

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: P842883

Luminaire Tested: **14CZ2-44-S-UNV-B50**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842883  
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: 14CZ2-44-S-UNV-B50  
Description: 1X4 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

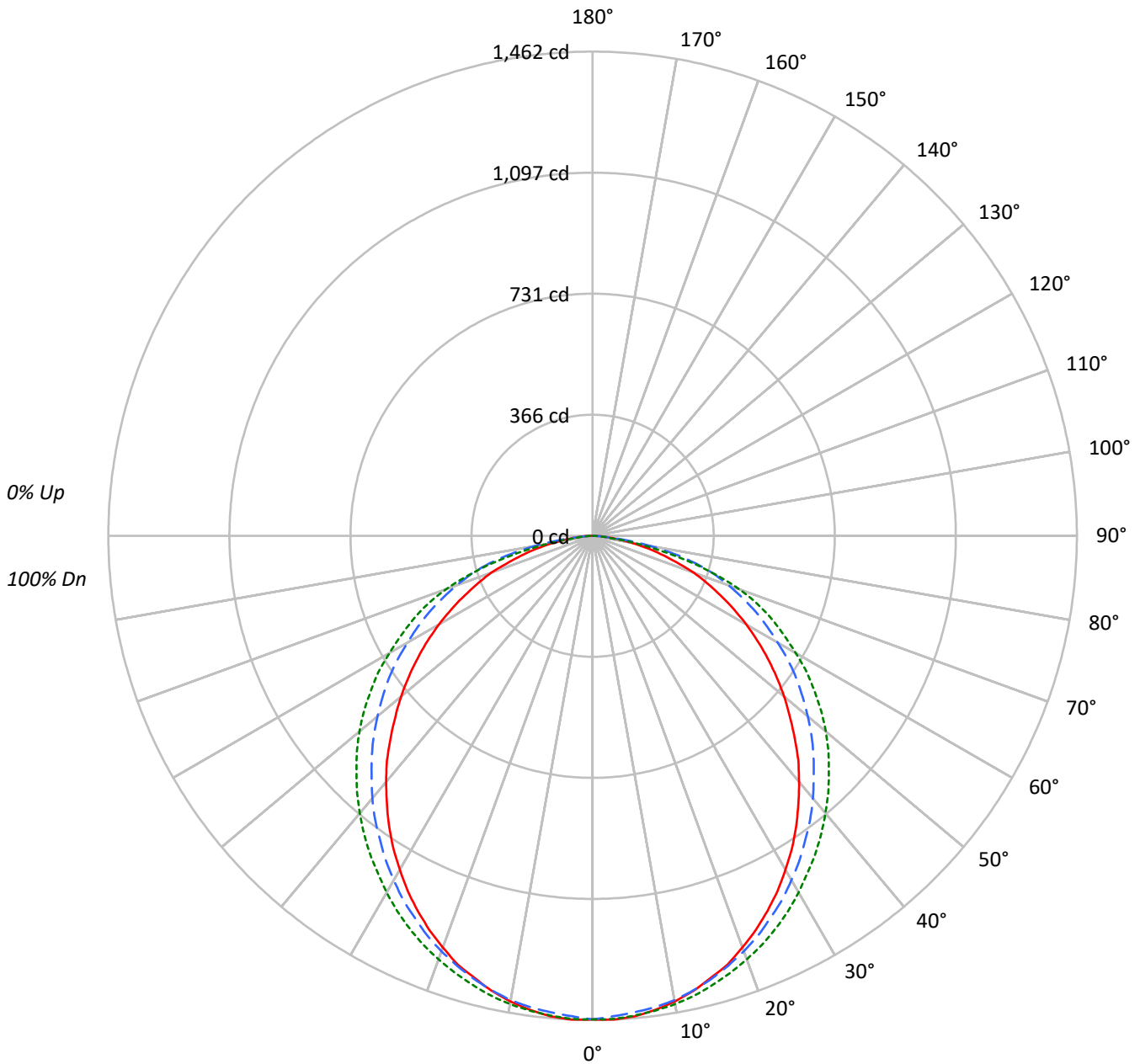
Lumens per Lamp: N/A  
Luminaire Lumens: 4091.0 lumens  
Efficiency: N/A  
Efficacy: 113.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 36  
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	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°	4122	4122	4122
5°	4127	4092	4120
10°	4093	4081	4116
15°	4037	4048	4101
20°	3973	4009	4088
25°	3891	3961	4075
30°	3795	3914	4053
35°	3691	3858	4040
40°	3573	3812	4029
45°	3441	3765	4024
50°	3314	3723	4035
55°	3174	3694	4023
60°	3024	3641	3996
65°	2845	3631	3997
70°	2679	3600	3883
75°	2323	3518	3318
80°	1879	2837	2211
85°	1247	981	661



