

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: P732286

Luminaire Tested: **24CZ2-50-B2750-W2D-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732286  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272125)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-50-B2750-W2D-2700K  
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND RIBBED LENS  
  
Light Source: -  
Ballast/Driver: -

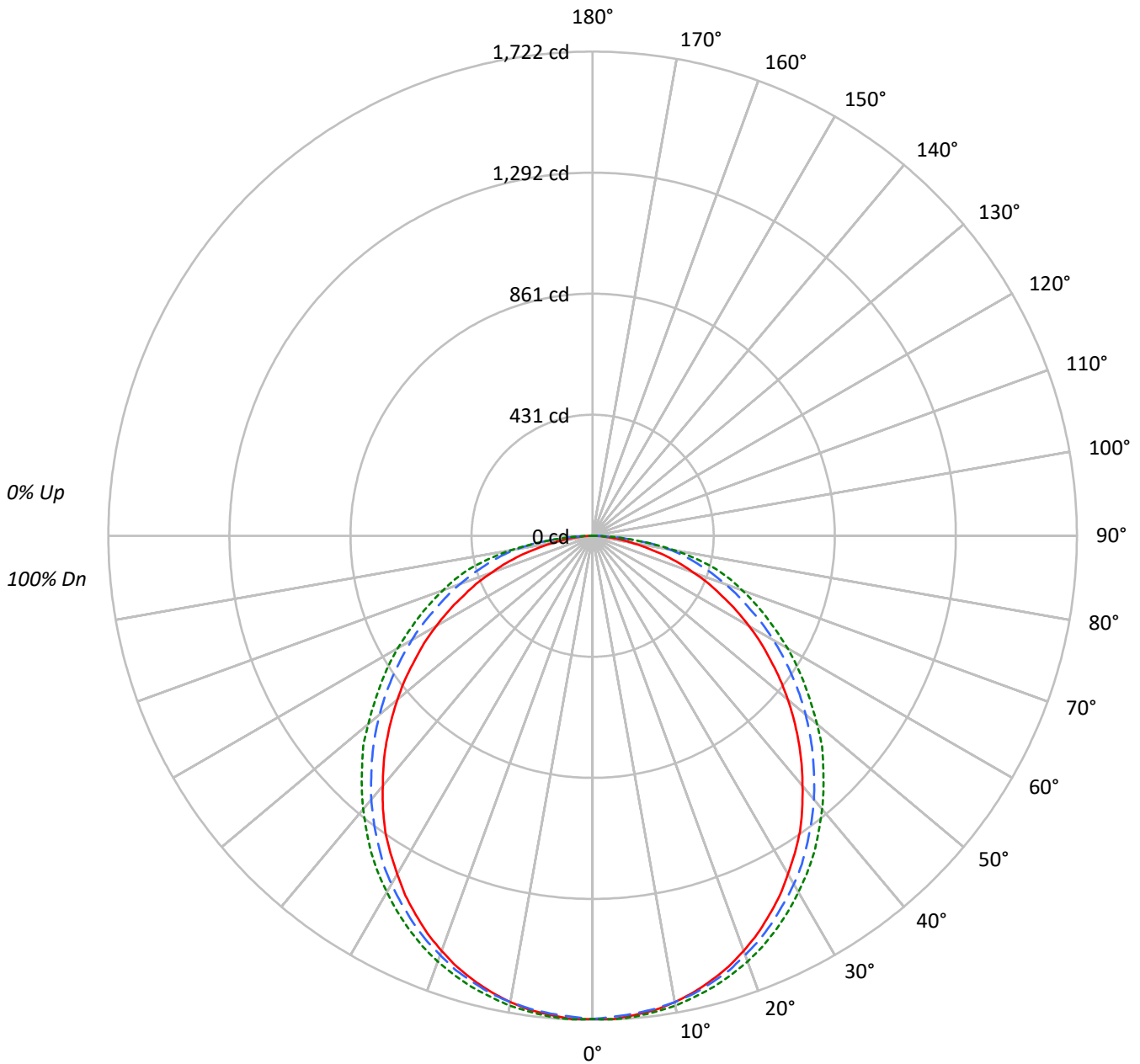
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4892.0 lumens  
Efficiency: N/A  
Efficacy: 122.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 40  
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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83																			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69																			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	70	56	47	40	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°	2426	2426	2426
5°	2424	2417	2433
10°	2414	2414	2432
15°	2391	2402	2427
20°	2360	2383	2420
25°	2316	2359	2405
30°	2264	2332	2385
35°	2214	2294	2367
40°	2139	2256	2339
45°	2069	2211	2314
50°	1989	2170	2286
55°	1900	2130	2264
60°	1812	2096	2259
65°	1697	2060	2273
70°	1571	2071	2334
75°	1407	2110	2465
80°	1137	2235	2411
85°	855	1961	1912



