

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: P732202

Luminaire Tested: **24CZ2-40-S-B2750-W2D-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732202  
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-B2750-W2D-3000K  
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

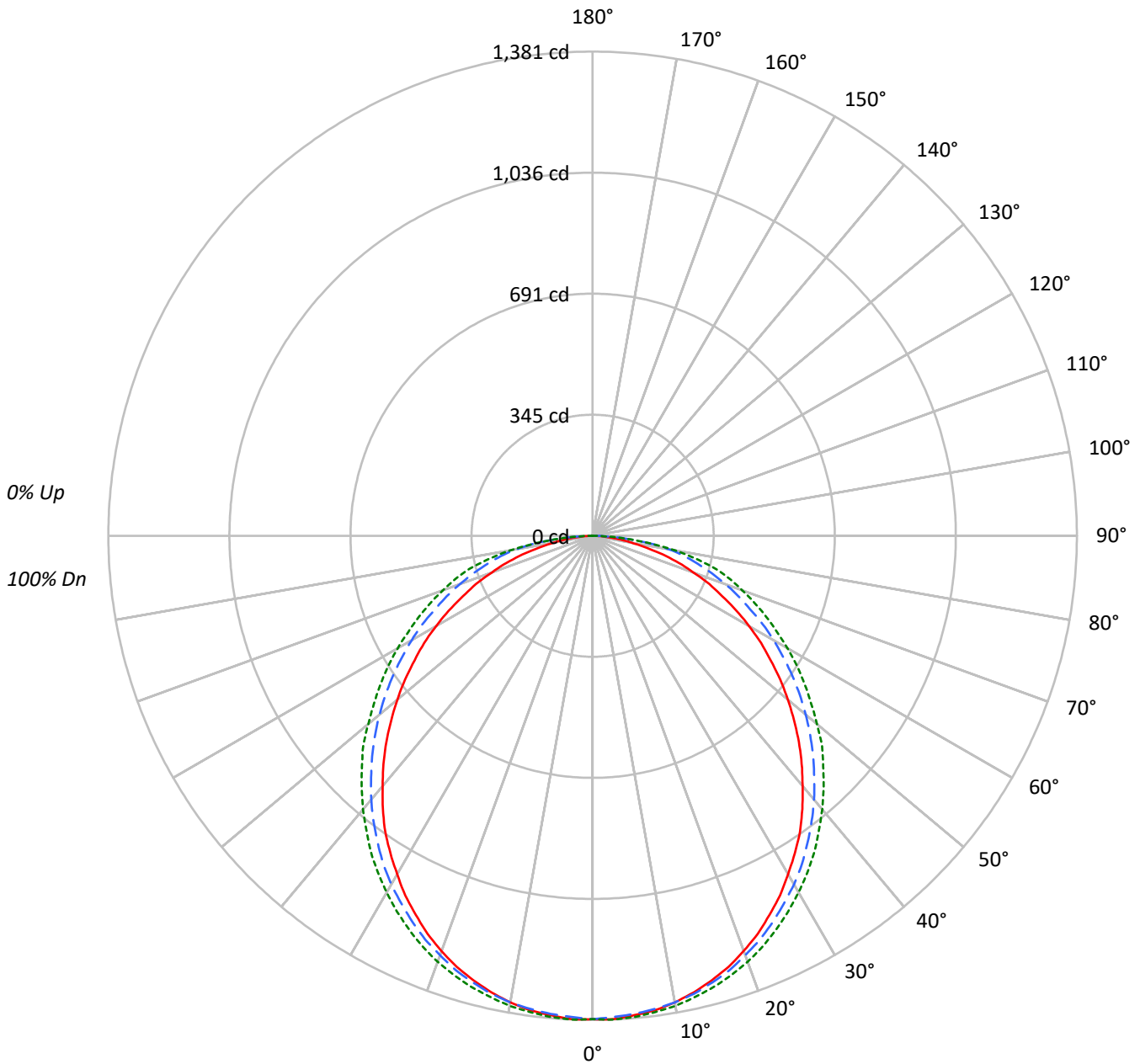
Lumens per Lamp: N/A  
Luminaire Lumens: 3925.0 lumens  
Efficiency: N/A  
Efficacy: 126.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	1946	1946	1946
5°	1945	1939	1952
10°	1937	1937	1951
15°	1918	1927	1947
20°	1893	1912	1942
25°	1858	1893	1930
30°	1816	1871	1914
35°	1777	1841	1899
40°	1716	1810	1877
45°	1660	1774	1856
50°	1596	1741	1834
55°	1525	1709	1816
60°	1453	1682	1812
65°	1362	1653	1823
70°	1260	1662	1873
75°	1129	1693	1978
80°	912	1794	1935
85°	687	1574	1535



