

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: P880792

Luminaire Tested: **22CZ2-50VHE-SQR-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: P880792  
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-SQR-B2750-W2D-2700K  
Description: 2X2 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

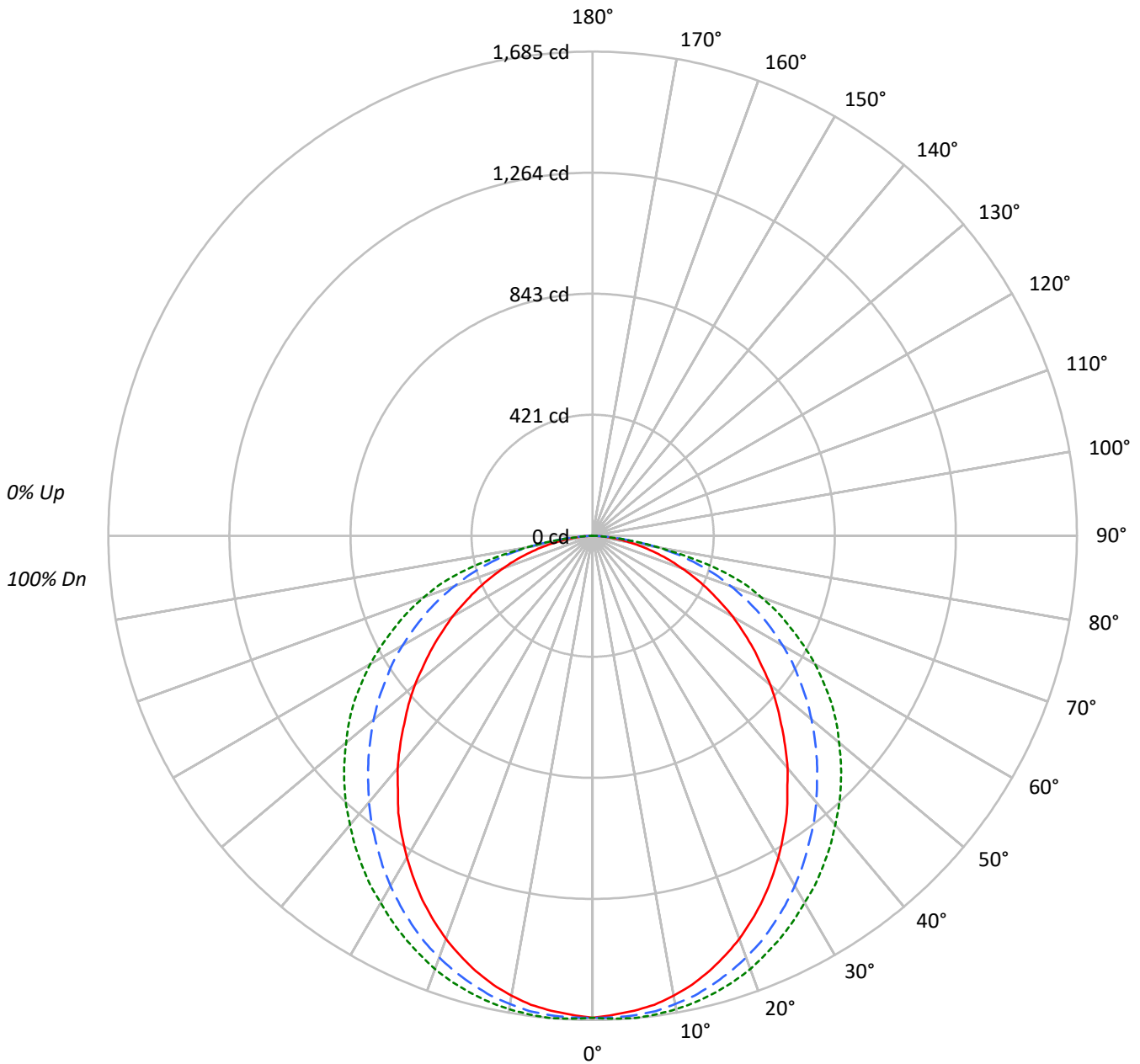
Lumens per Lamp: N/A  
Luminaire Lumens: 4803.0 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

