

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: P881006

Luminaire Tested: **24CZ2-70VHE-HRP-B2750-W2D-5000K**

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: P881006  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474369)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-70VHE-HRP-B2750-W2D-5000K  
Description: 2X4 7000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND HRP LENS  
  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

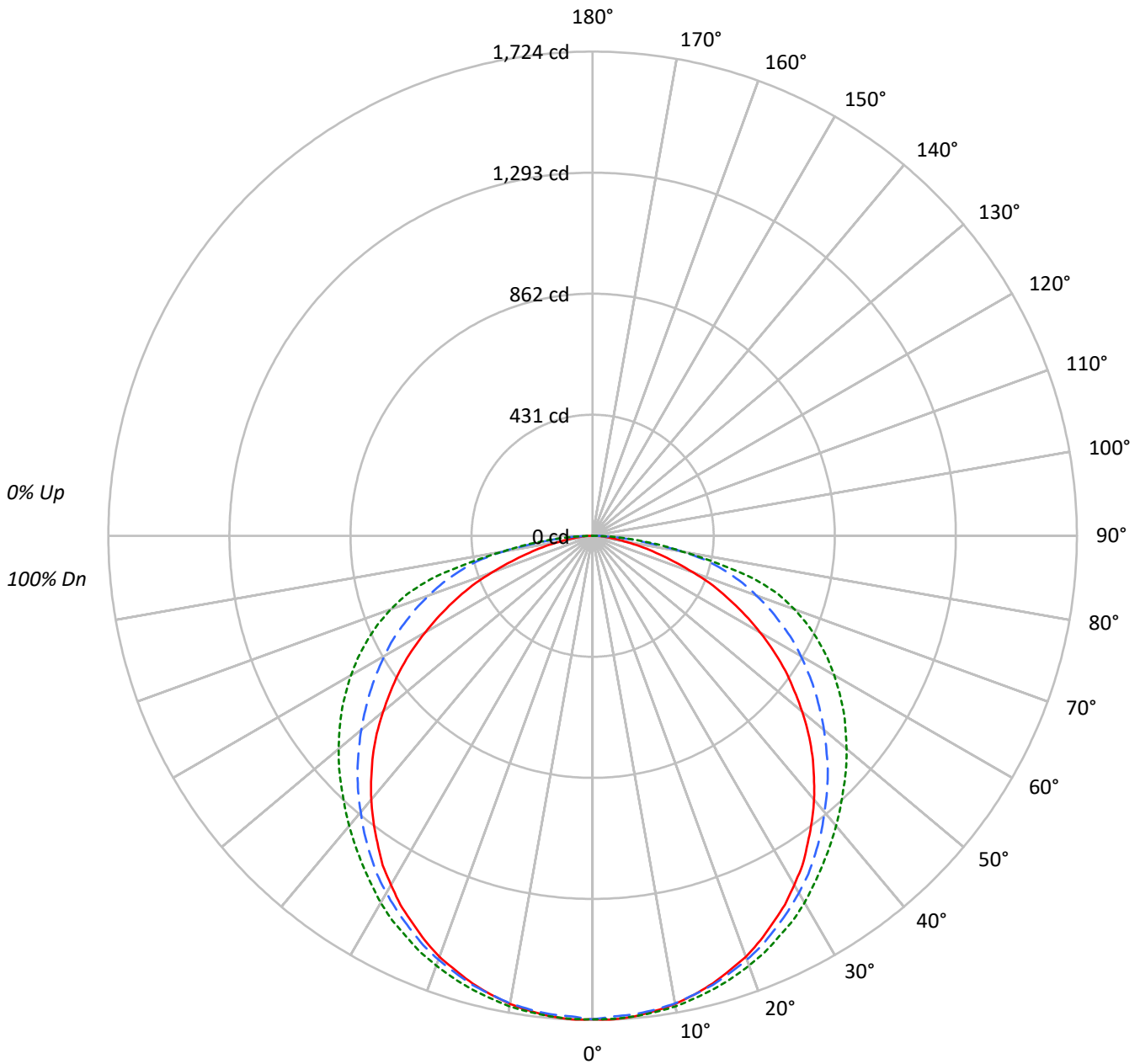
Lumens per Lamp: N/A  
Luminaire Lumens: 5307.0 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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	101	96	93	96	93	90	92	90	87	89	86	84	82																			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56																			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	42	38	36																			
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28																			
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25																			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23																			

