

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: P732312

Luminaire Tested: **24CZ2-50HE-B2750-W2D-3000K**

Issue Date: 1/5/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P732312  
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: 24CZ2-50HE-B2750-W2D-3000K  
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RIBBED LENS

Light Source: -  
Ballast/Driver: -

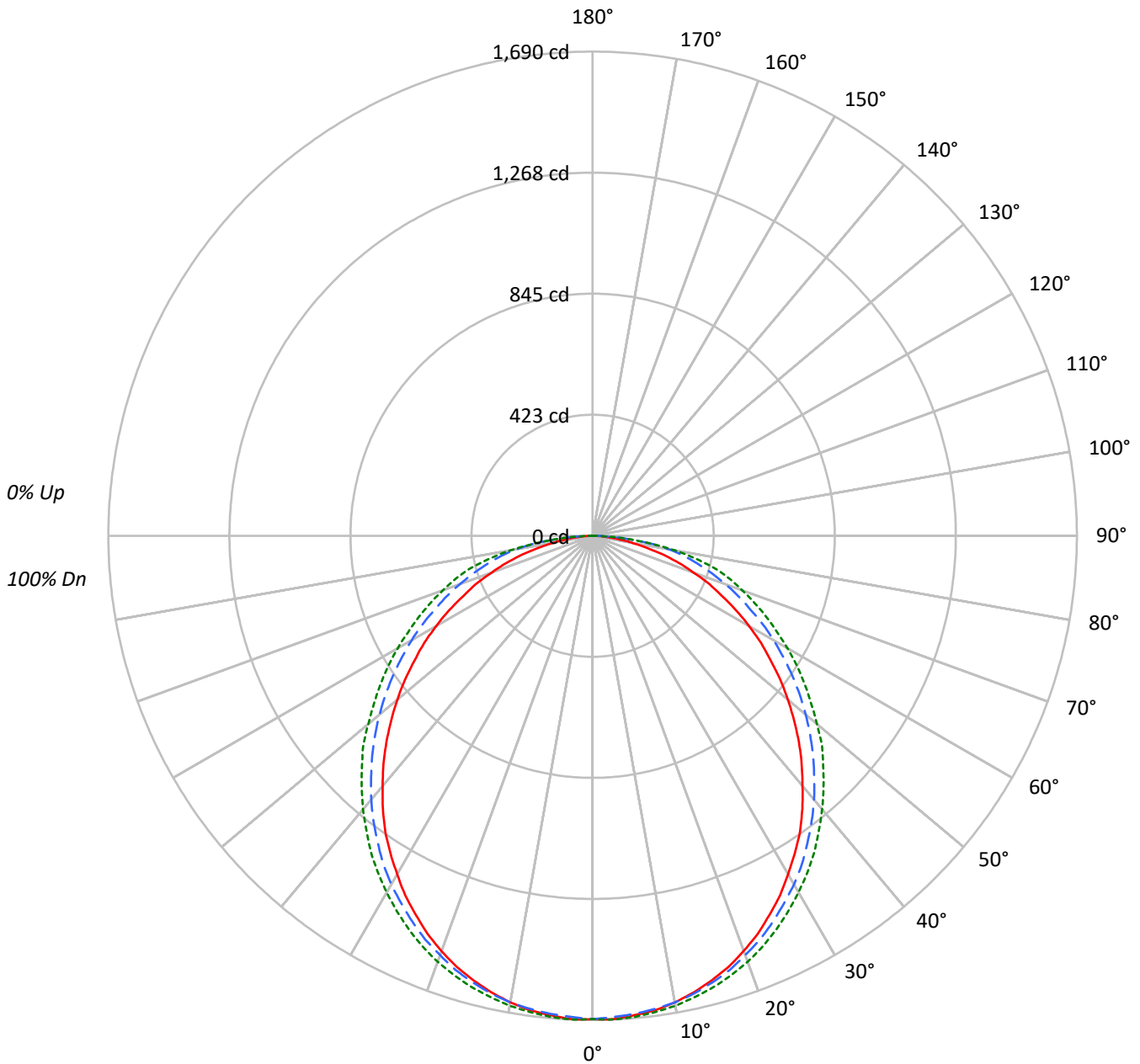
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4803.0 lumens  
Efficiency: N/A  
Efficacy: 129.8 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): 37  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	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°	2381	2381	2381
5°	2380	2373	2388
10°	2370	2370	2387
15°	2347	2358	2383
20°	2317	2339	2376
25°	2274	2316	2362
30°	2223	2290	2342
35°	2174	2253	2324
40°	2100	2215	2296
45°	2031	2171	2272
50°	1953	2130	2244
55°	1866	2091	2223
60°	1779	2058	2217
65°	1666	2023	2231
70°	1542	2034	2291
75°	1381	2072	2421
80°	1116	2194	2368
85°	839	1925	1878



