

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: P843054

Luminaire Tested: **24CZ2-40-UNV-B50**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P843054  
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: 24CZ2-40-UNV-B50  
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RIBBED LENS  
  
Light Source: -  
Ballast/Driver: -

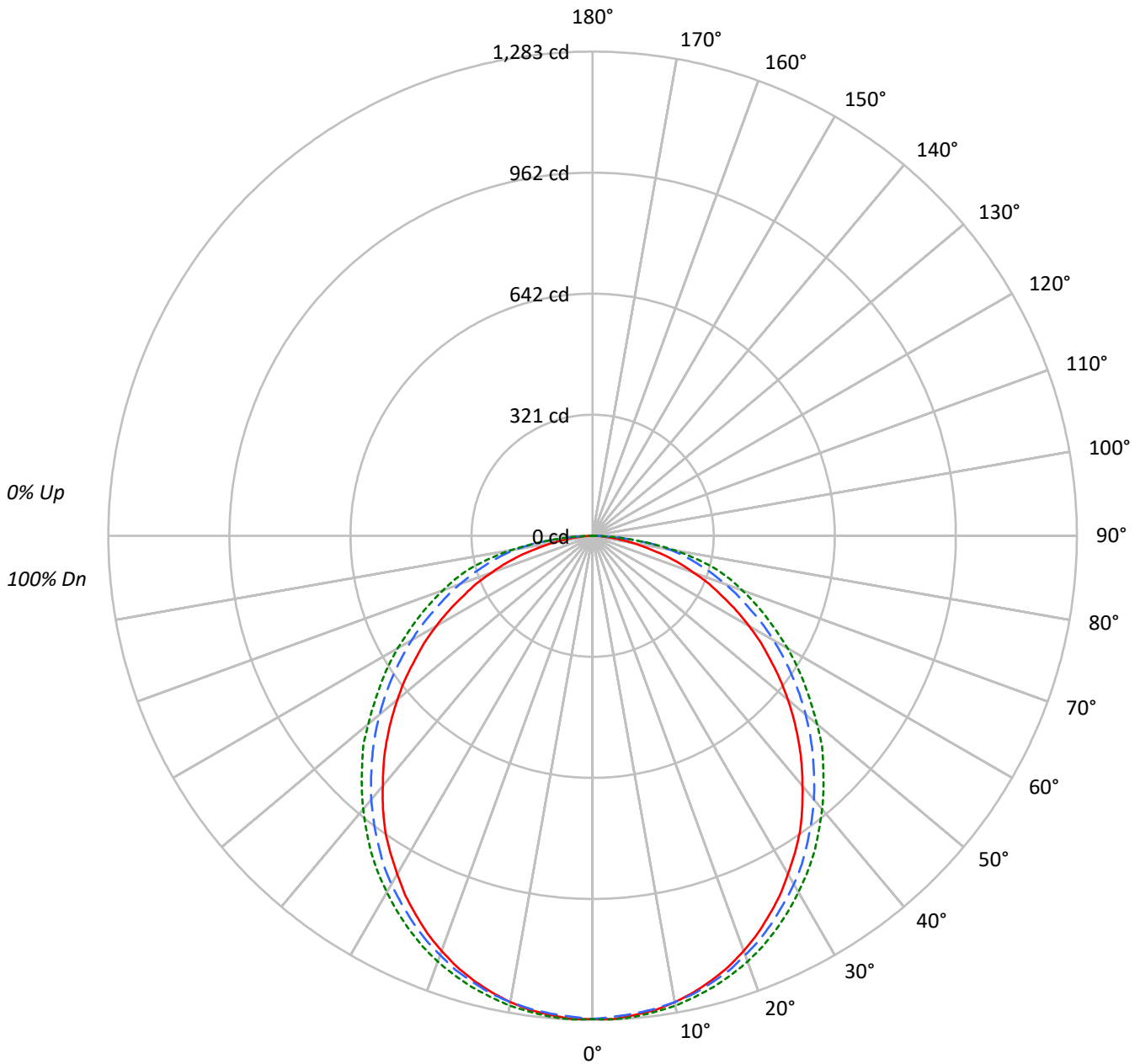
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3645.0 lumens  
Efficiency: N/A  
Efficacy: 117.6 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): 31  
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°	1807	1807	1807
5°	1806	1801	1812
10°	1799	1799	1812
15°	1781	1790	1808
20°	1758	1775	1803
25°	1725	1758	1792
30°	1687	1738	1777
35°	1650	1709	1763
40°	1593	1681	1743
45°	1541	1648	1724
50°	1482	1617	1703
55°	1416	1587	1687
60°	1350	1562	1683
65°	1264	1535	1693
70°	1170	1543	1739
75°	1048	1572	1837
80°	847	1665	1797
85°	636	1462	1425



