

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: P881151

Luminaire Tested: **22CZ2-50VHE-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: P881151  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474795)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-50VHE-UNV-B50  
Description: 2X2 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RIBBED LENS

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

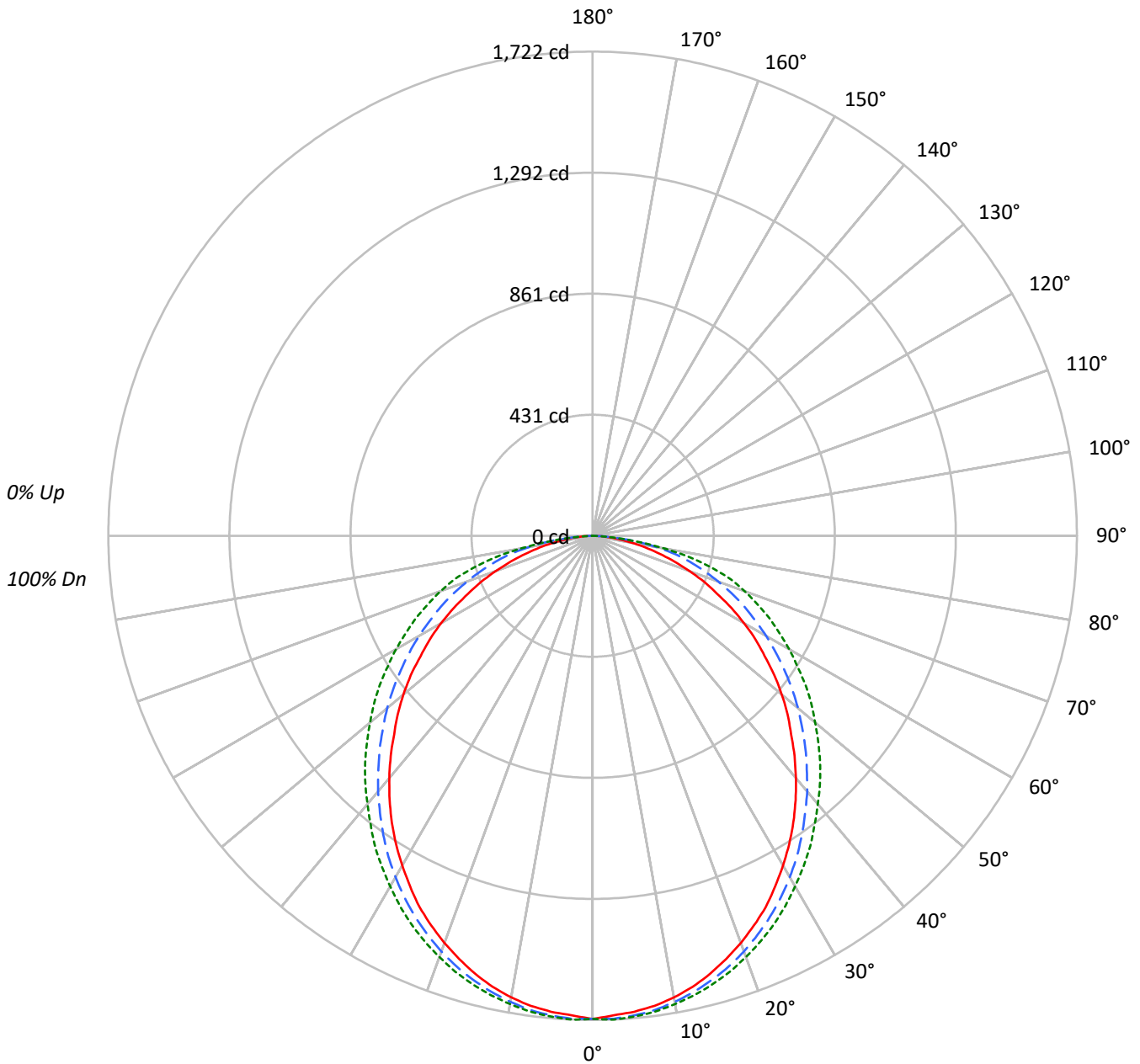
Lumens per Lamp: N/A  
Luminaire Lumens: 4738.0 lumens  
Efficiency: N/A  
Efficacy: 112.8 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.25 / 1.33  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 42  
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	77	85	79	75	81	77	73	78	75	71	69																			
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58																			
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50																			
5	76	63	54	47	73	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	36	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	29	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°	4876	4876	4876
5°	4840	4877	4889
10°	4804	4850	4873
15°	4739	4807	4850
20°	4653	4750	4814
25°	4561	4678	4775
30°	4436	4593	4718
35°	4311	4496	4673
40°	4166	4395	4614
45°	4006	4295	4592
50°	3876	4208	4557
55°	3695	4116	4567
60°	3529	4045	4580
65°	3280	3993	4653
70°	3032	3937	4768
75°	2712	3921	4798
80°	2273	3714	4188
85°	1765	2546	2380