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.7	3.3
10°-20°	456.4	9.5
20°-30°	686.1	14.3
30°-40°	817.3	17.0
40°-50°	836.4	17.4
50°-60°	753.1	15.7
60°-70°	591.4	12.3
70°-80°	383.8	8.0
80°-90°	118.7	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°	1302.3	27.1
0°-40°	2119.6	44.1
0°-60°	3709.1	77.2
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°	1687	1687	1687	1687	1687	
5°	1680	1683	1675	1684	1686	160
15°	1606	1611	1614	1628	1631	453
25°	1460	1472	1487	1512	1516	673
35°	1262	1277	1308	1339	1349	787
45°	1018	1042	1088	1129	1138	785
55°	758	792	850	894	903	680
65°	499	537	606	656	668	497
75°	253	302	380	432	444	268
85°	52	96	119	116	116	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1687.4	1687.4	1687.4	1687.4	1687.4
2.5°	1688.9	1688.9	1681.2	1688.9	1690.3
5°	1679.7	1682.8	1675.1	1684.3	1685.7
7.5°	1670.5	1670.5	1665.9	1675.1	1676.7
10°	1653.8	1655.2	1653.8	1664.4	1665.9
12.5°	1632.4	1635.4	1637.0	1647.7	1649.2
15°	1606.5	1611.1	1614.1	1627.8	1631.0
17.5°	1577.5	1582.1	1589.6	1604.9	1608.0
20°	1542.4	1548.4	1557.6	1577.5	1582.1
22.5°	1504.3	1510.4	1525.6	1543.8	1551.6
25°	1460.0	1472.2	1487.4	1511.9	1516.5
27.5°	1415.7	1426.4	1446.2	1472.2	1478.4
30°	1363.9	1380.6	1405.1	1431.0	1437.1
32.5°	1313.5	1330.3	1359.3	1386.9	1394.4
35°	1261.7	1276.9	1307.5	1339.4	1348.6
37.5°	1202.1	1222.0	1255.6	1287.6	1296.8
40°	1139.6	1164.1	1202.1	1235.8	1246.4
42.5°	1080.1	1106.0	1144.2	1180.8	1192.9
45°	1017.6	1042.0	1087.8	1129.0	1138.2
47.5°	953.4	981.0	1029.7	1070.9	1086.2
50°	889.5	918.5	970.3	1013.0	1022.2
52.5°	825.3	855.8	910.8	956.6	961.2
55°	758.2	791.9	849.8	894.1	903.3
57.5°	697.2	726.2	788.7	834.5	845.2
60°	630.1	662.1	729.2	772.0	785.6
62.5°	566.0	599.6	669.8	712.5	724.6
65°	498.9	537.1	605.7	656.0	668.2
67.5°	441.0	477.5	550.7	599.6	611.7
70°	373.7	415.0	492.8	543.2	555.3
72.5°	315.8	358.4	436.4	485.1	503.5
75°	253.3	302.0	379.9	431.8	443.9
77.5°	192.3	248.7	327.9	367.6	367.6
80°	137.3	196.9	270.0	288.4	291.3
82.5°	90.1	148.0	199.8	198.3	198.3
85°	51.8	96.1	118.9	116.0	116.0
87.5°	19.9	39.7	42.6	42.6	41.2
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)