

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: P880790

Luminaire Tested: **22CZ2-50VHE-S-B2750-W2D-4000K**

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: P880790  
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: 22CZ2-50VHE-S-B2750-W2D-4000K  
Description: 2X2 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SMOOTH LENS

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

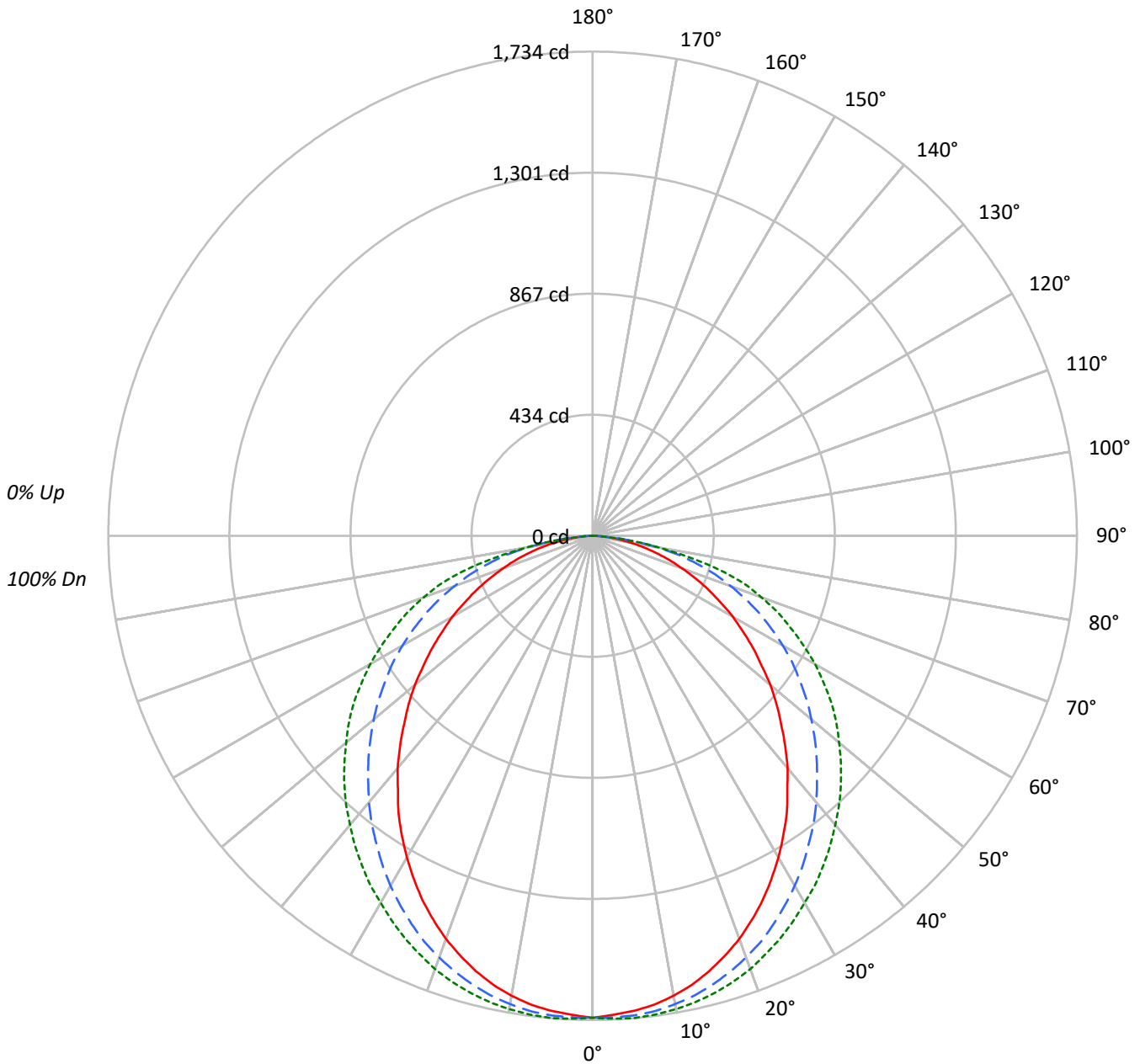
Lumens per Lamp: N/A  
Luminaire Lumens: 4942.0 lumens  
Efficiency: N/A  
Efficacy: 117.7 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	4898	4898	4898
5°	4864	4910	4938
10°	4819	4907	4960
15°	4741	4885	4975
20°	4639	4852	4986
25°	4509	4803	4979
30°	4357	4742	4972
35°	4200	4672	4989
40°	4023	4614	5005
45°	3831	4555	5046
50°	3666	4514	5084
55°	3469	4479	5164
60°	3288	4461	5219
65°	3070	4425	5260
70°	2820	4358	5331
75°	2548	4242	5142
80°	2183	3758	3871
85°	1755	2214	1755



