

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: P881283

Luminaire Tested: **24CZ2-70VHE-SQR-UNV-B50**

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: P881283
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474669)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-70VHE-SQR-UNV-B50
Description: 2X4 7000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

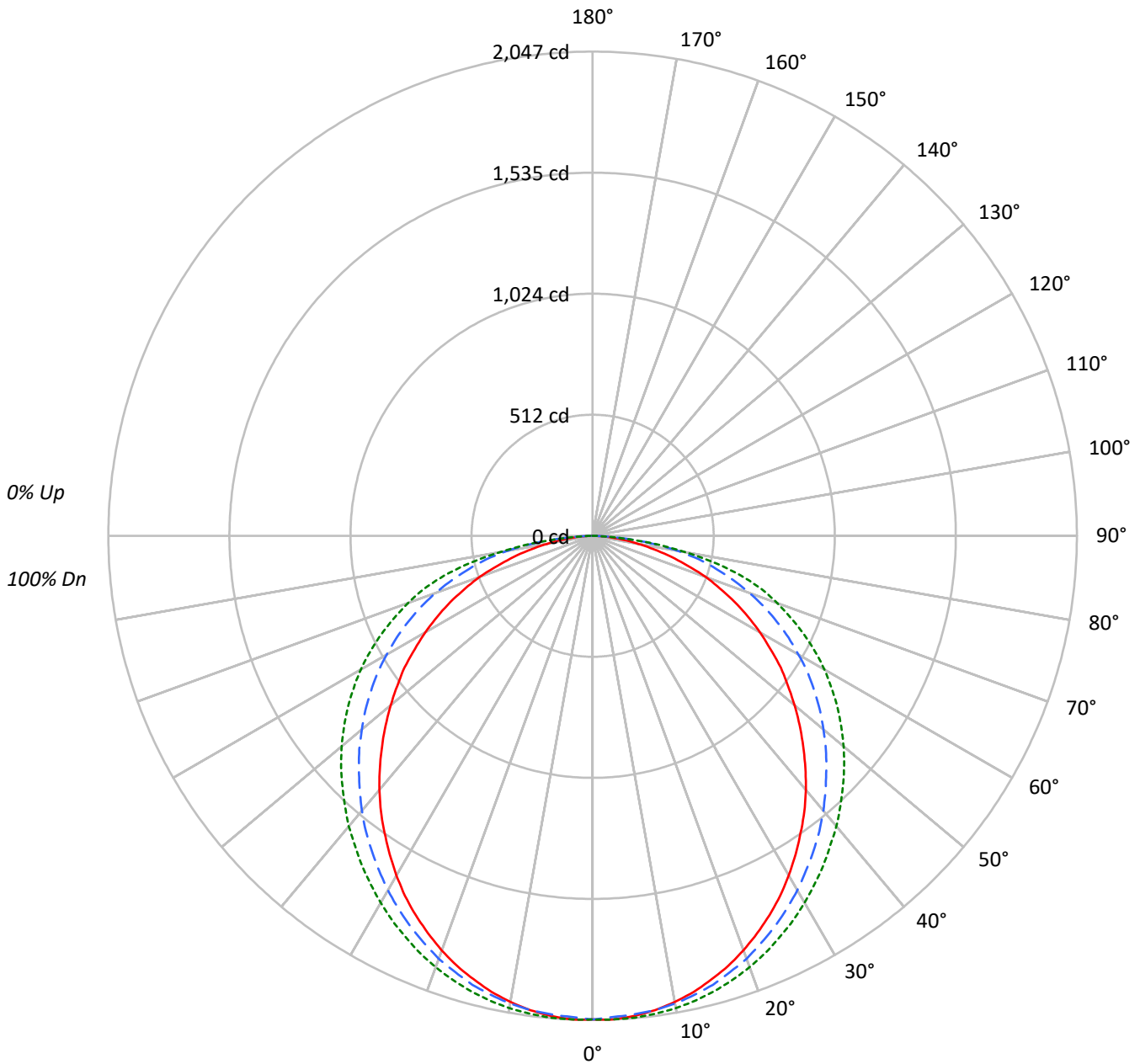
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6226.0 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39
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: P881283
CATALOG NUMBER: 24CZ2-70VHE-SQR-UNV-B50

