

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: P881008

Luminaire Tested: **24CZ2-70VHE-RDP-B2750-W2D-3000K**

Issue Date: 10/2/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P881008  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474311)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-70VHE-RDP-B2750-W2D-3000K  
Description: 2X4 7000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RDP LENS

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

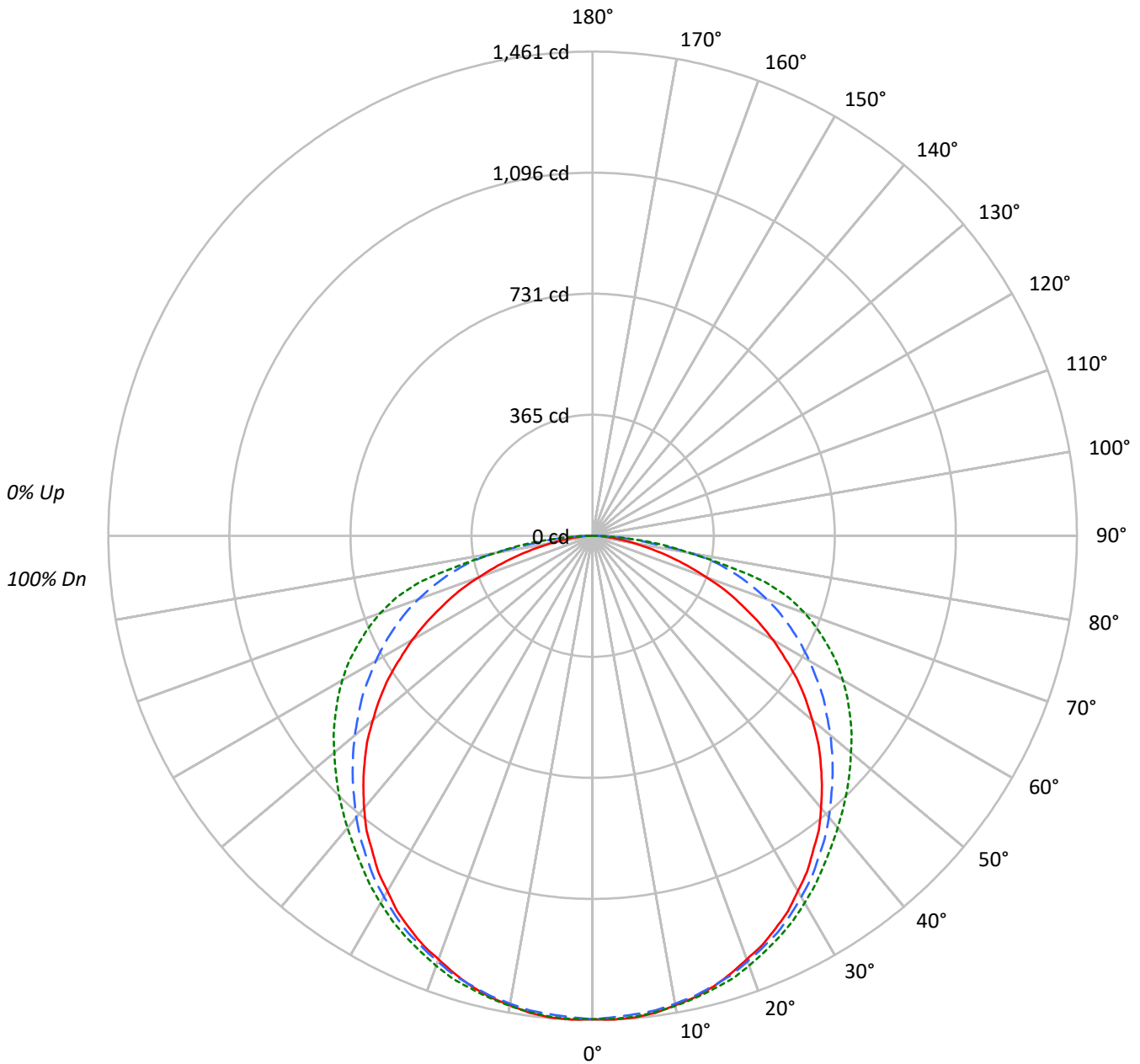
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4639.0 lumens  
Efficiency: N/A  
Efficacy: 82.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 56  
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									
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	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82																			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67																			
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47																			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40																			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35																			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27																			
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24																			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2059	2059	2059
5°	2067	2054	2064
10°	2061	2054	2064
15°	2057	2054	2068
20°	2042	2053	2074
25°	2035	2057	2078
30°	2017	2051	2085
35°	1998	2046	2093
40°	1976	2043	2119
45°	1943	2044	2167
50°	1899	2056	2233
55°	1851	2089	2333
60°	1773	2130	2461
65°	1660	2205	2613
70°	1509	2308	2810
75°	1279	2435	2937
80°	1010	2449	2374
85°	747	1862	2089