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.3	3.4
10°-20°	460.8	9.7
20°-30°	687.1	14.5
30°-40°	811.1	17.1
40°-50°	826.7	17.4
50°-60°	745.5	15.7
60°-70°	586.0	12.4
70°-80°	366.9	7.7
80°-90°	91.5	1.9
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°	1310.3	27.7
0°-40°	2121.4	44.8
0°-60°	3693.6	78.0
0°-90°	4738.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4738.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1718	1718	1718	1718	1718	
5°	1699	1703	1712	1716	1716	161
15°	1613	1620	1636	1648	1651	454
25°	1457	1468	1494	1517	1525	670
35°	1244	1261	1298	1334	1349	778
45°	998	1020	1070	1122	1144	772
55°	747	770	832	896	923	670
65°	488	519	595	661	693	487
75°	247	284	358	422	438	263
85°	54	69	78	78	73	65
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1718.4	1718.4	1718.4	1718.4	1718.4
2.5°	1707.1	1711.3	1719.3	1722.3	1722.3
5°	1699.2	1703.2	1712.3	1716.3	1716.3
7.5°	1686.1	1690.1	1701.3	1706.2	1707.1
10°	1667.2	1672.1	1683.1	1691.3	1691.3
12.5°	1643.2	1648.1	1662.1	1672.1	1673.1
15°	1613.1	1620.1	1636.2	1648.1	1651.1
17.5°	1578.1	1589.0	1607.0	1622.2	1625.2
20°	1541.0	1551.9	1572.9	1590.0	1594.2
22.5°	1499.9	1509.9	1534.9	1556.1	1561.0
25°	1456.9	1467.9	1494.0	1516.9	1525.1
27.5°	1405.8	1418.9	1449.9	1475.8	1484.0
30°	1353.8	1369.9	1401.9	1430.8	1439.9
32.5°	1300.8	1315.7	1351.7	1382.7	1394.8
35°	1244.5	1260.6	1297.8	1333.7	1348.9
37.5°	1185.5	1201.6	1241.7	1282.6	1296.6
40°	1124.6	1143.5	1186.6	1230.5	1245.7
42.5°	1062.5	1082.3	1127.4	1176.6	1196.5
45°	998.3	1020.2	1070.4	1122.5	1144.4
47.5°	940.2	958.1	1010.4	1067.4	1088.4
50°	878.1	895.1	953.2	1010.4	1032.4
52.5°	815.1	831.2	893.3	953.2	980.3
55°	746.9	770.0	832.1	896.1	923.1
57.5°	686.9	707.9	772.1	837.0	863.1
60°	621.8	643.7	712.8	779.1	807.1
62.5°	556.7	580.7	650.7	721.9	748.1
65°	488.5	518.6	594.7	660.8	693.0
67.5°	430.6	459.6	534.7	603.8	631.8
70°	365.5	399.6	474.5	544.8	574.7
72.5°	304.4	338.4	415.5	485.7	515.6
75°	247.4	284.3	357.6	421.5	437.6
77.5°	192.3	227.3	300.4	337.5	354.5
80°	139.1	173.2	227.3	252.3	256.3
82.5°	94.1	123.2	154.3	161.3	157.3
85°	54.2	69.1	78.2	78.2	73.1
87.5°	21.9	21.9	19.1	11.9	7.0
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)