

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: P732287

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732287  
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-3000K  
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RIBBED LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

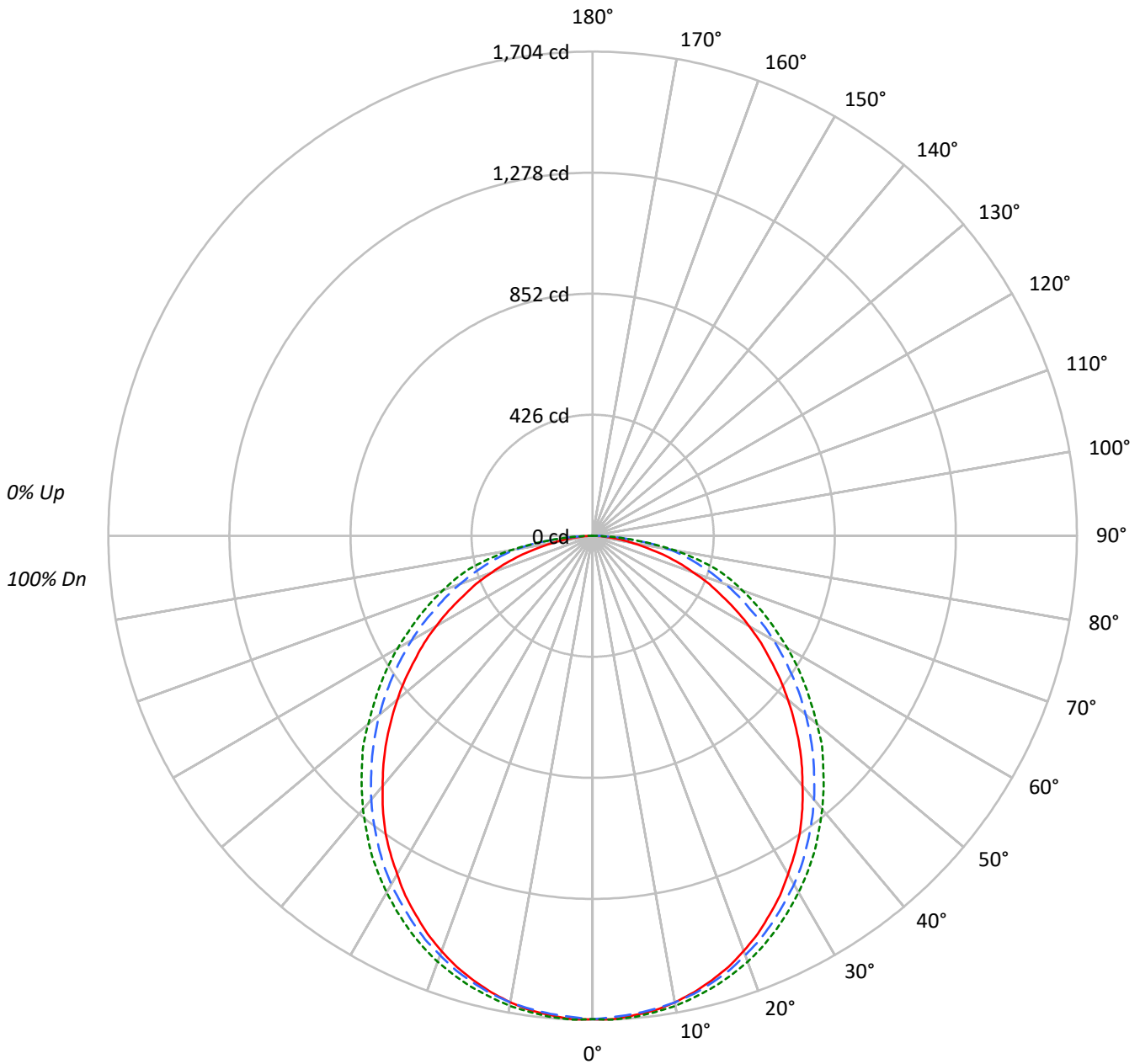
Lumens per Lamp: N/A  
Luminaire Lumens: 4843.0 lumens  
Efficiency: N/A  
Efficacy: 121.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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									
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°	2401	2401	2401
5°	2400	2393	2408
10°	2390	2390	2407
15°	2367	2378	2403
20°	2336	2359	2396
25°	2293	2336	2381
30°	2241	2309	2361
35°	2192	2272	2343
40°	2117	2233	2315
45°	2048	2189	2291
50°	1969	2148	2263
55°	1881	2108	2241
60°	1794	2076	2236
65°	1680	2039	2250
70°	1555	2050	2310
75°	1393	2089	2441
80°	1126	2213	2388
85°	847	1942	1895