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.7	3.3
10°-20°	467.9	9.5
20°-30°	702.8	14.2
30°-40°	838.2	17.0
40°-50°	866.6	17.5
50°-60°	796.7	16.1
60°-70°	634.3	12.8
70°-80°	387.5	7.8
80°-90°	84.2	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°	1334.4	27.0
0°-40°	2172.6	44.0
0°-60°	3836.0	77.6
0°-90°	4942.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4942.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1726	1726	1726	1726	1726	
5°	1708	1712	1724	1731	1734	162
15°	1614	1633	1663	1686	1694	454
25°	1440	1475	1534	1576	1590	662
35°	1212	1264	1349	1419	1440	756
45°	955	1023	1135	1227	1257	738
55°	701	779	905	1008	1044	627
65°	457	535	659	751	783	453
75°	232	300	387	455	469	247
85°	54	66	68	59	54	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1726.3	1726.3	1726.3	1726.3	1726.3
2.5°	1717.0	1719.2	1726.3	1731.1	1731.1
5°	1707.5	1712.3	1723.9	1731.1	1733.5
7.5°	1693.7	1700.6	1717.0	1726.3	1729.0
10°	1672.4	1682.0	1703.0	1717.0	1721.5
12.5°	1646.7	1660.7	1686.5	1705.3	1709.9
15°	1614.0	1632.6	1662.9	1686.5	1693.7
17.5°	1576.3	1599.7	1637.4	1665.5	1674.8
20°	1536.2	1559.8	1606.8	1639.5	1651.2
22.5°	1489.5	1520.0	1573.9	1611.6	1620.9
25°	1440.3	1475.4	1534.1	1576.3	1590.4
27.5°	1386.2	1428.6	1491.8	1543.6	1555.3
30°	1329.9	1374.5	1447.2	1503.5	1517.6
32.5°	1271.2	1323.0	1400.2	1463.7	1482.6
35°	1212.5	1264.3	1348.7	1419.4	1440.3
37.5°	1144.5	1205.6	1299.6	1372.3	1397.8
40°	1086.1	1144.5	1245.7	1325.3	1351.1
42.5°	1020.2	1083.7	1189.4	1276.0	1306.5
45°	954.6	1022.6	1135.2	1226.8	1257.4
47.5°	893.6	961.5	1078.9	1175.3	1205.6
50°	830.4	900.7	1022.6	1121.1	1151.7
52.5°	762.4	839.7	966.3	1064.8	1100.2
55°	701.3	778.6	905.3	1008.5	1043.9
57.5°	637.8	717.8	849.2	947.7	980.7
60°	579.4	656.7	786.0	881.9	919.6
62.5°	516.0	595.6	722.3	816.3	851.6
65°	457.3	534.8	659.1	750.7	783.4
67.5°	398.6	476.4	593.2	680.3	717.8
70°	339.9	417.7	525.3	610.0	642.6
72.5°	288.7	356.6	459.7	537.2	567.7
75°	232.4	300.3	386.9	454.9	469.0
77.5°	180.6	241.6	314.4	344.7	349.7
80°	133.6	180.6	230.0	236.9	236.9
82.5°	89.0	124.3	143.1	145.3	143.1
85°	53.9	65.6	68.0	58.7	53.9
87.5°	18.6	18.6	11.7	6.9	2.4
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)