

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: P881003

Luminaire Tested: **24CZ2-70VHE-HRP-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: P881003
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-3000K
Description: 2X4 7000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

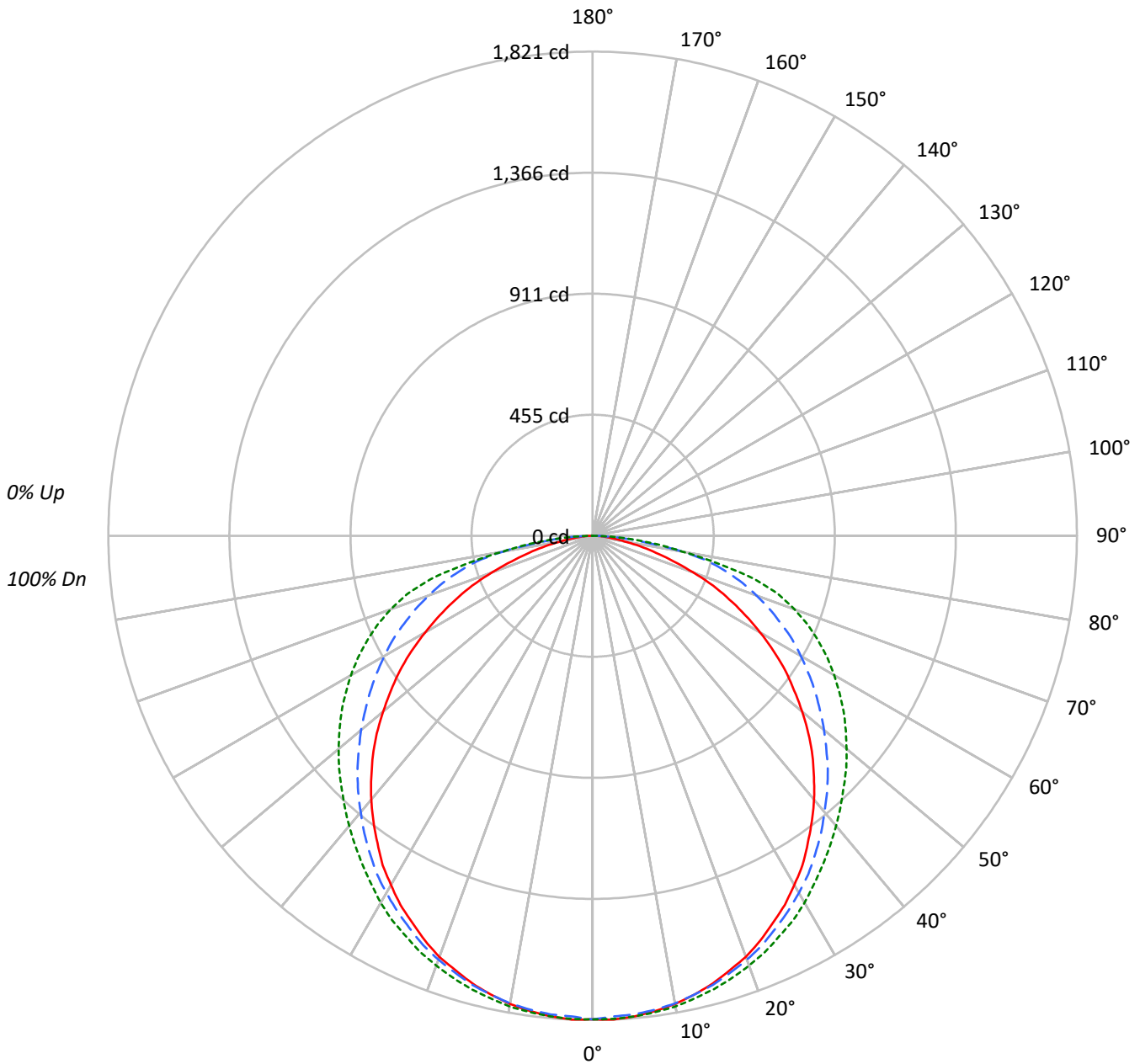
Lumens per Lamp: N/A
Luminaire Lumens: 5606.0 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P881003

CATALOG NUMBER: 24CZ2-70VHE-HRP-B2750-W2D-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P881003

