

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: P880999

Luminaire Tested: **24CZ2-70VHE-B2750-W2D-3500K**

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: P880999  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P473819)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-70VHE-B2750-W2D-3500K  
Description: 2X4 7000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RIBBED LENS

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

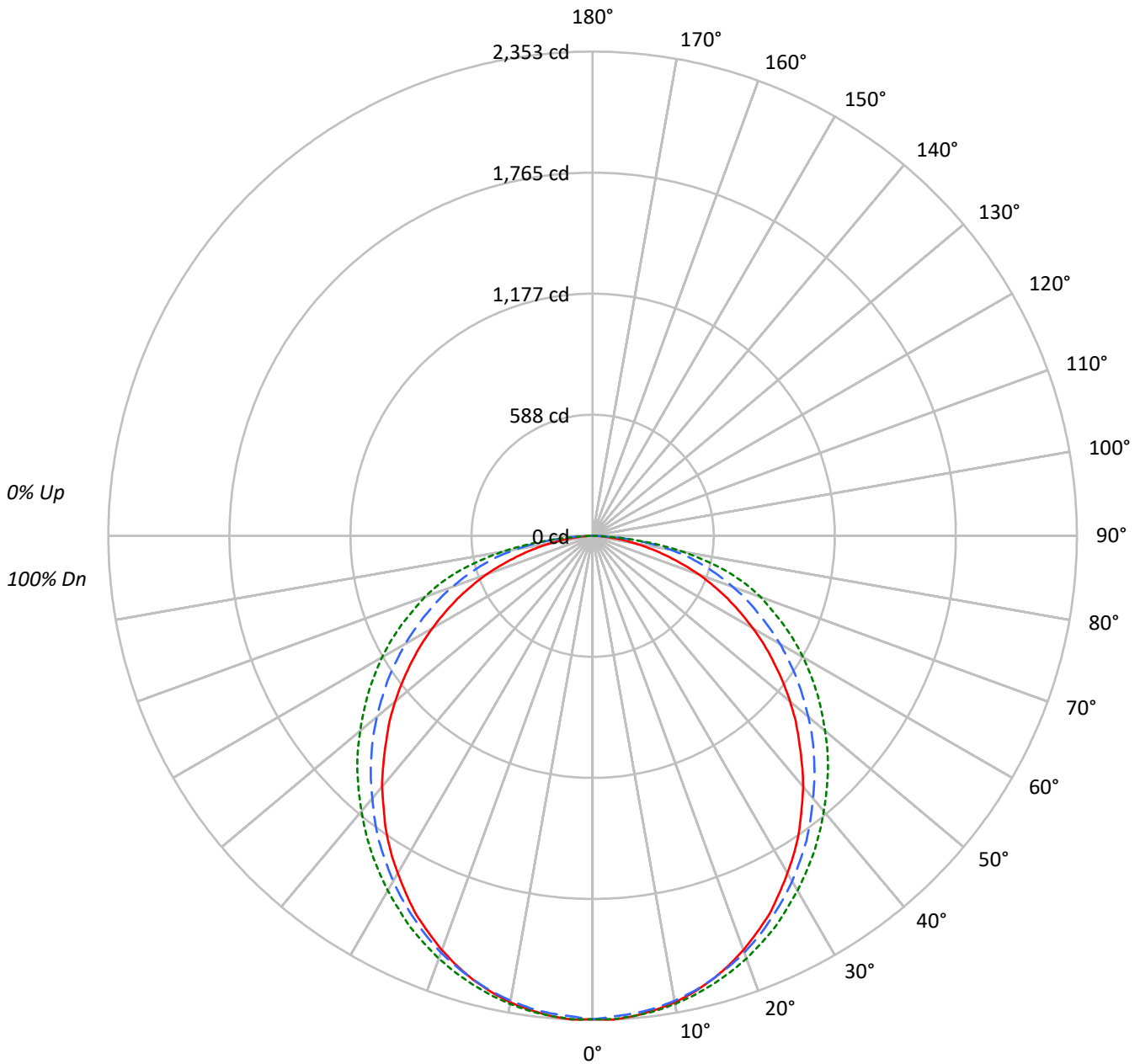
Lumens per Lamp: N/A  
Luminaire Lumens: 6800.0 lumens  
Efficiency: N/A  
Efficacy: 121.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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					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	105	101	97	93	97	93	90	93	90	87	89	87	85	83								
2	98	89	82	76	95	88	81	75	84	78	74	81	76	72	78	74	70	68								
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57								
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48								
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42								
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37								
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32								
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29								
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26								
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23								

