

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: P881130

Luminaire Tested: **22CZ2-44VHE-S-UNV-B50**

Issue Date: 10/2/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P881130  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P475230)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-44VHE-S-UNV-B50  
Description: 2X2 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SMOOTH LENS

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

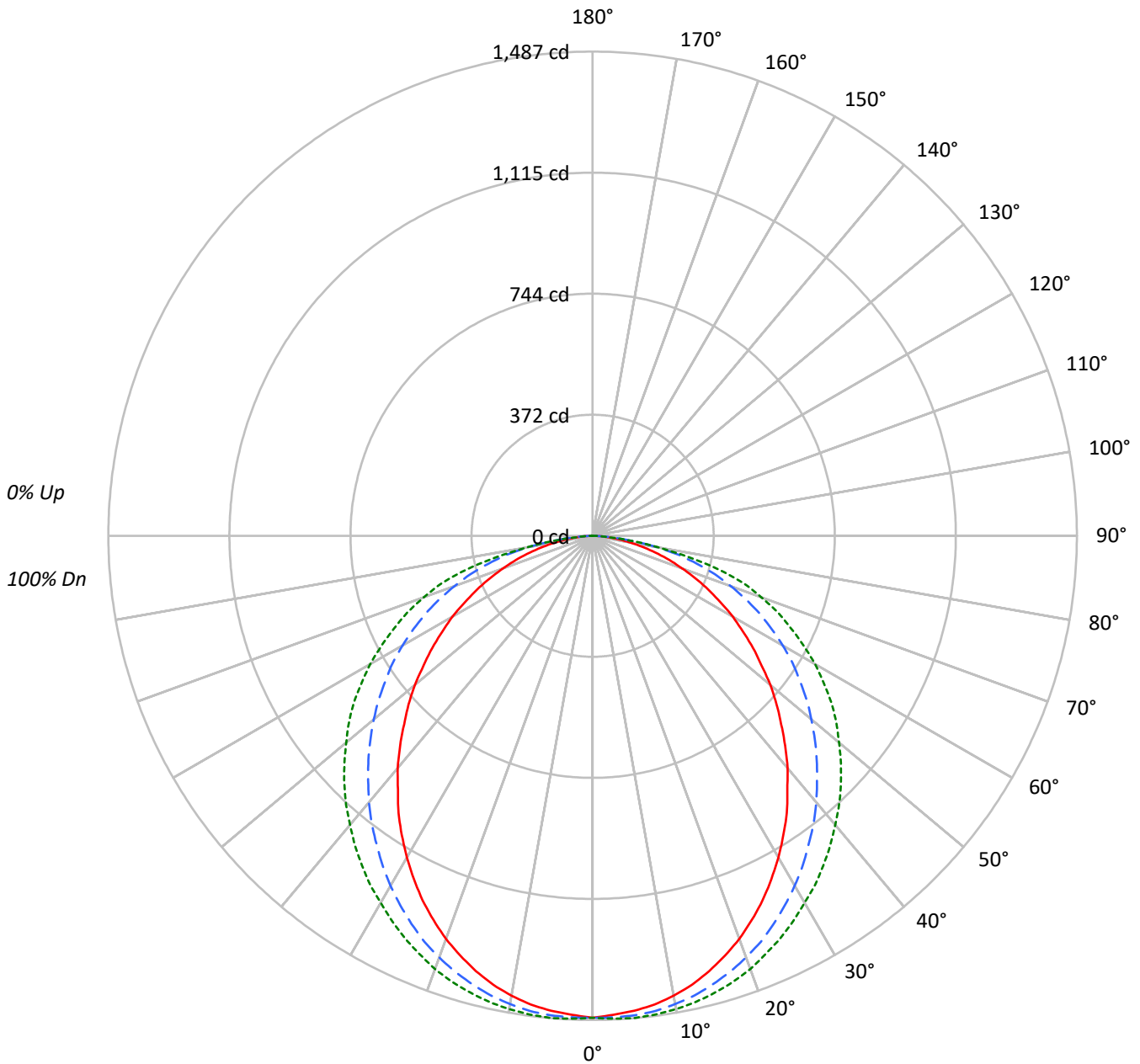
Lumens per Lamp: N/A  
Luminaire Lumens: 4238.0 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 37  
Input Voltage (V): NR  
Input Current (Ain): 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	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83																			
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	72	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43																			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37																			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26																			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24																			

