

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: P732301

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732301  
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-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**

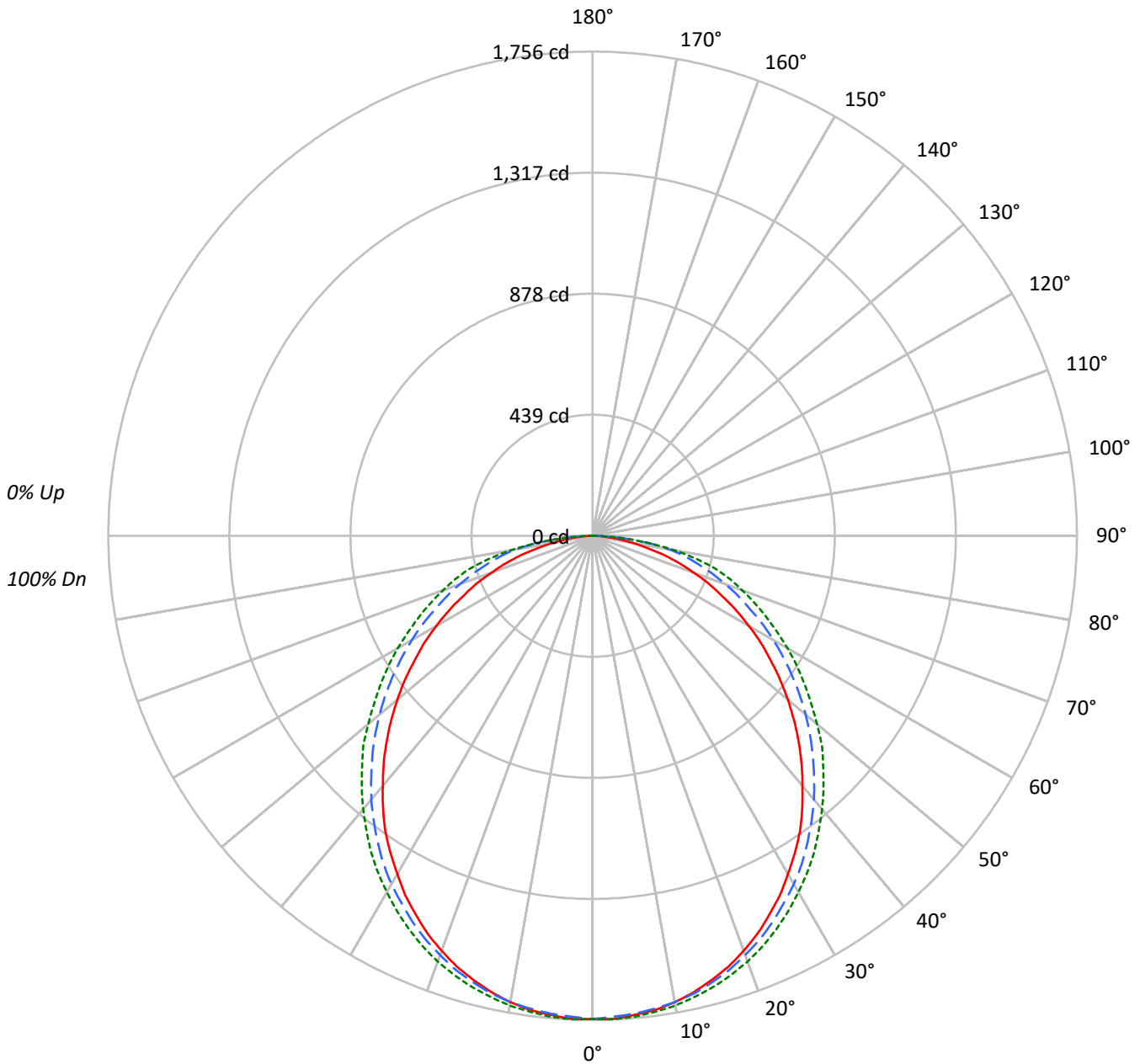
Lumens per Lamp: N/A  
Luminaire Lumens: 4988.0 lumens  
Efficiency: N/A  
Efficacy: 124.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 40  
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°	2473	2473	2473
5°	2471	2465	2480
10°	2461	2461	2479
15°	2438	2449	2475
20°	2406	2429	2468
25°	2361	2405	2452
30°	2308	2378	2432
35°	2258	2339	2413
40°	2180	2300	2385
45°	2109	2255	2359
50°	2028	2213	2331
55°	1937	2171	2308
60°	1847	2138	2303
65°	1730	2101	2317
70°	1601	2112	2380
75°	1435	2152	2514
80°	1159	2279	2459
85°	871	2000	1951



