

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: P732186

Luminaire Tested: **24CZ2-40-B2750-W2D-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732186  
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-B2750-W2D-2700K  
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND RIBBED LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

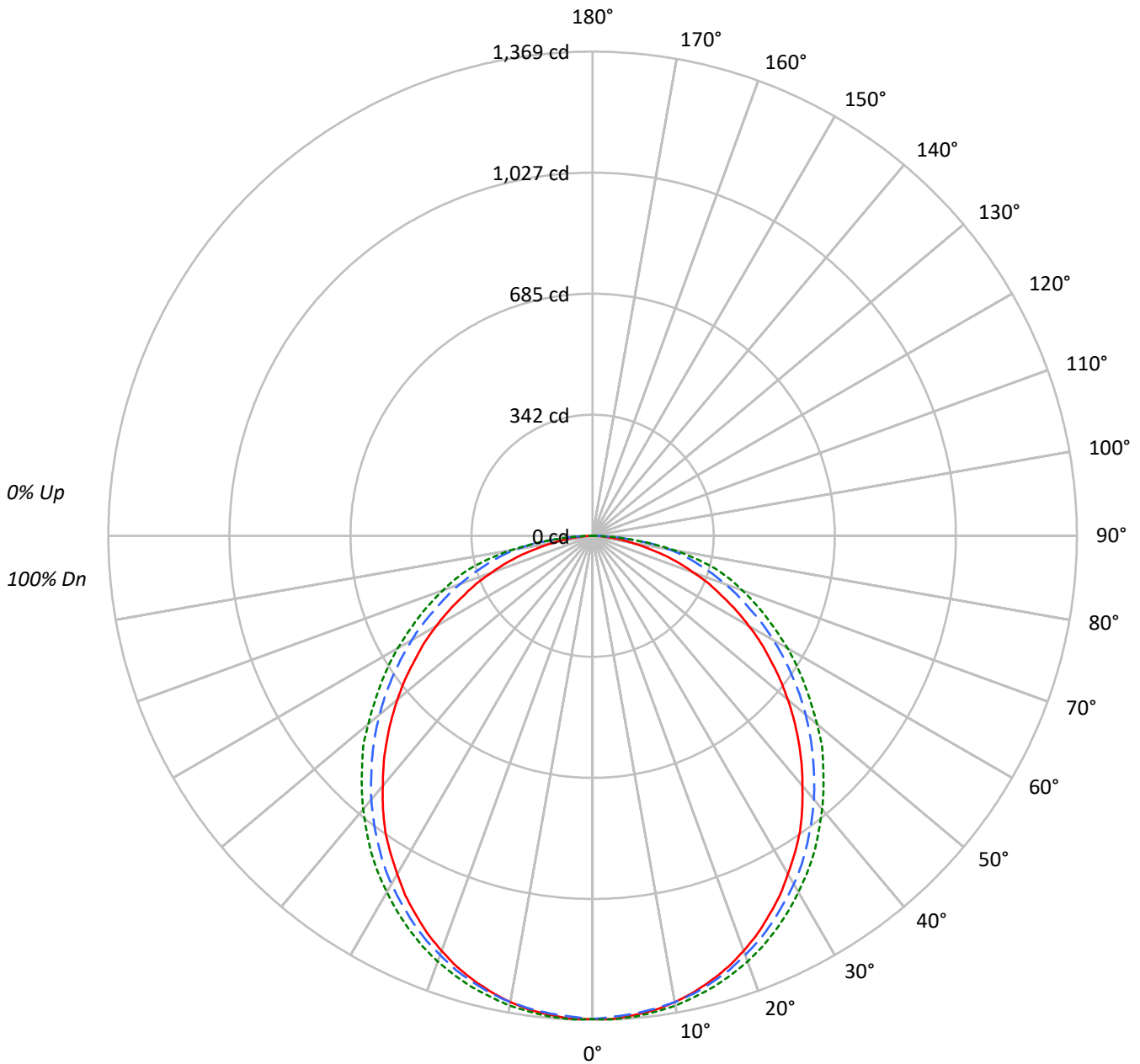
Lumens per Lamp: N/A  
Luminaire Lumens: 3889.0 lumens  
Efficiency: N/A  
Efficacy: 125.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	1928	1928	1928
5°	1927	1922	1934
10°	1919	1919	1933
15°	1901	1910	1930
20°	1876	1894	1924
25°	1841	1876	1912
30°	1800	1854	1896
35°	1760	1824	1881
40°	1700	1793	1859
45°	1644	1758	1839
50°	1581	1725	1817
55°	1511	1693	1800
60°	1440	1667	1796
65°	1349	1638	1807
70°	1249	1646	1855
75°	1118	1677	1960
80°	904	1777	1917
85°	680	1559	1521