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					20					
RC	80					70					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°	4761	4761	4761
5°	4727	4772	4799
10°	4683	4769	4821
15°	4608	4748	4835
20°	4508	4715	4846
25°	4383	4668	4839
30°	4235	4608	4833
35°	4082	4541	4849
40°	3910	4484	4864
45°	3723	4427	4904
50°	3562	4387	4941
55°	3372	4352	5019
60°	3196	4335	5072
65°	2984	4301	5112
70°	2740	4235	5182
75°	2476	4122	4997
80°	2121	3652	3762
85°	1706	2152	1706



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.1	3.3
10°-20°	454.8	9.5
20°-30°	683.1	14.2
30°-40°	814.6	17.0
40°-50°	842.2	17.5
50°-60°	774.3	16.1
60°-70°	616.5	12.8
70°-80°	376.6	7.8
80°-90°	81.8	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°	1296.9	27.0
0°-40°	2111.5	44.0
0°-60°	3728.1	77.6
0°-90°	4803.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4803.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1678	1678	1678	1678	1678	
5°	1659	1664	1675	1682	1685	157
15°	1569	1587	1616	1639	1646	442
25°	1400	1434	1491	1532	1546	644
35°	1178	1229	1311	1379	1400	735
45°	928	994	1103	1192	1222	717
55°	682	757	880	980	1014	610
65°	444	520	641	730	761	440
75°	226	292	376	442	456	240
85°	52	64	66	57	52	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1677.8	1677.8	1677.8	1677.8	1677.8
2.5°	1668.7	1670.8	1677.8	1682.4	1682.4
5°	1659.4	1664.1	1675.4	1682.4	1684.7
7.5°	1646.0	1652.7	1668.7	1677.8	1680.4
10°	1625.4	1634.7	1655.1	1668.7	1673.1
12.5°	1600.3	1614.0	1639.1	1657.4	1661.8
15°	1568.6	1586.7	1616.1	1639.1	1646.0
17.5°	1532.0	1554.7	1591.3	1618.7	1627.7
20°	1493.0	1516.0	1561.6	1593.4	1604.7
22.5°	1447.6	1477.2	1529.6	1566.3	1575.3
25°	1399.8	1433.9	1490.9	1532.0	1545.6
27.5°	1347.2	1388.5	1449.9	1500.2	1511.6
30°	1292.5	1335.8	1406.5	1461.2	1474.9
32.5°	1235.4	1285.7	1360.8	1422.5	1440.9
35°	1178.4	1228.7	1310.8	1379.4	1399.8
37.5°	1112.3	1171.7	1263.0	1333.8	1358.5
40°	1055.5	1112.3	1210.6	1288.1	1313.1
42.5°	991.5	1053.2	1155.9	1240.1	1269.7
45°	927.8	993.9	1103.3	1192.3	1222.0
47.5°	868.4	934.5	1048.6	1142.3	1171.7
50°	807.0	875.4	993.9	1089.6	1119.3
52.5°	740.9	816.0	939.1	1034.9	1069.2
55°	681.6	756.7	879.8	980.2	1014.5
57.5°	619.9	697.6	825.3	921.1	953.1
60°	563.1	638.2	763.9	857.1	893.7
62.5°	501.4	578.9	702.0	793.3	827.7
65°	444.4	519.8	640.6	729.6	761.3
67.5°	387.4	463.0	576.5	661.2	697.6
70°	330.3	406.0	510.5	592.8	624.6
72.5°	280.5	346.6	446.7	522.1	551.8
75°	225.8	291.9	376.0	442.1	455.8
77.5°	175.5	234.9	305.6	335.0	339.9
80°	129.8	175.5	223.5	230.2	230.2
82.5°	86.5	120.8	139.1	141.2	139.1
85°	52.4	63.7	66.1	57.0	52.4
87.5°	18.1	18.1	11.4	6.7	2.3
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)