

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: P843114

Luminaire Tested: **24CZ2-50-UNV-B50**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P843114  
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-UNV-B50  
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RIBBED LENS  
  
Light Source: -  
Ballast/Driver: -

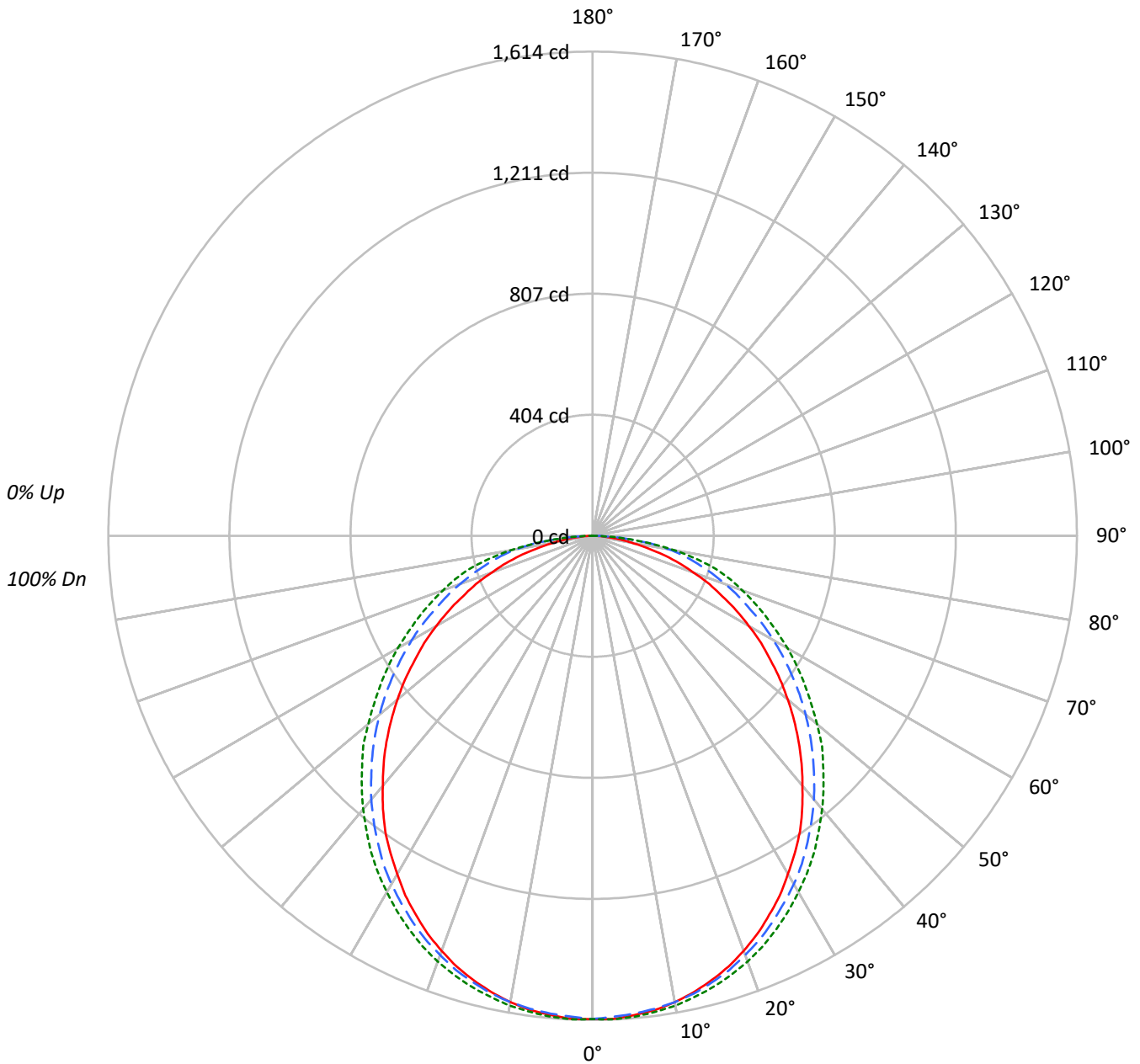
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4585.0 lumens  
Efficiency: N/A  
Efficacy: 114.6 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°	2273	2273	2273
5°	2272	2265	2280
10°	2262	2262	2279
15°	2241	2251	2275
20°	2211	2233	2268
25°	2170	2211	2254
30°	2122	2186	2236
35°	2075	2150	2218
40°	2004	2114	2192
45°	1939	2073	2169
50°	1864	2034	2143
55°	1781	1996	2122
60°	1698	1965	2117
65°	1590	1931	2130
70°	1472	1941	2187
75°	1319	1978	2311
80°	1066	2095	2260
85°	802	1838	1793