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

	0°	45°	90°
0°	2430	2430	2430
5°	2433	2424	2433
10°	2426	2423	2439
15°	2412	2419	2441
20°	2396	2412	2446
25°	2366	2401	2449
30°	2339	2393	2459
35°	2301	2381	2461
40°	2259	2366	2484
45°	2208	2363	2523
50°	2137	2361	2591
55°	2061	2378	2685
60°	1944	2414	2803
65°	1795	2471	2961
70°	1568	2557	3153
75°	1272	2689	3259
80°	940	2637	2637
85°	721	1943	2194



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.1	3.1
10°-20°	468.4	8.8
20°-30°	713.1	13.4
30°-40°	865.8	16.3
40°-50°	914.8	17.2
50°-60°	863.2	16.3
60°-70°	717.7	13.5
70°-80°	472.2	8.9
80°-90°	128.7	2.4
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°	1344.6	25.3
0°-40°	2210.4	41.7
0°-60°	3988.4	75.2
0°-90°	5307.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5307.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1722	1722	1722	1722	1722	
5°	1718	1718	1711	1718	1718	163
15°	1651	1653	1655	1671	1671	466
25°	1520	1528	1542	1569	1573	701
35°	1335	1351	1382	1418	1429	836
45°	1106	1129	1184	1242	1264	852
55°	838	873	966	1058	1091	746
65°	538	600	740	849	887	531
75°	233	340	493	584	598	251
85°	44	98	120	133	136	54
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1721.9	1721.9	1721.9	1721.9	1721.9
2.5°	1724.0	1721.9	1712.9	1721.9	1721.9
5°	1717.5	1717.5	1710.7	1717.5	1717.5
7.5°	1706.3	1706.3	1701.7	1710.7	1710.7
10°	1692.9	1692.9	1690.8	1701.7	1701.7
12.5°	1673.0	1675.0	1673.0	1686.2	1686.2
15°	1650.7	1652.9	1655.3	1670.8	1670.8
17.5°	1622.0	1626.4	1630.8	1648.5	1650.7
20°	1595.3	1597.3	1606.2	1626.4	1628.6
22.5°	1559.8	1566.4	1577.5	1597.3	1604.3
25°	1519.5	1528.5	1541.9	1568.6	1572.9
27.5°	1481.9	1488.6	1506.4	1535.3	1544.3
30°	1435.2	1446.4	1468.5	1497.4	1508.6
32.5°	1390.8	1401.9	1428.6	1459.5	1468.5
35°	1335.4	1350.9	1381.8	1417.5	1428.6
37.5°	1281.9	1297.5	1335.4	1375.2	1388.8
40°	1226.3	1244.0	1284.3	1330.8	1348.5
42.5°	1166.3	1190.8	1235.3	1286.3	1306.4
45°	1106.3	1128.6	1184.0	1241.8	1264.2
47.5°	1042.1	1068.9	1128.6	1197.6	1224.3
50°	973.2	1006.4	1075.4	1150.7	1179.9
52.5°	904.4	942.1	1019.8	1104.1	1135.4
55°	837.6	873.1	966.4	1057.7	1091.0
57.5°	764.2	808.9	911.0	1008.6	1042.1
60°	688.7	737.8	855.3	957.4	993.1
62.5°	613.1	668.8	801.9	904.4	942.1
65°	537.6	600.0	739.9	848.8	886.7
67.5°	464.2	533.2	682.1	791.0	828.6
70°	379.9	466.7	619.7	726.6	764.2
72.5°	302.2	402.3	559.7	660.0	693.3
75°	233.2	340.1	493.1	584.2	597.6
77.5°	171.0	277.7	424.4	455.3	457.7
80°	115.6	222.0	324.5	319.9	324.5
82.5°	75.5	166.6	204.3	228.8	231.0
85°	44.5	97.9	120.0	133.4	135.5
87.5°	22.1	33.3	42.3	44.5	48.8
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)