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.5	3.3
10°-20°	373.0	9.5
20°-30°	560.7	14.3
30°-40°	667.9	17.0
40°-50°	683.5	17.4
50°-60°	615.4	15.7
60°-70°	483.3	12.3
70°-80°	313.7	8.0
80°-90°	97.0	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°	1064.2	27.1
0°-40°	1732.1	44.1
0°-60°	3031.1	77.2
0°-90°	3925.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3925.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1379	1379	1379	1379	1379	
5°	1373	1375	1369	1376	1378	130
15°	1313	1317	1319	1330	1333	370
25°	1193	1203	1216	1236	1239	550
35°	1031	1044	1068	1095	1102	643
45°	832	852	889	923	930	641
55°	620	647	694	731	738	556
65°	408	439	495	536	546	406
75°	207	247	310	353	363	219
85°	42	79	97	95	95	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1378.9	1378.9	1378.9	1378.9	<i>1378.9</i>
2.5°	<i>1380.1</i>	<i>1380.1</i>	<i>1373.8</i>	<i>1380.1</i>	<i>1381.3</i>
5°	1372.6	1375.2	1368.9	1376.4	<i>1377.6</i>
7.5°	1365.1	1365.1	1361.4	1368.9	<i>1370.2</i>
10°	1351.5	1352.7	1351.5	1360.2	<i>1361.4</i>
12.5°	1334.0	1336.4	1337.8	1346.5	<i>1347.7</i>
15°	1312.8	1316.6	1319.0	1330.3	<i>1332.8</i>
17.5°	1289.1	1292.9	1299.0	1311.5	<i>1314.1</i>
20°	1260.4	1265.4	1272.9	1289.1	<i>1292.9</i>
22.5°	1229.3	1234.3	1246.8	1261.6	<i>1267.9</i>
25°	1193.1	1203.0	1215.5	1235.5	<i>1239.2</i>
27.5°	1156.9	1165.6	1181.9	1203.0	<i>1208.2</i>
30°	1114.6	1128.2	1148.2	1169.4	<i>1174.4</i>
32.5°	1073.4	1087.1	1110.8	1133.3	<i>1139.5</i>
35°	1031.1	1043.5	1068.5	1094.6	<i>1102.1</i>
37.5°	982.4	998.6	1026.1	1052.2	<i>1059.7</i>
40°	931.3	951.3	982.4	1009.9	<i>1018.6</i>
42.5°	882.6	903.8	935.1	965.0	<i>974.9</i>
45°	831.6	851.5	889.0	922.6	<i>930.1</i>
47.5°	779.1	801.7	841.5	875.1	<i>887.6</i>
50°	726.9	750.6	793.0	827.8	<i>835.3</i>
52.5°	674.5	699.4	744.3	781.7	<i>785.5</i>
55°	619.6	647.1	694.4	730.6	<i>738.1</i>
57.5°	569.8	593.5	644.6	682.0	<i>690.7</i>
60°	514.9	541.1	595.9	630.9	<i>642.0</i>
62.5°	462.5	490.0	547.4	582.2	<i>592.1</i>
65°	407.7	438.9	494.9	536.1	<i>546.0</i>
67.5°	360.4	390.2	450.0	490.0	<i>499.9</i>
70°	305.4	339.2	402.7	443.9	<i>453.8</i>
72.5°	258.1	292.9	356.6	396.4	<i>411.4</i>
75°	207.0	246.8	310.5	352.8	<i>362.8</i>
77.5°	157.1	203.2	268.0	300.4	<i>300.4</i>
80°	112.2	160.9	220.7	235.7	<i>238.1</i>
82.5°	73.6	120.9	163.3	162.1	<i>162.1</i>
85°	42.4	78.6	97.2	94.8	<i>94.8</i>
87.5°	16.2	32.4	34.8	34.8	<i>33.6</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)