

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: P881276

Luminaire Tested: **24CZ2-70VHE-RDP-UNV-B40**

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: P881276
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-UNV-B40
Description: 2X4 7000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

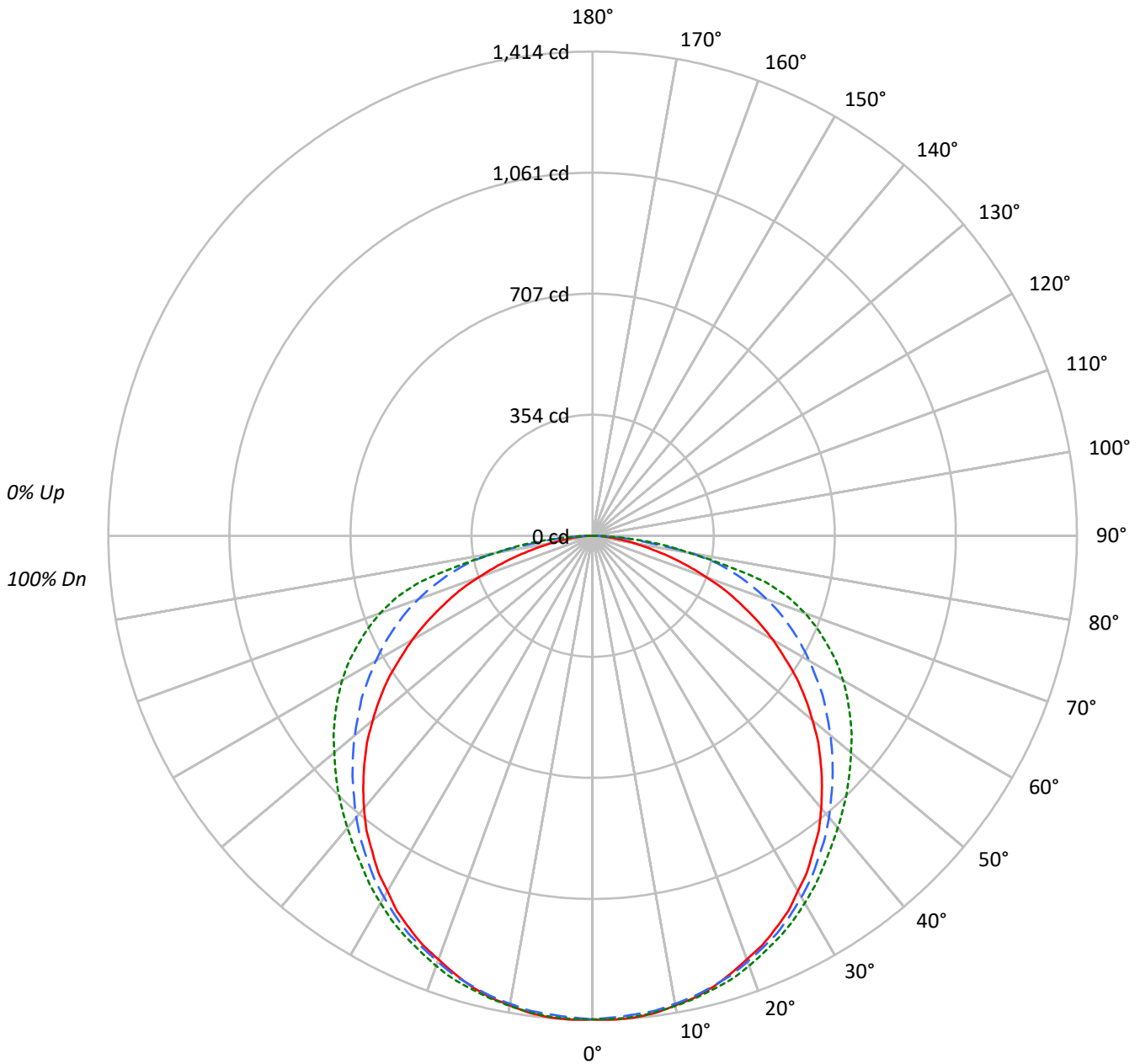
Lumens per Lamp: N/A
Luminaire Lumens: 4491.0 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P881276