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.9	3.4
10°-20°	392.4	9.6
20°-30°	588.6	14.4
30°-40°	702.2	17.2
40°-50°	725.9	17.7
50°-60°	662.8	16.2
60°-70°	521.6	12.7
70°-80°	303.6	7.4
80°-90°	55.9	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°	1119.0	27.4
0°-40°	1821.2	44.5
0°-60°	3209.9	78.5
0°-90°	4091.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4091.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1460	1460	1460	1460	1460	
5°	1456	1452	1444	1456	1454	138
15°	1381	1383	1385	1404	1404	390
25°	1249	1256	1272	1302	1308	575
35°	1071	1085	1120	1162	1172	669
45°	862	890	943	996	1008	666
55°	645	680	751	805	818	577
65°	426	470	544	586	598	423
75°	213	264	323	316	304	226
85°	38	55	30	24	20	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1460.4	1460.4	1460.4	1460.4	1460.4
2.5°	1462.4	1458.4	1452.2	1462.4	1460.4
5°	1456.5	1452.2	1444.3	1456.5	1454.2
7.5°	1444.3	1440.1	1436.1	1448.3	1446.3
10°	1427.9	1425.9	1423.9	1438.1	1436.1
12.5°	1407.7	1407.7	1405.8	1421.9	1421.9
15°	1381.4	1383.4	1385.4	1403.5	1403.5
17.5°	1357.0	1355.0	1361.0	1381.4	1383.4
20°	1322.5	1326.5	1334.7	1359.0	1361.0
22.5°	1287.9	1292.2	1306.3	1330.7	1336.7
25°	1249.4	1255.6	1271.8	1302.1	1308.3
27.5°	1208.9	1217.1	1239.2	1271.8	1277.8
30°	1164.2	1176.3	1200.7	1237.2	1243.5
32.5°	1119.7	1131.9	1162.2	1198.7	1206.9
35°	1071.0	1085.1	1119.7	1162.2	1172.4
37.5°	1020.3	1038.4	1079.2	1121.7	1133.8
40°	969.6	989.9	1034.4	1079.2	1093.3
42.5°	918.9	939.2	987.7	1038.4	1052.8
45°	861.9	890.5	943.2	995.9	1008.1
47.5°	807.3	837.8	896.5	949.2	965.6
50°	754.6	784.9	847.8	902.7	918.9
52.5°	699.9	732.2	799.1	856.0	870.1
55°	645.0	679.5	750.6	805.3	817.5
57.5°	590.3	626.8	699.9	752.6	766.8
60°	535.6	574.1	645.0	697.7	707.8
62.5°	480.7	521.2	594.3	641.0	651.2
65°	426.0	470.5	543.6	586.3	598.5
67.5°	373.3	417.8	488.9	529.4	539.6
70°	324.6	365.1	436.2	466.5	470.5
72.5°	263.7	314.4	383.3	399.7	389.5
75°	213.0	263.7	322.6	316.4	304.2
77.5°	162.3	213.0	251.5	231.1	215.0
80°	115.6	166.3	174.5	143.9	136.0
82.5°	75.1	115.6	97.4	75.1	60.9
85°	38.5	54.7	30.3	24.4	20.4
87.5°	12.2	8.2	4.0	4.0	2.0
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)