

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: P732288

Luminaire Tested: **24CZ2-50-B2750-W2D-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732288  
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-3500K  
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RIBBED LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

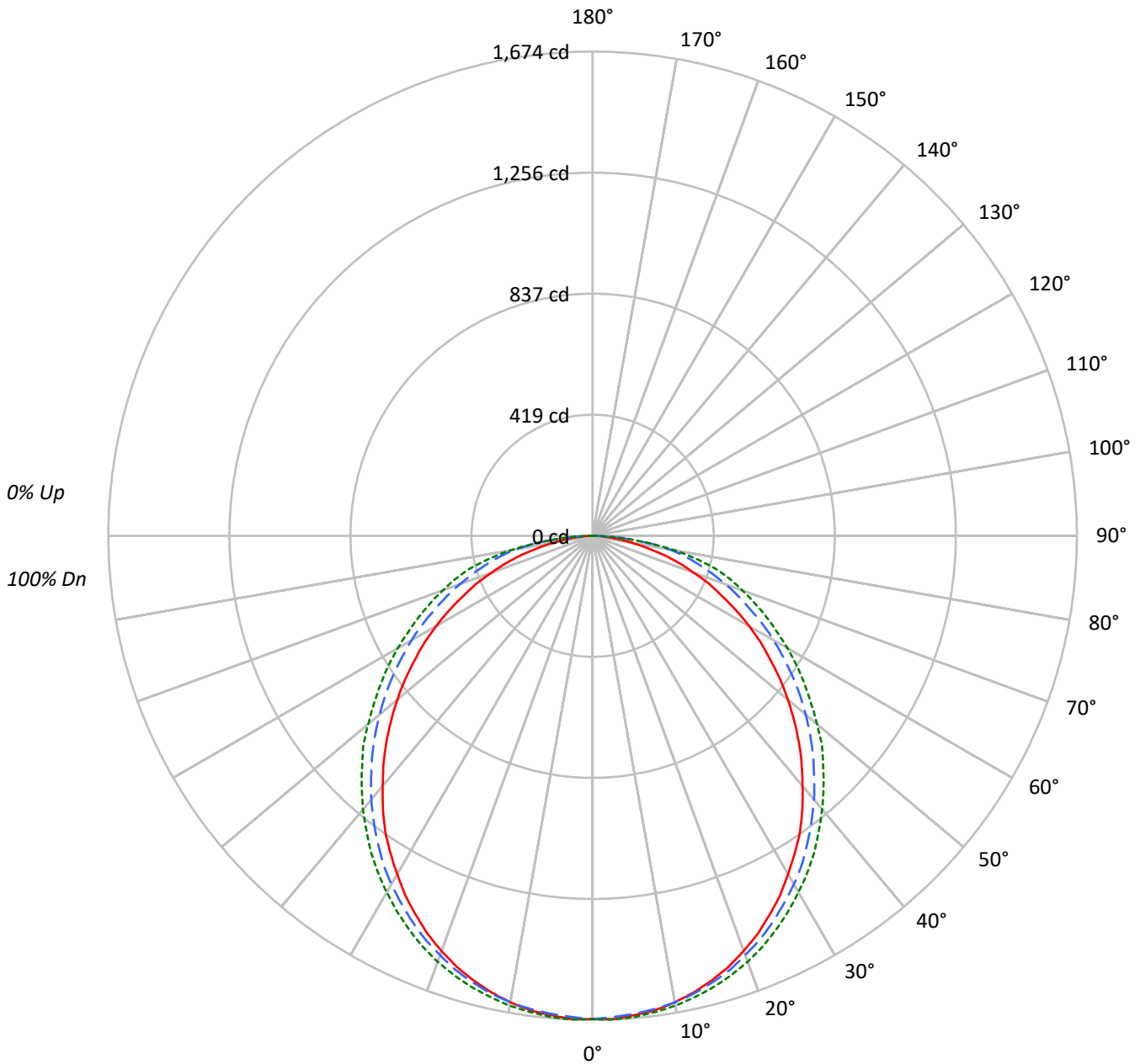
Lumens per Lamp: N/A  
Luminaire Lumens: 4757.0 lumens  
Efficiency: N/A  
Efficacy: 118.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	2359	2359	2359
5°	2357	2350	2365
10°	2347	2347	2364
15°	2325	2336	2360
20°	2294	2317	2353
25°	2252	2294	2339
30°	2201	2268	2320
35°	2153	2231	2301
40°	2079	2194	2274
45°	2012	2150	2250
50°	1934	2110	2223
55°	1848	2071	2201
60°	1762	2039	2196
65°	1650	2003	2210
70°	1527	2014	2270
75°	1368	2052	2398
80°	1105	2173	2346
85°	831	1908	1861



