

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: P731887

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731887  
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-B2750-W2D-3000K  
Description: 1X4 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RIBBED LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

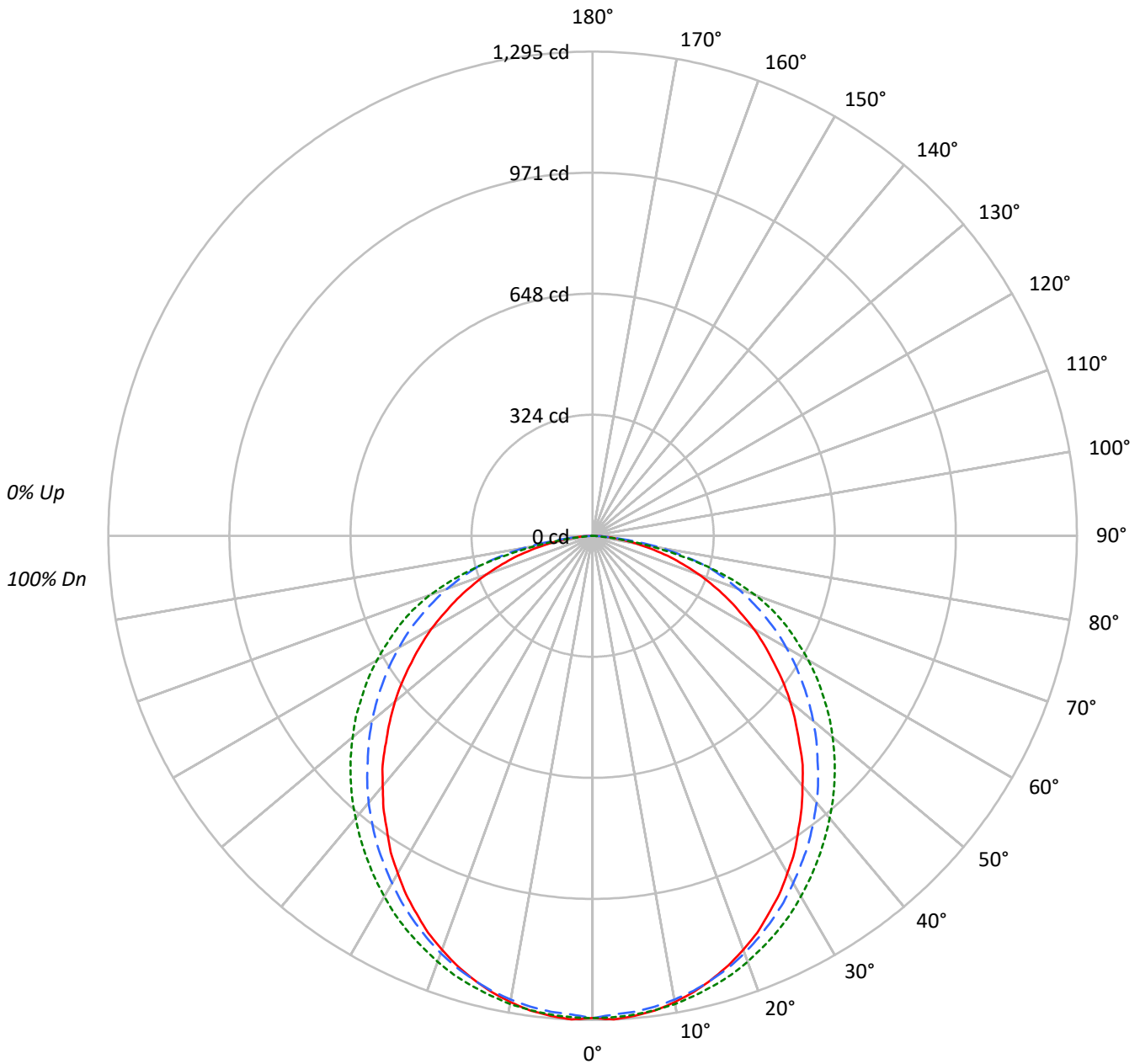
Lumens per Lamp: N/A  
Luminaire Lumens: 3744.0 lumens  
Efficiency: N/A  
Efficacy: 120.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 31  
Input Voltage (V): NR  
Input Current (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: P731887