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.9	3.3
10°-20°	474.0	9.5
20°-30°	712.5	14.3
30°-40°	848.8	17.0
40°-50°	868.7	17.4
50°-60°	782.1	15.7
60°-70°	614.2	12.3
70°-80°	398.6	8.0
80°-90°	123.3	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°	1352.4	27.1
0°-40°	2201.2	44.1
0°-60°	3852.0	77.2
0°-90°	4988.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4988.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1752	1752	1752	1752	1752	
5°	1744	1748	1740	1749	1751	166
15°	1668	1673	1676	1690	1694	470
25°	1516	1529	1545	1570	1575	699
35°	1310	1326	1358	1391	1401	817
45°	1057	1082	1130	1172	1182	815
55°	787	822	882	928	938	706
65°	518	558	629	681	694	516
75°	263	314	395	448	461	278
85°	54	100	124	120	120	65
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1752.4	1752.4	1752.4	1752.4	1752.4
2.5°	1753.9	1753.9	1745.9	1753.9	1755.5
5°	1744.4	1747.6	1739.6	1749.2	1750.7
7.5°	1734.8	1734.8	1730.1	1739.6	1741.3
10°	1717.5	1719.0	1717.5	1728.5	1730.1
12.5°	1695.3	1698.4	1700.1	1711.2	1712.7
15°	1668.4	1673.2	1676.2	1690.5	1693.8
17.5°	1638.2	1643.0	1650.8	1666.7	1669.9
20°	1601.8	1608.1	1617.6	1638.2	1643.0
22.5°	1562.3	1568.6	1584.4	1603.3	1611.3
25°	1516.3	1528.9	1544.7	1570.1	1574.9
27.5°	1470.3	1481.3	1501.9	1528.9	1535.4
30°	1416.4	1433.8	1459.2	1486.1	1492.4
32.5°	1364.1	1381.5	1411.7	1440.3	1448.1
35°	1310.3	1326.1	1357.8	1391.0	1400.6
37.5°	1248.4	1269.1	1304.0	1337.2	1346.8
40°	1183.5	1208.9	1248.4	1283.4	1294.4
42.5°	1121.7	1148.6	1188.3	1226.3	1238.9
45°	1056.8	1082.2	1129.7	1172.5	1182.0
47.5°	990.2	1018.8	1069.4	1112.1	1128.0
50°	923.7	953.9	1007.7	1052.0	1061.6
52.5°	857.1	888.8	945.9	993.4	998.2
55°	787.4	822.4	882.5	928.5	938.0
57.5°	724.1	754.2	819.1	866.7	877.7
60°	654.4	687.6	757.3	801.8	815.9
62.5°	587.8	622.7	695.6	739.9	752.5
65°	518.1	557.8	629.0	681.3	693.9
67.5°	458.0	495.9	571.9	622.7	635.3
70°	388.1	431.0	511.8	564.1	576.7
72.5°	328.0	372.2	453.2	503.8	522.9
75°	263.1	313.6	394.6	448.4	461.0
77.5°	199.7	258.3	340.6	381.8	381.8
80°	142.6	204.4	280.4	299.5	302.6
82.5°	93.5	153.7	207.5	206.0	206.0
85°	53.8	99.8	123.5	120.5	120.5
87.5°	20.6	41.2	44.3	44.3	42.8
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)