

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: P843047

Luminaire Tested: **24CZ2-40-S-UNV-B40**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P843047  
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-S-UNV-B40  
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

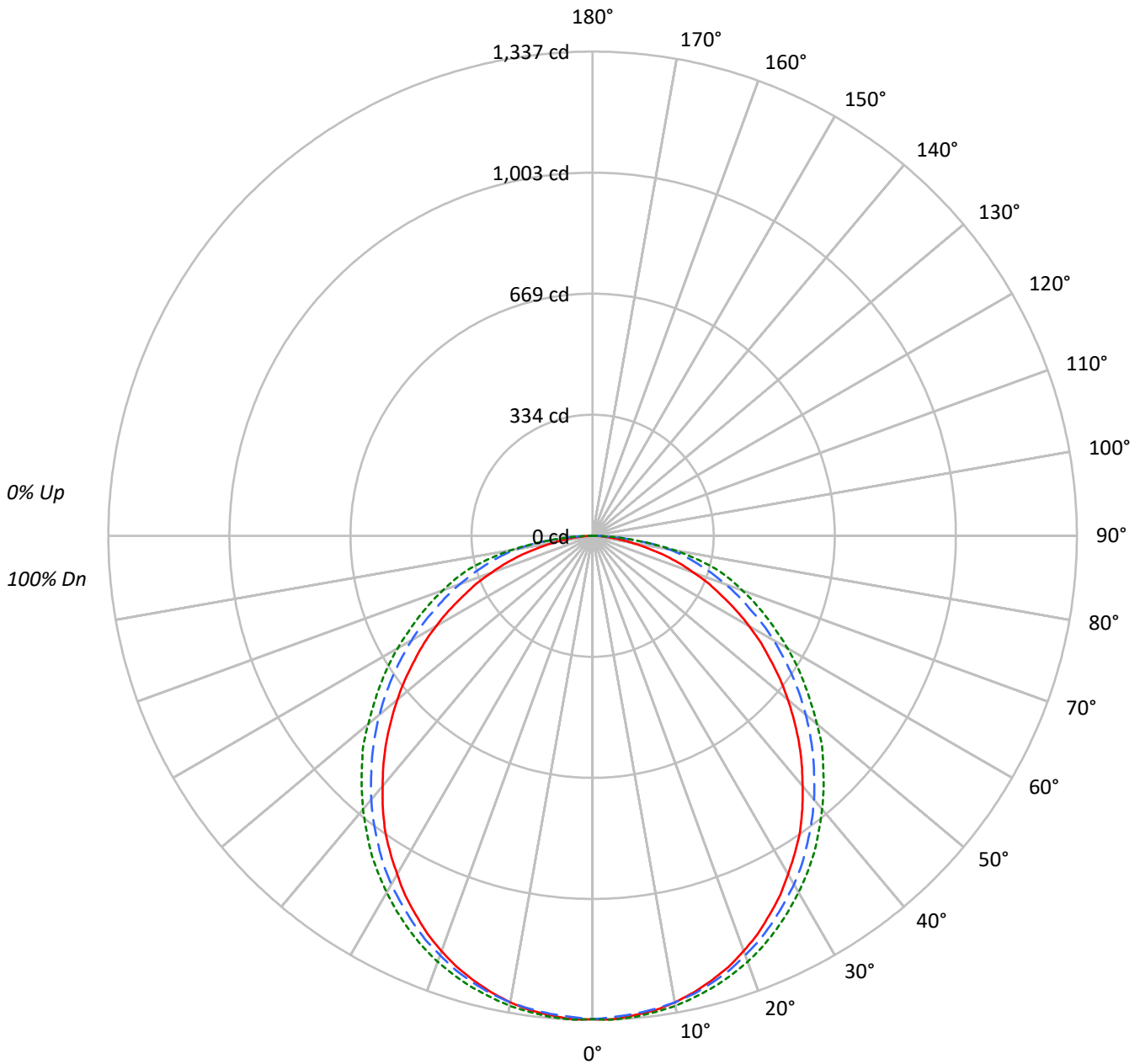
Lumens per Lamp: N/A  
Luminaire Lumens: 3800.0 lumens  
Efficiency: N/A  
Efficacy: 122.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 31  
Input Voltage (V): NR  
Input Current (Ain): 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°	1884	1884	1884
5°	1883	1878	1889
10°	1875	1875	1889
15°	1857	1866	1885
20°	1833	1851	1880
25°	1799	1833	1868
30°	1759	1812	1853
35°	1720	1782	1838
40°	1661	1752	1817
45°	1607	1718	1797
50°	1545	1686	1776
55°	1476	1654	1758
60°	1407	1628	1755
65°	1318	1600	1765
70°	1220	1609	1813
75°	1093	1639	1915
80°	883	1736	1873
85°	664	1524	1487