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.7	3.3
10°-20°	464.9	9.5
20°-30°	698.8	14.3
30°-40°	832.4	17.0
40°-50°	851.9	17.4
50°-60°	767.0	15.7
60°-70°	602.4	12.3
70°-80°	390.9	8.0
80°-90°	120.9	2.5
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°	1326.4	27.1
0°-40°	2158.8	44.1
0°-60°	3777.8	77.2
0°-90°	4892.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4892.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1719	1719	1719	1719	1719	
5°	1711	1714	1706	1716	1717	163
15°	1636	1641	1644	1658	1661	461
25°	1487	1499	1515	1540	1545	685
35°	1285	1301	1332	1364	1374	802
45°	1036	1061	1108	1150	1159	799
55°	772	806	866	911	920	692
65°	508	547	617	668	680	506
75°	258	308	387	440	452	273
85°	53	98	121	118	118	64
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1718.7	1718.7	1718.7	1718.7	1718.7
2.5°	1720.2	1720.2	1712.3	1720.2	1721.7
5°	1710.8	1714.0	1706.1	1715.5	1717.0
7.5°	1701.4	1701.4	1696.8	1706.1	1707.8
10°	1684.4	1685.9	1684.4	1695.3	1696.8
12.5°	1662.7	1665.7	1667.4	1678.2	1679.7
15°	1636.3	1641.0	1644.0	1658.0	1661.2
17.5°	1606.7	1611.4	1619.1	1634.6	1637.8
20°	1571.0	1577.1	1586.5	1606.7	1611.4
22.5°	1532.2	1538.4	1553.9	1572.5	1580.3
25°	1487.1	1499.4	1515.0	1539.9	1544.6
27.5°	1442.0	1452.8	1473.0	1499.4	1505.8
30°	1389.2	1406.2	1431.1	1457.5	1463.7
32.5°	1337.9	1354.9	1384.5	1412.6	1420.2
35°	1285.1	1300.6	1331.7	1364.3	1373.6
37.5°	1224.4	1244.6	1278.9	1311.5	1320.8
40°	1160.8	1185.7	1224.4	1258.7	1269.5
42.5°	1100.1	1126.5	1165.4	1202.7	1215.1
45°	1036.4	1061.3	1108.0	1149.9	1159.3
47.5°	971.1	999.2	1048.8	1090.7	1106.3
50°	906.0	935.5	988.3	1031.8	1041.1
52.5°	840.6	871.7	927.7	974.3	979.0
55°	772.3	806.5	865.5	910.6	920.0
57.5°	710.1	739.7	803.4	850.0	860.8
60°	641.8	674.4	742.7	786.3	800.2
62.5°	576.4	610.7	682.2	725.7	738.0
65°	508.1	547.1	616.9	668.2	680.5
67.5°	449.1	486.4	560.9	610.7	623.1
70°	380.6	422.7	501.9	553.2	565.6
72.5°	321.6	365.1	444.5	494.1	512.8
75°	258.0	307.6	387.0	439.8	452.1
77.5°	195.8	253.3	334.0	374.4	374.4
80°	139.9	200.5	275.0	293.7	296.7
82.5°	91.7	150.7	203.5	202.0	202.0
85°	52.8	97.9	121.1	118.1	118.1
87.5°	20.2	40.4	43.4	43.4	41.9
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)