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.2	3.3
10°-20°	346.4	9.5
20°-30°	520.7	14.3
30°-40°	620.2	17.0
40°-50°	634.8	17.4
50°-60°	571.5	15.7
60°-70°	448.8	12.3
70°-80°	291.3	8.0
80°-90°	90.1	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°	988.3	27.1
0°-40°	1608.5	44.1
0°-60°	2814.8	77.2
0°-90°	3645.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3645.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1281	1281	1281	1281	1281	
5°	1275	1277	1271	1278	1279	121
15°	1219	1223	1225	1235	1238	344
25°	1108	1117	1129	1147	1151	510
35°	958	969	992	1016	1024	597
45°	772	791	826	857	864	595
55°	575	601	645	678	686	516
65°	379	408	460	498	507	377
75°	192	229	288	328	337	203
85°	39	73	90	88	88	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1280.6	1280.6	1280.6	1280.6	<i>1280.6</i>
2.5°	<i>1281.7</i>	<i>1281.7</i>	<i>1275.8</i>	<i>1281.7</i>	<i>1282.8</i>
5°	1274.7	1277.1	1271.2	1278.2	<i>1279.3</i>
7.5°	1267.7	1267.7	1264.3	1271.2	<i>1272.5</i>
10°	1255.0	1256.2	1255.0	1263.1	<i>1264.3</i>
12.5°	1238.9	1241.1	1242.4	1250.4	<i>1251.6</i>
15°	1219.2	1222.7	1224.9	1235.4	<i>1237.7</i>
17.5°	1197.2	1200.6	1206.4	1217.9	<i>1220.3</i>
20°	1170.5	1175.1	1182.1	1197.2	<i>1200.6</i>
22.5°	1141.6	1146.2	1157.8	1171.6	<i>1177.5</i>
25°	1108.0	1117.2	1128.8	1147.4	<i>1150.8</i>
27.5°	1074.4	1082.5	1097.6	1117.2	<i>1122.0</i>
30°	1035.1	1047.8	1066.3	1086.0	<i>1090.6</i>
32.5°	996.8	1009.5	1031.6	1052.5	<i>1058.2</i>
35°	957.5	969.1	992.2	1016.5	<i>1023.5</i>
37.5°	912.3	927.4	952.9	977.2	<i>984.1</i>
40°	864.9	883.4	912.3	937.8	<i>945.9</i>
42.5°	819.7	839.3	868.4	896.1	<i>905.3</i>
45°	772.2	790.8	825.5	856.8	<i>863.8</i>
47.5°	723.6	744.5	781.5	812.7	<i>824.3</i>
50°	675.0	697.1	736.4	768.8	<i>775.7</i>
52.5°	626.3	649.5	691.2	725.9	<i>729.4</i>
55°	575.4	600.9	644.9	678.5	<i>685.5</i>
57.5°	529.1	551.1	598.6	633.3	<i>641.4</i>
60°	478.2	502.5	553.4	585.9	<i>596.2</i>
62.5°	429.5	455.0	508.3	540.7	<i>549.9</i>
65°	378.6	407.6	459.6	497.9	<i>507.1</i>
67.5°	334.7	362.4	417.9	455.0	<i>464.2</i>
70°	283.6	315.0	374.0	412.2	<i>421.4</i>
72.5°	239.7	272.0	331.2	368.1	<i>382.1</i>
75°	192.2	229.2	288.3	327.7	<i>336.9</i>
77.5°	145.9	188.7	248.9	279.0	<i>279.0</i>
80°	104.2	149.4	204.9	218.9	<i>221.1</i>
82.5°	68.4	112.3	151.6	150.5	<i>150.5</i>
85°	39.3	73.0	90.3	88.0	<i>88.0</i>
87.5°	15.1	30.1	32.4	32.4	<i>31.2</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)