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.4	3.3
10°-20°	361.1	9.5
20°-30°	542.8	14.3
30°-40°	646.6	17.0
40°-50°	661.8	17.4
50°-60°	595.8	15.7
60°-70°	467.9	12.3
70°-80°	303.7	8.0
80°-90°	93.9	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°	1030.3	27.1
0°-40°	1676.9	44.1
0°-60°	2934.5	77.2
0°-90°	3800.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3800.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1335	1335	1335	1335	1335	
5°	1329	1331	1325	1333	1334	126
15°	1271	1275	1277	1288	1290	358
25°	1155	1165	1177	1196	1200	532
35°	998	1010	1034	1060	1067	623
45°	805	824	861	893	900	621
55°	600	626	672	707	715	538
65°	395	425	479	519	529	393
75°	200	239	301	342	351	212
85°	41	76	94	92	92	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1335.0	1335.0	1335.0	1335.0	<i>1335.0</i>
2.5°	<i>1336.2</i>	<i>1336.2</i>	<i>1330.1</i>	<i>1336.2</i>	<i>1337.4</i>
5°	1328.9	1331.4	1325.3	1332.6	<i>1333.7</i>
7.5°	1321.6	1321.6	1318.0	1325.3	<i>1326.6</i>
10°	1308.4	1309.6	1308.4	1316.8	<i>1318.0</i>
12.5°	1291.5	1293.9	1295.2	1303.6	<i>1304.8</i>
15°	1271.0	1274.7	1277.0	1287.9	<i>1290.4</i>
17.5°	1248.1	1251.7	1257.7	1269.7	<i>1272.2</i>
20°	1220.3	1225.1	1232.4	1248.1	<i>1251.7</i>
22.5°	1190.2	1195.0	1207.1	1221.4	<i>1227.6</i>
25°	1155.1	1164.7	1176.8	1196.1	<i>1199.8</i>
27.5°	1120.1	1128.5	1144.2	1164.7	<i>1169.7</i>
30°	1079.1	1092.3	1111.6	1132.2	<i>1137.0</i>
32.5°	1039.2	1052.5	1075.4	1097.3	<i>1103.2</i>
35°	998.2	1010.3	1034.4	1059.7	<i>1067.0</i>
37.5°	951.1	966.8	993.4	1018.7	<i>1026.0</i>
40°	901.7	921.0	951.1	977.7	<i>986.1</i>
42.5°	854.5	875.0	905.3	934.2	<i>943.8</i>
45°	805.1	824.4	860.6	893.2	<i>900.5</i>
47.5°	754.3	776.1	814.7	847.3	<i>859.3</i>
50°	703.7	726.7	767.7	801.5	<i>808.7</i>
52.5°	653.0	677.1	720.6	756.8	<i>760.4</i>
55°	599.9	626.5	672.3	707.4	<i>714.6</i>
57.5°	551.6	574.6	624.0	660.2	<i>668.7</i>
60°	498.5	523.8	576.9	610.8	<i>621.6</i>
62.5°	447.8	474.4	529.9	563.7	<i>573.3</i>
65°	394.7	424.9	479.2	519.0	<i>528.6</i>
67.5°	348.9	377.8	435.7	474.4	<i>484.0</i>
70°	295.7	328.4	389.9	429.7	<i>439.3</i>
72.5°	249.8	283.6	345.2	383.8	<i>398.3</i>
75°	200.4	238.9	300.6	341.6	<i>351.2</i>
77.5°	152.1	196.8	259.4	290.9	<i>290.9</i>
80°	108.6	155.8	213.6	228.2	<i>230.5</i>
82.5°	71.3	117.1	158.1	156.9	<i>156.9</i>
85°	41.0	76.1	94.1	91.8	<i>91.8</i>
87.5°	15.7	31.4	33.7	33.7	<i>32.6</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)