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.3	3.3
10°-20°	369.6	9.5
20°-30°	555.6	14.3
30°-40°	661.8	17.0
40°-50°	677.3	17.4
50°-60°	609.8	15.7
60°-70°	478.9	12.3
70°-80°	310.8	8.0
80°-90°	96.1	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°	1054.5	27.1
0°-40°	1716.2	44.1
0°-60°	3003.3	77.2
0°-90°	3889.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3889.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1366	1366	1366	1366	1366	
5°	1360	1363	1356	1364	1365	129
15°	1301	1304	1307	1318	1321	367
25°	1182	1192	1204	1224	1228	545
35°	1022	1034	1059	1085	1092	637
45°	824	844	881	914	922	635
55°	614	641	688	724	731	550
65°	404	435	490	531	541	402
75°	205	244	308	350	359	217
85°	42	78	96	94	94	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1366.3	1366.3	1366.3	1366.3	<i>1366.3</i>
2.5°	<i>1367.5</i>	<i>1367.5</i>	<i>1361.2</i>	<i>1367.5</i>	<i>1368.7</i>
5°	1360.0	1362.6	1356.3	1363.8	<i>1365.0</i>
7.5°	1352.6	1352.6	1348.9	1356.3	<i>1357.7</i>
10°	1339.1	1340.2	1339.1	1347.7	<i>1348.9</i>
12.5°	1321.8	1324.2	1325.5	1334.1	<i>1335.3</i>
15°	1300.8	1304.5	1306.9	1318.1	<i>1320.6</i>
17.5°	1277.3	1281.0	1287.1	1299.5	<i>1302.0</i>
20°	1248.9	1253.8	1261.2	1277.3	<i>1281.0</i>
22.5°	1218.1	1223.0	1235.3	1250.1	<i>1256.3</i>
25°	1182.2	1192.0	1204.4	1224.2	<i>1227.9</i>
27.5°	1146.3	1155.0	1171.0	1192.0	<i>1197.1</i>
30°	1104.3	1117.9	1137.7	1158.7	<i>1163.6</i>
32.5°	1063.6	1077.1	1100.6	1123.0	<i>1129.1</i>
35°	1021.6	1033.9	1058.7	1084.6	<i>1092.0</i>
37.5°	973.4	989.4	1016.7	1042.6	<i>1050.0</i>
40°	922.8	942.6	973.4	1000.6	<i>1009.2</i>
42.5°	874.5	895.5	926.5	956.1	<i>965.9</i>
45°	823.9	843.7	880.8	914.1	<i>921.6</i>
47.5°	772.0	794.3	833.8	867.1	<i>879.5</i>
50°	720.2	743.7	785.7	820.2	<i>827.7</i>
52.5°	668.3	693.0	737.5	774.5	<i>778.3</i>
55°	613.9	641.2	688.1	723.9	<i>731.4</i>
57.5°	564.5	588.0	638.6	675.7	<i>684.3</i>
60°	510.2	536.1	590.4	625.1	<i>636.1</i>
62.5°	458.3	485.5	542.4	576.9	<i>586.7</i>
65°	403.9	434.9	490.4	531.2	<i>541.0</i>
67.5°	357.1	386.7	445.9	485.5	<i>495.3</i>
70°	302.6	336.1	399.0	439.8	<i>449.6</i>
72.5°	255.7	290.2	353.3	392.8	<i>407.7</i>
75°	205.1	244.5	307.6	349.6	<i>359.4</i>
77.5°	155.7	201.4	265.5	297.7	<i>297.7</i>
80°	111.2	159.4	218.6	233.5	<i>235.9</i>
82.5°	72.9	119.8	161.8	160.6	<i>160.6</i>
85°	42.0	77.8	96.3	93.9	<i>93.9</i>
87.5°	16.1	32.1	34.5	34.5	<i>33.3</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)