

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: P880787

Luminaire Tested: **22CZ2-50VHE-S-B2750-W2D-2700K**

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: P880787  
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-2700K  
Description: 2X2 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SMOOTH LENS

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

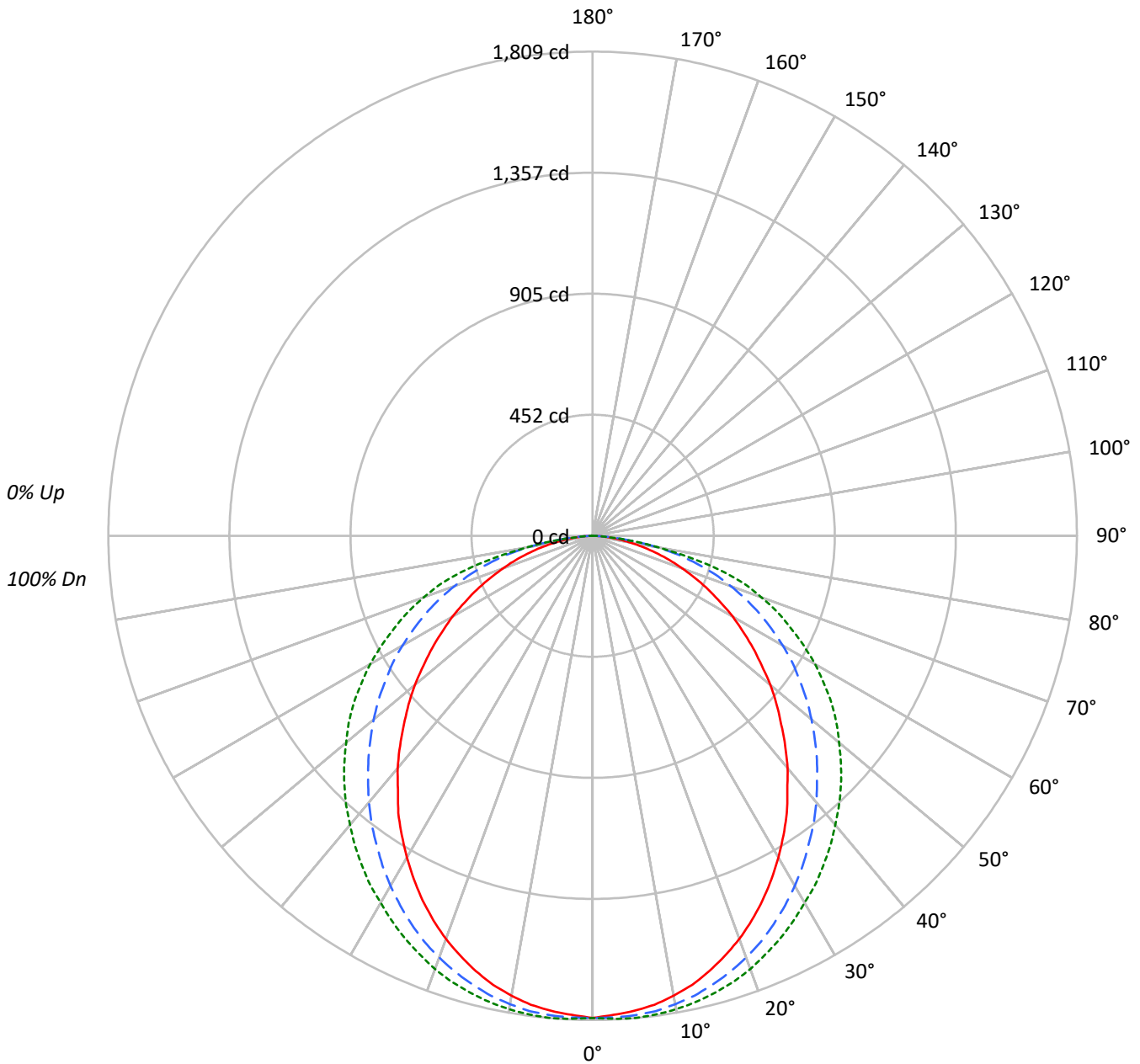
Lumens per Lamp: N/A  
Luminaire Lumens: 5157.0 lumens  
Efficiency: N/A  
Efficacy: 122.8 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P880787