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.2	3.3
10°-20°	452.1	9.5
20°-30°	679.5	14.3
30°-40°	809.4	17.0
40°-50°	828.4	17.4
50°-60°	745.9	15.7
60°-70°	585.7	12.3
70°-80°	380.1	8.0
80°-90°	117.6	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°	1289.8	27.1
0°-40°	2099.3	44.1
0°-60°	3673.6	77.2
0°-90°	4757.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4757.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1671	1671	1671	1671	1671	
5°	1664	1667	1659	1668	1670	158
15°	1591	1596	1599	1612	1615	449
25°	1446	1458	1473	1497	1502	666
35°	1250	1265	1295	1327	1336	780
45°	1008	1032	1077	1118	1127	777
55°	751	784	842	886	895	673
65°	494	532	600	650	662	492
75°	251	299	376	428	440	265
85°	51	95	118	115	115	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1671.2	1671.2	1671.2	1671.2	1671.2
2.5°	1672.7	1672.7	1665.1	1672.7	1674.2
5°	1663.6	1666.7	1659.0	1668.1	1669.6
7.5°	1654.5	1654.5	1649.9	1659.0	1660.7
10°	1637.9	1639.4	1637.9	1648.5	1649.9
12.5°	1616.8	1619.7	1621.4	1631.9	1633.4
15°	1591.1	1595.7	1598.6	1612.3	1615.4
17.5°	1562.4	1566.9	1574.4	1589.5	1592.6
20°	1527.6	1533.6	1542.7	1562.4	1566.9
22.5°	1489.9	1495.9	1511.0	1529.1	1536.7
25°	1446.0	1458.1	1473.2	1497.4	1501.9
27.5°	1402.2	1412.7	1432.4	1458.1	1464.2
30°	1350.8	1367.4	1391.6	1417.3	1423.3
32.5°	1300.9	1317.5	1346.3	1373.6	1381.1
35°	1249.6	1264.7	1294.9	1326.6	1335.7
37.5°	1190.6	1210.3	1243.6	1275.3	1284.4
40°	1128.7	1152.9	1190.6	1223.9	1234.5
42.5°	1069.7	1095.4	1133.3	1169.5	1181.5
45°	1007.8	1032.1	1077.4	1118.2	1127.3
47.5°	944.3	971.6	1019.9	1060.6	1075.7
50°	881.0	909.7	961.1	1003.3	1012.4
52.5°	817.4	847.6	902.1	947.4	952.0
55°	751.0	784.3	841.6	885.5	894.6
57.5°	690.5	719.3	781.2	826.5	837.1
60°	624.1	655.8	722.2	764.6	778.1
62.5°	560.5	593.9	663.4	705.6	717.7
65°	494.1	532.0	599.9	649.7	661.8
67.5°	436.7	473.0	545.4	593.9	605.9
70°	370.1	411.1	488.1	538.0	550.0
72.5°	312.8	355.0	432.2	480.4	498.6
75°	250.9	299.1	376.3	427.6	439.7
77.5°	190.4	246.3	324.8	364.1	364.1
80°	136.0	195.0	267.4	285.6	288.6
82.5°	89.2	146.6	197.9	196.4	196.4
85°	51.3	95.2	117.8	114.9	114.9
87.5°	19.7	39.3	42.2	42.2	40.8
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)