CATALOG NUMBER: 24CZ2-70VHE-HRP-B2750-W2D-3000K

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°	2567	2567	2567
5°	2570	2560	2570
10°	2563	2560	2576
15°	2548	2555	2579
20°	2531	2548	2584
25°	2500	2536	2588
30°	2471	2528	2597
35°	2430	2515	2600
40°	2387	2500	2624
45°	2332	2496	2665
50°	2257	2494	2736
55°	2177	2512	2836
60°	2053	2550	2961
65°	1897	2610	3128
70°	1656	2701	3331
75°	1344	2840	3442
80°	992	2786	2786
85°	761	2053	2319



TEST NUMBER: P881003

CATALOG NUMBER: 24CZ2-70VHE-HRP-B2750-W2D-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.3	3.1
10°-20°	494.8	8.8
20°-30°	753.3	13.4
30°-40°	914.6	16.3
40°-50°	966.3	17.2
50°-60°	911.8	16.3
60°-70°	758.1	13.5
70°-80°	498.8	8.9
80°-90°	136.0	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°	1420.3	25.3
0°-40°	2335.0	41.7
0°-60°	4213.1	75.2
0°-90°	5606.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5606.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1819	1819	1819	1819	1819	
5°	1814	1814	1807	1814	1814	172
15°	1744	1746	1748	1765	1765	492
25°	1605	1615	1629	1657	1662	740
35°	1411	1427	1460	1497	1509	883
45°	1169	1192	1251	1312	1335	900
55°	885	922	1021	1117	1152	788
65°	568	634	782	897	937	561
75°	246	359	521	617	631	266
85°	47	103	127	141	143	57
90°	0	0	0	0	0	



TEST NUMBER: P881003

CATALOG NUMBER: 24CZ2-70VHE-HRP-B2750-W2D-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1818.9	1818.9	1818.9	1818.9	1818.9
2.5°	1821.2	1818.9	1809.4	1818.9	1818.9
5°	1814.2	1814.2	1807.1	1814.2	1814.2
7.5°	1802.4	1802.4	1797.6	1807.1	1807.1
10°	1788.3	1788.3	1786.0	1797.6	1797.6
12.5°	1767.3	1769.4	1767.3	1781.2	1781.2
15°	1743.7	1746.0	1748.5	1765.0	1765.0
17.5°	1713.4	1718.0	1722.6	1741.4	1743.7
20°	1685.2	1687.2	1696.7	1718.0	1720.3
22.5°	1647.7	1654.6	1666.4	1687.2	1694.6
25°	1605.1	1614.6	1628.7	1656.9	1661.6
27.5°	1565.3	1572.5	1591.2	1621.8	1631.3
30°	1516.1	1527.9	1551.2	1581.8	1593.6
32.5°	1469.1	1480.9	1509.1	1541.7	1551.2
35°	1410.6	1427.0	1459.6	1497.3	1509.1
37.5°	1354.1	1370.6	1410.6	1452.7	1467.0
40°	1295.4	1314.1	1356.7	1405.7	1424.5
42.5°	1232.0	1257.9	1304.9	1358.8	1380.1
45°	1168.6	1192.2	1250.7	1311.8	1335.4
47.5°	1100.8	1129.1	1192.2	1265.1	1293.3
50°	1028.0	1063.1	1136.0	1215.6	1246.3
52.5°	955.3	995.1	1077.3	1166.3	1199.4
55°	884.8	922.3	1020.8	1117.3	1152.4
57.5°	807.3	854.5	962.3	1065.5	1100.8
60°	727.5	779.3	903.5	1011.3	1049.0
62.5°	647.7	706.4	847.1	955.3	995.1
65°	567.9	633.8	781.6	896.6	936.6
67.5°	490.4	563.3	720.6	835.5	875.3
70°	401.3	492.9	654.6	767.5	807.3
72.5°	319.2	424.9	591.3	697.2	732.4
75°	246.4	359.2	520.9	617.2	631.3
77.5°	180.7	293.3	448.3	480.9	483.5
80°	122.1	234.6	342.8	338.0	342.8
82.5°	79.8	176.0	215.8	241.7	244.0
85°	47.0	103.4	126.8	140.9	143.2
87.5°	23.4	35.2	44.6	47.0	51.6
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)