

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: P732326

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732326  
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-S-B2750-W2D-2700K  
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

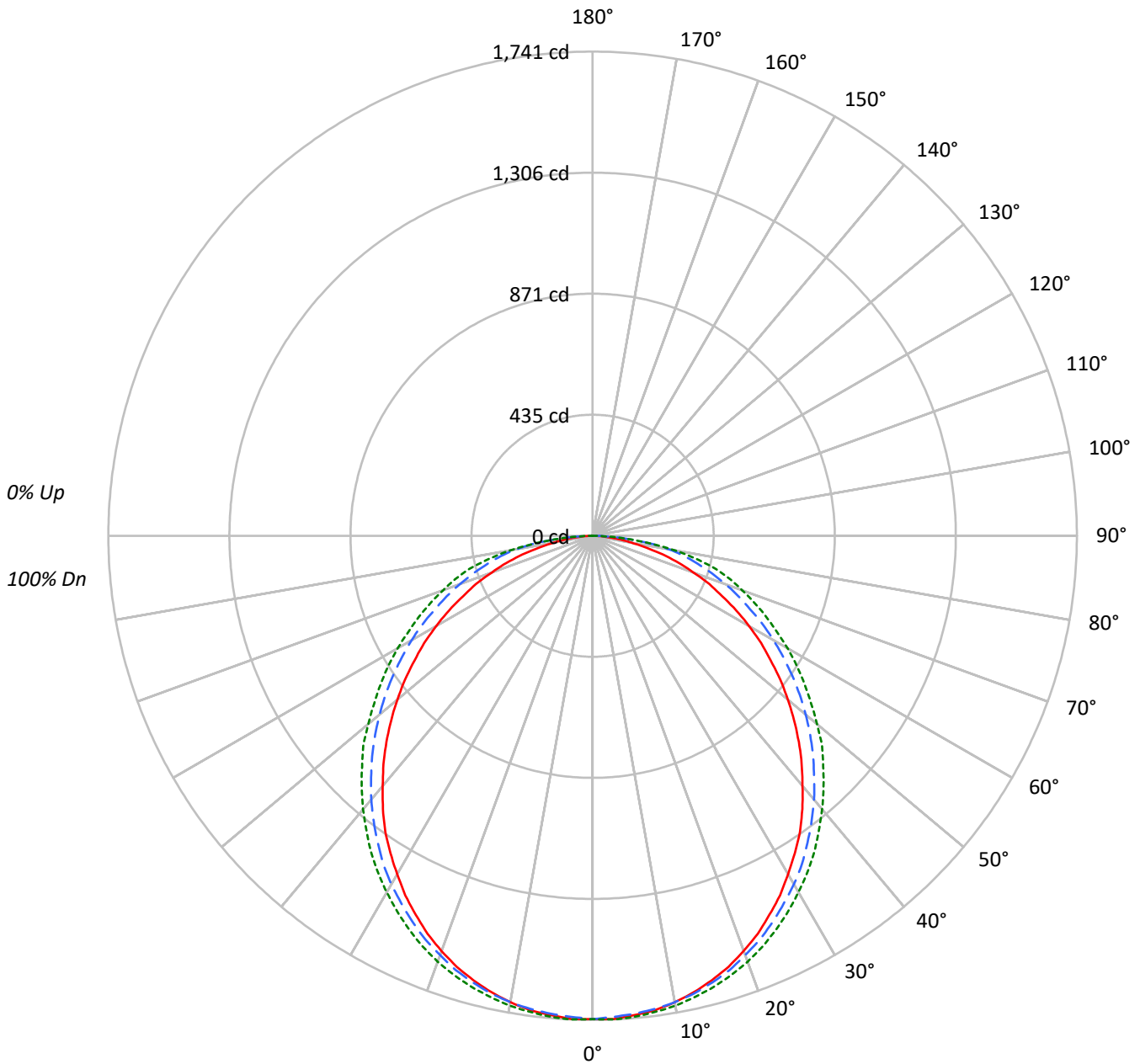
Lumens per Lamp: N/A  
Luminaire Lumens: 4947.0 lumens  
Efficiency: N/A  
Efficacy: 133.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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									
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°	2453	2453	2453
5°	2451	2444	2460
10°	2441	2441	2459
15°	2418	2429	2455
20°	2386	2410	2447
25°	2342	2386	2432
30°	2289	2358	2412
35°	2239	2320	2393
40°	2163	2281	2365
45°	2092	2236	2340
50°	2011	2194	2312
55°	1922	2154	2289
60°	1832	2120	2284
65°	1716	2083	2298
70°	1588	2095	2360
75°	1423	2134	2493
80°	1149	2260	2439
85°	865	1984	1935



