

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: P881149

Luminaire Tested: **22CZ2-50VHE-UNV-B35**

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: P881149  
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-B35  
Description: 2X2 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RIBBED LENS

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

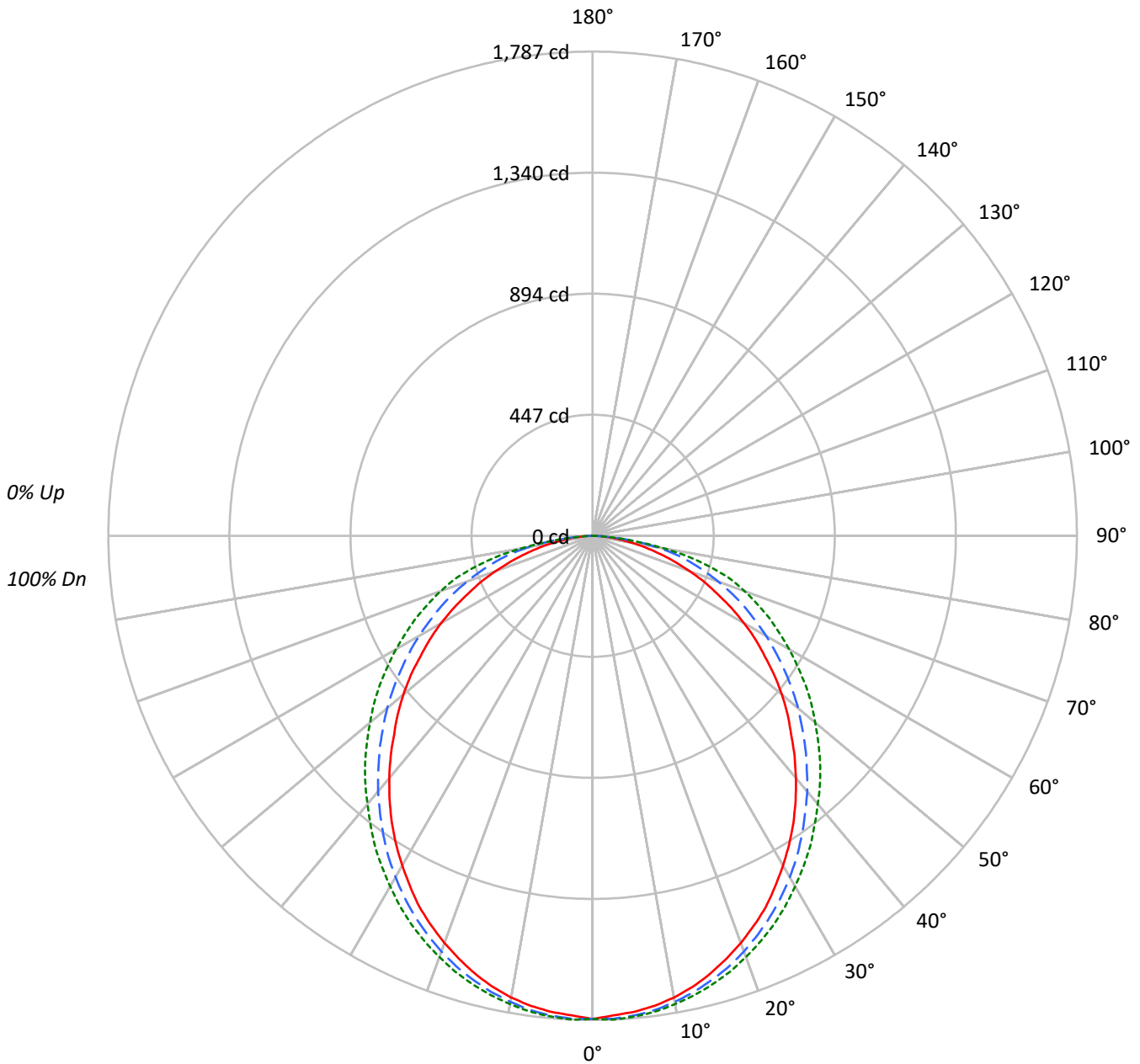
Lumens per Lamp: N/A  
Luminaire Lumens: 4917.0 lumens  
Efficiency: N/A  
Efficacy: 117.1 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.25 / 1.33  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P881149