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

	0°	45°	90°
0°	4201	4201	4201
5°	4171	4211	4234
10°	4132	4208	4254
15°	4066	4189	4267
20°	3978	4161	4276
25°	3867	4119	4270
30°	3737	4066	4264
35°	3602	4006	4279
40°	3450	3957	4292
45°	3285	3907	4327
50°	3144	3871	4360
55°	2975	3840	4429
60°	2820	3826	4475
65°	2633	3795	4511
70°	2418	3737	4572
75°	2185	3638	4409
80°	1871	3222	3319
85°	1504	1898	1504



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.4	3.3
10°-20°	401.3	9.5
20°-30°	602.7	14.2
30°-40°	718.8	17.0
40°-50°	743.2	17.5
50°-60°	683.3	16.1
60°-70°	543.9	12.8
70°-80°	332.3	7.8
80°-90°	72.2	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°	1144.3	27.0
0°-40°	1863.1	44.0
0°-60°	3289.6	77.6
0°-90°	4238.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4238.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1480	1480	1480	1480	1480	
5°	1464	1468	1478	1484	1487	139
15°	1384	1400	1426	1446	1452	390
25°	1235	1265	1316	1352	1364	568
35°	1040	1084	1157	1217	1235	649
45°	819	877	974	1052	1078	633
55°	601	668	776	865	895	538
65°	392	459	565	644	672	388
75°	199	258	332	390	402	212
85°	46	56	58	50	46	53
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1480.4	1480.4	1480.4	1480.4	1480.4
2.5°	1472.4	1474.3	1480.4	1484.5	1484.5
5°	1464.2	1468.3	1478.4	1484.5	1486.6
7.5°	1452.4	1458.3	1472.4	1480.4	1482.7
10°	1434.2	1442.4	1460.4	1472.4	1476.3
12.5°	1412.1	1424.2	1446.2	1462.4	1466.3
15°	1384.1	1400.0	1426.0	1446.2	1452.4
17.5°	1351.7	1371.8	1404.1	1428.3	1436.2
20°	1317.4	1337.6	1377.9	1405.9	1416.0
22.5°	1277.3	1303.5	1349.7	1382.0	1390.0
25°	1235.2	1265.2	1315.5	1351.7	1363.8
27.5°	1188.7	1225.1	1279.3	1323.7	1333.8
30°	1140.4	1178.7	1241.1	1289.3	1301.4
32.5°	1090.1	1134.5	1200.8	1255.2	1271.4
35°	1039.8	1084.2	1156.6	1217.2	1235.2
37.5°	981.5	1033.8	1114.5	1176.9	1198.7
40°	931.4	981.5	1068.2	1136.5	1158.6
42.5°	874.9	929.3	1020.0	1094.2	1120.4
45°	818.7	876.9	973.5	1052.1	1078.3
47.5°	766.3	824.6	925.2	1007.9	1033.8
50°	712.1	772.4	876.9	961.4	987.6
52.5°	653.8	720.0	828.7	913.2	943.4
55°	601.4	667.7	776.3	864.9	895.2
57.5°	547.0	615.5	728.2	812.7	841.0
60°	496.9	563.2	674.1	756.3	788.6
62.5°	442.5	510.8	619.4	700.0	730.3
65°	392.1	458.6	565.2	643.8	671.8
67.5°	341.8	408.5	508.7	583.4	615.5
70°	291.5	358.2	450.4	523.1	551.1
72.5°	247.5	305.8	394.2	460.7	486.9
75°	199.3	257.6	331.8	390.1	402.2
77.5°	154.8	207.2	269.6	295.6	299.9
80°	114.5	154.8	197.2	203.1	203.1
82.5°	76.3	106.6	122.7	124.6	122.7
85°	46.2	56.2	58.3	50.3	46.2
87.5°	15.9	15.9	10.0	5.9	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)