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.5	3.3
10°-20°	470.1	9.5
20°-30°	706.7	14.3
30°-40°	841.8	17.0
40°-50°	861.5	17.4
50°-60°	775.6	15.7
60°-70°	609.1	12.3
70°-80°	395.3	8.0
80°-90°	122.3	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°	1341.3	27.1
0°-40°	2183.1	44.1
0°-60°	3820.3	77.2
0°-90°	4947.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4947.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1738	1738	1738	1738	1738	
5°	1730	1733	1725	1735	1736	164
15°	1655	1659	1662	1677	1680	467
25°	1504	1516	1532	1557	1562	693
35°	1300	1315	1347	1380	1389	811
45°	1048	1073	1120	1163	1172	808
55°	781	816	875	921	930	700
65°	514	553	624	676	688	511
75°	261	311	391	445	457	276
85°	53	99	122	120	120	65
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1738.0	1738.0	1738.0	1738.0	1738.0
2.5°	1739.5	1739.5	1731.6	1739.5	1741.0
5°	1730.0	1733.3	1725.3	1734.8	1736.3
7.5°	1720.6	1720.6	1715.8	1725.3	1727.0
10°	1703.3	1704.9	1703.3	1714.3	1715.8
12.5°	1681.4	1684.4	1686.1	1697.1	1698.6
15°	1654.7	1659.4	1662.5	1676.7	1679.9
17.5°	1624.8	1629.5	1637.3	1653.0	1656.2
20°	1588.6	1594.9	1604.3	1624.8	1629.5
22.5°	1549.4	1555.7	1571.4	1590.1	1598.1
25°	1503.8	1516.3	1532.0	1557.2	1561.9
27.5°	1458.2	1469.2	1489.6	1516.3	1522.7
30°	1404.8	1422.0	1447.2	1473.9	1480.1
32.5°	1352.9	1370.1	1400.1	1428.4	1436.2
35°	1299.5	1315.2	1346.7	1379.6	1389.1
37.5°	1238.2	1258.6	1293.3	1326.2	1335.7
40°	1173.8	1199.0	1238.2	1272.8	1283.8
42.5°	1112.5	1139.2	1178.5	1216.2	1228.7
45°	1048.1	1073.3	1120.4	1162.8	1172.3
47.5°	982.0	1010.4	1060.6	1103.0	1118.7
50°	916.1	946.1	999.4	1043.4	1052.8
52.5°	850.1	881.5	938.1	985.2	990.0
55°	781.0	815.6	875.2	920.9	930.3
57.5°	718.1	748.0	812.4	859.5	870.5
60°	649.0	681.9	751.0	795.2	809.2
62.5°	582.9	617.6	689.9	733.8	746.3
65°	513.8	553.2	623.8	675.7	688.2
67.5°	454.2	491.9	567.2	617.6	630.1
70°	384.9	427.5	507.6	559.5	571.9
72.5°	325.3	369.2	449.5	499.6	518.6
75°	260.9	311.1	391.3	444.7	457.2
77.5°	198.0	256.2	337.8	378.6	378.6
80°	141.4	202.8	278.1	297.0	300.1
82.5°	92.8	152.4	205.8	204.3	204.3
85°	53.4	99.0	122.5	119.5	119.5
87.5°	20.4	40.9	43.9	43.9	42.4
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)