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.5	3.3
10°-20°	435.7	9.5
20°-30°	655.0	14.3
30°-40°	780.2	17.0
40°-50°	798.5	17.4
50°-60°	718.9	15.7
60°-70°	564.6	12.3
70°-80°	366.4	8.0
80°-90°	113.3	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°	1243.2	27.1
0°-40°	2023.4	44.1
0°-60°	3540.7	77.2
0°-90°	4585.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4585.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1611	1611	1611	1611	1611	
5°	1603	1606	1599	1608	1609	152
15°	1534	1538	1541	1554	1557	432
25°	1394	1405	1420	1443	1448	642
35°	1204	1219	1248	1279	1287	751
45°	971	995	1038	1078	1086	749
55°	724	756	811	854	862	649
65°	476	513	578	626	638	474
75°	242	288	363	412	424	256
85°	50	92	114	111	111	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1610.8	1610.8	1610.8	1610.8	1610.8
2.5°	1612.2	1612.2	1604.8	1612.2	1613.6
5°	1603.4	1606.4	1599.1	1607.8	1609.2
7.5°	1594.7	1594.7	1590.3	1599.1	1600.6
10°	1578.7	1580.1	1578.7	1588.9	1590.3
12.5°	1558.3	1561.2	1562.7	1572.9	1574.3
15°	1533.6	1538.0	1540.8	1554.0	1556.9
17.5°	1505.9	1510.3	1517.5	1532.0	1535.0
20°	1472.4	1478.2	1486.9	1505.9	1510.3
22.5°	1436.0	1441.8	1456.4	1473.8	1481.1
25°	1393.8	1405.3	1419.9	1443.2	1447.6
27.5°	1351.5	1361.6	1380.6	1405.3	1411.3
30°	1302.0	1318.0	1341.3	1366.0	1371.8
32.5°	1253.9	1269.9	1297.6	1323.9	1331.1
35°	1204.4	1219.0	1248.1	1278.7	1287.4
37.5°	1147.6	1166.5	1198.6	1229.2	1237.9
40°	1087.9	1111.3	1147.6	1179.7	1189.9
42.5°	1031.1	1055.8	1092.3	1127.2	1138.8
45°	971.4	994.7	1038.4	1077.7	1086.5
47.5°	910.2	936.5	983.0	1022.3	1036.9
50°	849.1	876.8	926.3	967.0	975.8
52.5°	787.9	817.0	869.5	913.1	917.5
55°	723.8	755.9	811.2	853.5	862.3
57.5°	665.6	693.3	752.9	796.6	806.8
60°	601.5	632.0	696.1	737.0	750.0
62.5°	540.3	572.4	639.4	680.1	691.7
65°	476.2	512.7	578.2	626.3	637.8
67.5°	421.0	455.9	525.7	572.4	584.0
70°	356.7	396.2	470.4	518.5	530.1
72.5°	301.5	342.2	416.6	463.1	480.6
75°	241.8	288.3	362.7	412.2	423.8
77.5°	183.5	237.4	313.0	350.9	350.9
80°	131.1	187.9	257.8	275.3	278.1
82.5°	86.0	141.3	190.7	189.3	189.3
85°	49.5	91.8	113.5	110.7	110.7
87.5°	19.0	37.9	40.7	40.7	39.3
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)