CATALOG NUMBER: 22CZ2-50VHE-S-B2750-W2D-2700K

### 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°	5112	5112	5112
5°	5075	5124	5152
10°	5028	5120	5176
15°	4948	5097	5192
20°	4840	5063	5203
25°	4706	5012	5196
30°	4547	4948	5189
35°	4383	4875	5206
40°	4198	4815	5222
45°	3998	4754	5265
50°	3825	4711	5305
55°	3620	4673	5389
60°	3431	4655	5446
65°	3204	4618	5488
70°	2943	4547	5564
75°	2659	4426	5365
80°	2278	3922	4039
85°	1833	2308	1833



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.8	3.3
10°-20°	488.3	9.5
20°-30°	733.4	14.2
30°-40°	874.7	17.0
40°-50°	904.3	17.5
50°-60°	831.4	16.1
60°-70°	661.9	12.8
70°-80°	404.4	7.8
80°-90°	87.8	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°	1392.5	27.0
0°-40°	2267.2	44.0
0°-60°	4002.9	77.6
0°-90°	5157.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5157.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1801	1801	1801	1801	1801	
5°	1782	1787	1799	1806	1809	169
15°	1684	1704	1735	1760	1767	474
25°	1503	1540	1601	1645	1660	691
35°	1265	1319	1407	1481	1503	789
45°	996	1067	1185	1280	1312	770
55°	732	812	945	1052	1089	655
65°	477	558	688	783	817	473
75°	242	313	404	475	489	258
85°	56	68	71	61	56	65
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1801.4	1801.4	1801.4	1801.4	1801.4
2.5°	1791.7	1793.9	1801.4	1806.4	1806.4
5°	1781.8	1786.7	1798.9	1806.4	1808.9
7.5°	1767.3	1774.5	1791.7	1801.4	1804.2
10°	1745.2	1755.2	1777.0	1791.7	1796.4
12.5°	1718.3	1733.0	1759.9	1779.5	1784.2
15°	1684.2	1703.6	1735.2	1759.9	1767.3
17.5°	1644.9	1669.3	1708.6	1738.0	1747.7
20°	1603.0	1627.7	1676.7	1710.8	1723.0
22.5°	1554.3	1586.1	1642.4	1681.7	1691.4
25°	1503.0	1539.6	1600.8	1644.9	1659.6
27.5°	1446.5	1490.8	1556.7	1610.8	1623.0
30°	1387.7	1434.3	1510.2	1568.9	1583.6
32.5°	1326.5	1380.5	1461.1	1527.4	1547.0
35°	1265.2	1319.3	1407.4	1481.1	1503.0
37.5°	1194.3	1258.0	1356.1	1432.1	1458.7
40°	1133.3	1194.3	1299.9	1383.0	1409.9
42.5°	1064.6	1130.8	1241.1	1331.5	1363.3
45°	996.2	1067.1	1184.6	1280.2	1312.1
47.5°	932.4	1003.4	1125.9	1226.4	1258.0
50°	866.5	939.9	1067.1	1169.9	1201.8
52.5°	795.6	876.2	1008.4	1111.2	1148.0
55°	731.8	812.5	944.6	1052.4	1089.3
57.5°	665.6	749.0	886.2	989.0	1023.3
60°	604.6	685.3	820.2	920.2	959.6
62.5°	538.4	621.5	753.7	851.8	888.7
65°	477.2	558.1	687.8	783.4	817.4
67.5°	415.9	497.1	619.0	709.9	749.0
70°	354.7	435.9	548.1	636.5	670.6
72.5°	301.2	372.1	479.7	560.6	592.4
75°	242.5	313.4	403.7	474.7	489.4
77.5°	188.4	252.2	328.1	359.7	364.9
80°	139.4	188.4	240.0	247.2	247.2
82.5°	92.8	129.7	149.4	151.6	149.4
85°	56.3	68.4	70.9	61.2	56.3
87.5°	19.4	19.4	12.2	7.2	2.5
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)