Luminous Intensity Polar Plot





TEST NUMBER: P881283

CATALOG NUMBER: 24CZ2-70VHE-SQR-UNV-B50

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	87	84	82																			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56																			
4	81	69	59	53	79	67	59	52	65	57	51	62	56	51	60	55	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	39	50	43	38	49	43	38	36																			
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31																			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28																			
9	55	42	33	28	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	25	35	29	24	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2886	2886	2886
5°	2886	2878	2897
10°	2868	2878	2906
15°	2837	2872	2911
20°	2801	2858	2914
25°	2756	2838	2915
30°	2702	2821	2919
35°	2641	2804	2931
40°	2584	2795	2954
45°	2513	2788	2986
50°	2446	2796	3040
55°	2389	2815	3108
60°	2308	2836	3195
65°	2215	2870	3291
70°	2102	2910	3423
75°	1882	2950	3536
80°	1585	2959	3209
85°	1176	2238	2110



TEST NUMBER: P881283

CATALOG NUMBER: 24CZ2-70VHE-SQR-UNV-B50

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.8	3.1
10°-20°	555.4	8.9
20°-30°	840.8	13.5
30°-40°	1017.1	16.3
40°-50°	1073.6	17.2
50°-60°	1012.4	16.3
60°-70°	834.7	13.4
70°-80°	547.6	8.8
80°-90°	150.6	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°	1590.0	25.5
0°-40°	2607.1	41.9
0°-60°	4693.2	75.4
0°-90°	6226.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6226.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2045	2045	2045	2045	2045	
5°	2037	2037	2031	2045	2045	193
15°	1942	1953	1965	1988	1992	548
25°	1770	1791	1822	1860	1872	815
35°	1533	1572	1627	1683	1701	960
45°	1259	1316	1397	1471	1496	972
55°	971	1039	1144	1229	1263	865
65°	663	743	860	951	986	655
75°	345	434	541	627	648	365
85°	73	125	138	134	130	90
90°	0	0	0	0	0	



TEST NUMBER: P881283

CATALOG NUMBER: 24CZ2-70VHE-SQR-UNV-B50

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2045.1	2045.1	2045.1	2045.1	2045.1
2.5°	2047.0	2045.1	2036.2	2048.0	2047.0
5°	2037.0	2037.0	2031.2	2045.1	2045.1
7.5°	2023.1	2024.1	2022.1	2038.0	2038.0
10°	2001.3	2005.3	2008.2	2026.2	2028.1
12.5°	1975.4	1982.4	1988.2	2010.2	2012.3
15°	1941.6	1952.6	1965.4	1988.2	1992.4
17.5°	1906.7	1919.8	1933.7	1963.6	1968.5
20°	1865.0	1880.0	1902.8	1932.7	1940.5
22.5°	1818.3	1839.1	1862.9	1898.8	1908.8
25°	1769.6	1791.4	1822.3	1860.0	1871.9
27.5°	1716.9	1742.6	1777.5	1821.2	1834.1
30°	1658.2	1687.9	1730.8	1777.5	1791.4
32.5°	1596.4	1631.2	1678.9	1730.8	1746.6
35°	1532.9	1572.5	1627.3	1683.1	1700.9
37.5°	1470.0	1509.9	1574.6	1633.3	1650.1
40°	1402.4	1446.2	1516.9	1579.6	1603.4
42.5°	1330.8	1382.7	1457.2	1526.9	1549.7
45°	1259.3	1315.9	1396.6	1471.1	1496.0
47.5°	1186.6	1249.3	1337.9	1413.4	1442.2
50°	1114.0	1180.6	1273.2	1354.7	1384.6
52.5°	1040.4	1110.1	1210.5	1297.0	1324.0
55°	970.9	1039.4	1143.9	1229.4	1263.2
57.5°	890.2	967.8	1078.1	1164.9	1197.6
60°	817.6	893.3	1004.7	1096.2	1131.9
62.5°	739.0	816.5	934.0	1025.5	1060.3
65°	663.4	743.1	859.5	951.0	985.6
67.5°	581.9	665.5	784.8	873.4	907.2
70°	509.3	587.9	705.1	795.8	829.6
72.5°	420.7	510.3	622.6	712.2	748.9
75°	345.2	433.6	541.0	626.7	648.5
77.5°	265.5	354.1	460.6	516.1	531.1
80°	195.0	278.4	364.1	394.0	394.8
82.5°	131.3	205.0	253.7	268.7	266.6
85°	72.6	125.3	138.2	134.2	130.3
87.5°	29.9	41.7	33.8	23.9	18.9
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)