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.1	3.3
10°-20°	460.2	9.5
20°-30°	691.8	14.3
30°-40°	824.1	17.0
40°-50°	843.4	17.4
50°-60°	759.3	15.7
60°-70°	596.3	12.3
70°-80°	387.0	8.0
80°-90°	119.7	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°	1313.1	27.1
0°-40°	2137.2	44.1
0°-60°	3740.0	77.2
0°-90°	4843.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4843.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1702	1702	1702	1702	1702	
5°	1694	1697	1689	1698	1700	161
15°	1620	1624	1628	1641	1645	457
25°	1472	1484	1500	1524	1529	678
35°	1272	1288	1318	1351	1360	794
45°	1026	1051	1097	1138	1148	791
55°	764	798	857	902	911	685
65°	503	542	611	662	674	501
75°	255	304	383	435	448	270
85°	52	97	120	117	117	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1701.5	1701.5	1701.5	1701.5	1701.5
2.5°	1702.9	1702.9	1695.2	1702.9	1704.4
5°	1693.7	1696.8	1689.0	1698.3	1699.8
7.5°	1684.4	1684.4	1679.8	1689.0	1690.7
10°	1667.5	1669.0	1667.5	1678.3	1679.8
12.5°	1646.0	1649.0	1650.7	1661.4	1662.9
15°	1619.9	1624.5	1627.5	1641.4	1644.6
17.5°	1590.6	1595.3	1602.9	1618.2	1621.4
20°	1555.2	1561.3	1570.6	1590.6	1595.3
22.5°	1516.9	1523.0	1538.4	1556.7	1564.5
25°	1472.2	1484.4	1499.8	1524.5	1529.1
27.5°	1427.5	1438.3	1458.3	1484.4	1490.7
30°	1375.3	1392.1	1416.8	1442.9	1449.0
32.5°	1324.5	1341.3	1370.6	1398.4	1406.0
35°	1272.2	1287.6	1318.4	1350.6	1359.9
37.5°	1212.1	1232.2	1266.1	1298.3	1307.6
40°	1149.1	1173.8	1212.1	1246.1	1256.8
42.5°	1089.1	1115.2	1153.8	1190.6	1202.9
45°	1026.1	1050.7	1096.9	1138.4	1147.6
47.5°	961.4	989.2	1038.3	1079.8	1095.2
50°	896.9	926.2	978.4	1021.4	1030.7
52.5°	832.2	863.0	918.4	964.5	969.2
55°	764.5	798.5	856.8	901.5	910.8
57.5°	703.0	732.3	795.3	841.5	852.2
60°	635.4	667.6	735.3	778.4	792.2
62.5°	570.7	604.6	675.4	718.4	730.6
65°	503.0	541.6	610.7	661.5	673.7
67.5°	444.6	481.5	555.3	604.6	616.8
70°	376.8	418.5	496.9	547.7	559.9
72.5°	318.4	361.4	440.0	489.1	507.7
75°	255.4	304.5	383.1	435.4	447.6
77.5°	193.9	250.8	330.7	370.7	370.7
80°	138.5	198.5	272.3	290.8	293.8
82.5°	90.8	149.2	201.5	200.0	200.0
85°	52.3	96.9	119.9	117.0	117.0
87.5°	20.0	40.0	43.0	43.0	41.5
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)