CATALOG NUMBER: 24CZ2-70VHE-RDP-UNV-B40

Luminous Intensity Polar Plot





TEST NUMBER: P881276

CATALOG NUMBER: 24CZ2-70VHE-RDP-UNV-B40

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°	1993	1993	1993
5°	2001	1988	1998
10°	1995	1989	1998
15°	1992	1989	2002
20°	1977	1987	2008
25°	1970	1991	2012
30°	1953	1986	2019
35°	1934	1980	2026
40°	1913	1978	2052
45°	1881	1978	2098
50°	1839	1991	2162
55°	1792	2023	2258
60°	1717	2063	2383
65°	1607	2135	2529
70°	1461	2234	2721
75°	1238	2357	2843
80°	978	2371	2298
85°	722	1804	2023



TEST NUMBER: P881276

CATALOG NUMBER: 24CZ2-70VHE-RDP-UNV-B40

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.0	3.0
10°-20°	385.6	8.6
20°-30°	589.6	13.1
30°-40°	720.7	16.0
40°-50°	768.2	17.1
50°-60°	734.5	16.4
60°-70°	622.2	13.9
70°-80°	418.2	9.3
80°-90°	118.0	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°	1109.2	24.7
0°-40°	1829.9	40.7
0°-60°	3332.6	74.2
0°-90°	4491.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4491.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1412	1412	1412	1412	1412	
5°	1412	1410	1404	1410	1410	134
15°	1363	1363	1361	1372	1370	384
25°	1265	1270	1279	1290	1292	583
35°	1123	1132	1149	1172	1176	703
45°	942	958	991	1034	1051	727
55°	728	755	822	887	918	649
65°	481	530	639	724	757	478
75°	227	310	432	506	521	243
85°	45	91	111	120	125	55
90°	0	0	0	0	0	



TEST NUMBER: P881276

CATALOG NUMBER: 24CZ2-70VHE-RDP-UNV-B40

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1412.4	1412.4	1412.4	1412.4	1412.4
2.5°	1414.5	1414.5	1407.8	1412.4	1412.4
5°	1412.4	1410.2	1403.5	1410.2	1410.2
7.5°	1405.6	1403.5	1398.9	1405.6	1403.5
10°	1392.4	1392.4	1387.8	1394.5	1394.5
12.5°	1381.0	1378.9	1376.7	1385.6	1383.4
15°	1363.2	1363.2	1361.0	1372.1	1370.0
17.5°	1341.0	1343.2	1345.6	1354.5	1356.7
20°	1316.4	1321.0	1323.2	1336.7	1336.7
22.5°	1294.3	1296.4	1301.0	1314.3	1314.3
25°	1265.3	1269.7	1278.6	1289.7	1292.1
27.5°	1236.2	1238.6	1249.7	1265.3	1267.5
30°	1198.3	1205.1	1218.6	1236.2	1238.6
32.5°	1165.0	1171.6	1187.2	1205.1	1209.6
35°	1122.6	1131.6	1149.4	1171.6	1176.1
37.5°	1084.8	1091.3	1113.7	1138.3	1144.8
40°	1038.2	1051.3	1073.7	1102.6	1113.7
42.5°	991.2	1004.7	1031.5	1069.1	1082.4
45°	942.3	958.0	991.2	1033.7	1051.3
47.5°	893.4	911.2	949.0	998.0	1018.0
50°	837.5	859.9	906.6	962.3	984.7
52.5°	784.2	810.9	862.0	924.5	953.4
55°	728.3	755.0	822.0	886.6	917.7
57.5°	666.1	701.5	775.2	848.8	882.1
60°	608.2	641.5	730.7	810.9	844.2
62.5°	545.8	590.4	686.1	770.7	804.2
65°	481.2	530.3	639.3	723.9	757.4
67.5°	423.3	476.8	592.5	677.1	710.4
70°	354.1	420.9	541.4	625.8	659.3
72.5°	289.5	363.0	487.9	570.3	601.4
75°	227.1	309.5	432.2	505.7	521.4
77.5°	169.4	256.0	374.1	405.5	394.4
80°	120.3	205.1	291.7	276.0	282.8
82.5°	78.1	156.0	180.5	205.1	211.4
85°	44.6	91.4	111.4	120.3	124.9
87.5°	20.0	33.5	44.6	44.6	42.4
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)