CATALOG NUMBER: 22CZ2-50VHE-UNV-B35

### Luminous Intensity Polar Plot





TEST NUMBER: P881149

CATALOG NUMBER: 22CZ2-50VHE-UNV-B35

**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°	5060	5060	5060
5°	5023	5062	5073
10°	4985	5033	5057
15°	4918	4988	5034
20°	4829	4929	4996
25°	4734	4854	4955
30°	4603	4767	4896
35°	4474	4665	4849
40°	4323	4562	4789
45°	4157	4458	4766
50°	4023	4367	4730
55°	3834	4272	4739
60°	3662	4198	4753
65°	3404	4144	4829
70°	3147	4085	4948
75°	2815	4069	4980
80°	2360	3855	4347
85°	1830	2640	2468



TEST NUMBER: P881149

CATALOG NUMBER: 22CZ2-50VHE-UNV-B35

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.5	3.4
10°-20°	478.2	9.7
20°-30°	713.1	14.5
30°-40°	841.8	17.1
40°-50°	857.9	17.4
50°-60°	773.7	15.7
60°-70°	608.1	12.4
70°-80°	380.8	7.7
80°-90°	95.0	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°	1359.8	27.7
0°-40°	2201.6	44.8
0°-60°	3833.2	78.0
0°-90°	4917.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4917.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1783	1783	1783	1783	1783	
5°	1763	1768	1777	1781	1781	167
15°	1674	1681	1698	1710	1714	472
25°	1512	1523	1550	1574	1583	695
35°	1292	1308	1347	1384	1400	807
45°	1036	1059	1111	1165	1188	801
55°	775	799	864	930	958	696
65°	507	538	617	686	719	506
75°	257	295	371	438	454	273
85°	56	72	81	81	76	68
90°	0	0	0	0	0	



TEST NUMBER: P881149

CATALOG NUMBER: 22CZ2-50VHE-UNV-B35

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1783.3	1783.3	1783.3	1783.3	1783.3
2.5°	1771.6	1776.0	1784.2	1787.4	1787.4
5°	1763.4	1767.5	1777.0	1781.1	1781.1
7.5°	1749.8	1754.0	1765.6	1770.7	1771.6
10°	1730.2	1735.3	1746.7	1755.2	1755.2
12.5°	1705.3	1710.4	1724.9	1735.3	1736.3
15°	1674.0	1681.3	1698.0	1710.4	1713.5
17.5°	1637.7	1649.1	1667.7	1683.5	1686.6
20°	1599.2	1610.6	1632.4	1650.0	1654.4
22.5°	1556.5	1567.0	1592.9	1614.9	1620.0
25°	1512.0	1523.4	1550.5	1574.2	1582.7
27.5°	1458.9	1472.5	1504.7	1531.6	1540.1
30°	1404.9	1421.6	1454.8	1484.8	1494.3
32.5°	1349.9	1365.4	1402.7	1434.9	1447.5
35°	1291.6	1308.3	1346.8	1384.1	1399.8
37.5°	1230.3	1247.0	1288.6	1331.0	1345.6
40°	1167.0	1186.7	1231.5	1277.0	1292.8
42.5°	1102.6	1123.2	1170.0	1221.1	1241.7
45°	1036.0	1058.8	1110.9	1164.9	1187.6
47.5°	975.7	994.3	1048.6	1107.7	1129.5
50°	911.3	928.9	989.3	1048.6	1071.4
52.5°	845.9	862.6	927.0	989.3	1017.4
55°	775.1	799.1	863.5	929.9	958.0
57.5°	712.9	734.7	801.3	868.6	895.8
60°	645.3	668.1	739.8	808.6	837.6
62.5°	577.7	602.7	675.3	749.2	776.3
65°	507.0	538.2	617.2	685.7	719.2
67.5°	446.9	476.9	554.9	626.6	655.7
70°	379.3	414.7	492.4	565.4	596.4
72.5°	315.9	351.2	431.2	504.1	535.1
75°	256.8	295.0	371.1	437.5	454.2
77.5°	199.6	235.9	311.7	350.3	367.9
80°	144.4	179.7	235.9	261.8	266.0
82.5°	97.6	127.9	160.1	167.4	163.3
85°	56.2	71.7	81.1	81.1	75.8
87.5°	22.8	22.8	19.9	12.4	7.3
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)