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.4	3.0
10°-20°	398.3	8.6
20°-30°	609.0	13.1
30°-40°	744.5	16.0
40°-50°	793.5	17.1
50°-60°	758.7	16.4
60°-70°	642.7	13.9
70°-80°	432.0	9.3
80°-90°	121.9	2.6
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°	1145.7	24.7
0°-40°	1890.2	40.7
0°-60°	3442.4	74.2
0°-90°	4639.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4639.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1459	1459	1459	1459	1459	
5°	1459	1457	1450	1457	1457	139
15°	1408	1408	1406	1417	1415	397
25°	1307	1312	1321	1332	1335	602
35°	1160	1169	1187	1210	1215	726
45°	973	990	1024	1068	1086	751
55°	752	780	849	916	948	670
65°	497	548	660	748	782	493
75°	235	320	446	522	539	251
85°	46	94	115	124	129	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1458.9	1458.9	1458.9	1458.9	1458.9
2.5°	1461.2	1461.2	1454.2	1458.9	1458.9
5°	1458.9	1456.7	1449.7	1456.7	1456.7
7.5°	1452.0	1449.7	1445.0	1452.0	1449.7
10°	1438.2	1438.2	1433.5	1440.5	1440.5
12.5°	1426.6	1424.3	1422.1	1431.3	1429.0
15°	1408.1	1408.1	1405.9	1417.3	1415.1
17.5°	1385.2	1387.5	1389.9	1399.1	1401.4
20°	1359.8	1364.5	1366.8	1380.7	1380.7
22.5°	1336.9	1339.2	1343.9	1357.6	1357.6
25°	1307.0	1311.5	1320.7	1332.2	1334.7
27.5°	1276.9	1279.4	1290.8	1307.0	1309.3
30°	1237.8	1244.8	1258.7	1276.9	1279.4
32.5°	1203.4	1210.2	1226.4	1244.8	1249.5
35°	1159.6	1168.8	1187.3	1210.2	1214.9
37.5°	1120.5	1127.3	1150.4	1175.8	1182.5
40°	1072.4	1085.9	1109.1	1139.0	1150.4
42.5°	1023.9	1037.8	1065.5	1104.4	1118.1
45°	973.4	989.5	1023.9	1067.7	1085.9
47.5°	922.8	941.2	980.3	1030.9	1051.6
50°	865.1	888.2	936.5	994.0	1017.2
52.5°	810.0	837.6	890.4	954.9	984.8
55°	752.3	779.9	849.1	915.8	948.0
57.5°	688.0	724.6	800.8	876.7	911.1
60°	628.2	662.6	754.7	837.6	872.0
62.5°	563.7	609.8	708.7	796.1	830.7
65°	497.0	547.8	660.4	747.8	782.4
67.5°	437.2	492.5	612.1	699.5	733.8
70°	365.8	434.8	559.3	646.4	681.0
72.5°	299.1	375.0	504.0	589.1	621.3
75°	234.6	319.7	446.5	522.4	538.6
77.5°	175.0	264.5	386.5	418.8	407.4
80°	124.3	211.9	301.3	285.1	292.1
82.5°	80.7	161.1	186.5	211.9	218.4
85°	46.1	94.4	115.0	124.3	129.0
87.5°	20.7	34.6	46.1	46.1	43.8
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)