4	291.6	286.0	275.0
77.5°	146.7	192.5	227.4	208.9	194.3
80°	104.5	150.3	157.7	130.1	122.9
82.5°	67.8	104.5	88.1	67.8	55.0
85°	34.8	49.4	27.4	22.0	18.4
87.5°	11.0	7.4	3.6	3.6	1.8
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)