CATALOG NUMBER: 14CZ2-39-B2750-W2D-3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P731887

CATALOG NUMBER: 14CZ2-39-B2750-W2D-3000K

**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°	3641	3641	3641
5°	3652	3621	3643
10°	3630	3611	3644
15°	3591	3593	3642
20°	3538	3569	3641
25°	3471	3533	3638
30°	3396	3497	3630
35°	3306	3467	3627
40°	3217	3433	3633
45°	3119	3395	3653
50°	3028	3380	3677
55°	2912	3370	3710
60°	2809	3375	3762
65°	2665	3385	3819
70°	2502	3410	3816
75°	2266	3442	3452
80°	1861	2970	2455
85°	1376	1406	567



TEST NUMBER: P731887

CATALOG NUMBER: 14CZ2-39-B2750-W2D-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.1	3.3
10°-20°	348.6	9.3
20°-30°	525.2	14.0
30°-40°	630.3	16.8
40°-50°	656.9	17.5
50°-60°	608.1	16.2
60°-70°	491.4	13.1
70°-80°	299.6	8.0
80°-90°	61.8	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°	995.9	26.6
0°-40°	1626.2	43.4
0°-60°	2891.2	77.2
0°-90°	3744.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3744.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1290	1290	1290	1290	1290	
5°	1289	1286	1278	1287	1286	122
15°	1229	1230	1230	1246	1246	346
25°	1114	1121	1134	1163	1168	514
35°	959	974	1006	1043	1053	601
45°	781	805	851	898	915	604
55°	592	623	685	738	754	530
65°	399	438	507	558	572	395
75°	208	254	316	321	316	218
85°	42	63	43	24	18	52
90°	0	0	0	0	0	



TEST NUMBER: P731887

CATALOG NUMBER: 14CZ2-39-B2750-W2D-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1289.8	1289.8	1289.8	1289.8	1289.8
2.5°	1294.9	1290.8	1281.6	1290.8	1288.9
5°	1288.9	1285.7	1278.1	1287.3	1285.7
7.5°	1280.6	1277.2	1270.5	1281.6	1279.7
10°	1266.4	1264.8	1259.7	1272.4	1271.5
12.5°	1249.8	1248.9	1246.4	1260.7	1259.7
15°	1228.9	1229.6	1229.6	1246.4	1246.4
17.5°	1205.5	1207.1	1210.5	1228.9	1231.5
20°	1177.9	1181.4	1188.0	1208.9	1212.2
22.5°	1149.6	1152.2	1162.1	1187.1	1190.6
25°	1114.5	1121.1	1134.5	1163.0	1168.0
27.5°	1081.1	1086.9	1105.3	1134.5	1143.0
30°	1041.8	1051.0	1072.9	1104.6	1113.8
32.5°	1004.4	1014.3	1039.3	1076.1	1084.4
35°	959.3	974.3	1006.0	1042.8	1052.6
37.5°	918.4	932.4	968.5	1008.5	1020.2
40°	873.1	890.8	931.8	974.3	986.0
42.5°	831.5	848.1	892.5	935.9	951.8
45°	781.4	804.9	850.6	898.2	915.0
47.5°	735.5	758.9	811.6	862.3	877.5
50°	689.5	714.6	769.7	822.4	837.3
52.5°	641.9	668.8	727.9	780.5	798.2
55°	591.8	622.9	684.7	738.0	753.9
57.5°	544.3	576.0	641.9	696.2	712.0
60°	497.6	530.2	597.8	649.5	666.3
62.5°	445.9	484.3	554.4	605.2	617.8
65°	399.0	438.3	506.8	557.6	571.8
67.5°	349.8	392.3	460.8	507.5	521.0
70°	303.2	347.3	413.2	456.7	462.4
72.5°	253.0	298.1	364.7	392.3	392.3
75°	207.8	253.7	315.6	320.6	316.5
77.5°	158.6	209.6	249.6	239.5	229.6
80°	114.5	164.6	182.7	164.6	151.0
82.5°	76.8	119.3	110.1	87.6	77.7
85°	42.5	63.4	43.4	24.1	17.5
87.5°	15.9	14.2	4.1	4.1	4.1
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)