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

	0°	45°	90°
0°	3316	3316	3316
5°	3318	3301	3318
10°	3300	3289	3311
15°	3266	3265	3297
20°	3218	3237	3283
25°	3162	3197	3267
30°	3085	3160	3244
35°	3015	3119	3231
40°	2933	3068	3218
45°	2833	3037	3228
50°	2747	3003	3237
55°	2646	2982	3274
60°	2537	2968	3334
65°	2417	2957	3420
70°	2276	2987	3576
75°	2001	3049	3720
80°	1670	3072	3589
85°	1193	2631	2667



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	222.1	3.3
10°-20°	632.7	9.3
20°-30°	949.2	14.0
30°-40°	1133.3	16.7
40°-50°	1173.8	17.3
50°-60°	1080.6	15.9
60°-70°	871.7	12.8
70°-80°	569.5	8.4
80°-90°	166.9	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°	1804.0	26.5
0°-40°	2937.3	43.2
0°-60°	5191.8	76.3
0°-90°	6800.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6800.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2350	2350	2350	2350	2350	
5°	2342	2340	2330	2343	2342	222
15°	2236	2236	2234	2256	2256	630
25°	2030	2035	2053	2090	2098	933
35°	1750	1765	1810	1860	1875	1093
45°	1419	1455	1522	1590	1617	1097
55°	1076	1122	1212	1301	1330	963
65°	724	774	886	986	1024	716
75°	367	436	559	656	682	392
85°	74	127	162	172	165	91
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2349.8	2349.8	2349.8	2349.8	2349.8
2.5°	2353.1	2349.8	2337.7	2352.0	2350.9
5°	2342.1	2339.9	2330.0	2343.2	2342.1
7.5°	2324.5	2323.5	2315.8	2330.0	2330.0
10°	2302.6	2300.4	2294.9	2311.4	2310.3
12.5°	2271.9	2270.8	2267.5	2287.3	2286.2
15°	2235.5	2235.5	2234.4	2256.5	2256.5
17.5°	2191.6	2192.7	2197.1	2222.3	2223.4
20°	2142.3	2146.6	2155.4	2183.9	2186.1
22.5°	2086.1	2094.9	2106.9	2139.0	2142.3
25°	2030.2	2034.6	2053.2	2090.5	2098.2
27.5°	1961.9	1973.1	1997.3	2035.7	2043.3
30°	1892.8	1908.2	1938.9	1978.6	1990.7
32.5°	1824.6	1838.0	1874.2	1919.2	1933.4
35°	1750.0	1765.4	1810.4	1859.9	1875.3
37.5°	1667.6	1691.7	1739.1	1796.1	1812.6
40°	1591.9	1613.8	1665.4	1729.2	1746.8
42.5°	1505.0	1532.4	1595.2	1659.9	1681.8
45°	1419.3	1454.6	1521.5	1589.7	1617.1
47.5°	1339.2	1367.7	1446.9	1523.7	1547.8
50°	1251.2	1284.1	1367.7	1449.1	1474.3
52.5°	1164.6	1204.1	1288.5	1374.3	1401.7
55°	1075.5	1121.6	1211.7	1300.8	1330.4
57.5°	989.7	1036.0	1129.3	1223.8	1254.5
60°	898.7	948.1	1051.4	1142.4	1181.0
62.5°	810.8	860.1	968.9	1067.8	1104.0
65°	723.9	773.5	885.6	986.5	1024.0
67.5°	633.9	687.7	807.5	905.3	941.5
70°	551.5	603.0	723.9	828.3	866.7
72.5°	456.9	518.6	641.6	744.7	781.1
75°	367.0	436.1	559.1	655.9	682.2
77.5°	283.4	352.7	475.6	548.2	564.6
80°	205.5	275.7	378.0	428.4	441.6
82.5°	132.9	205.5	273.5	307.5	311.9
85°	73.7	127.4	162.5	172.4	164.7
87.5°	26.3	48.3	47.2	38.4	30.7
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)