

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: P843104

Luminaire Tested: **24CZ2-50-RDP-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843104
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P274775)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-50-RDP-UNV-B40
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Summary

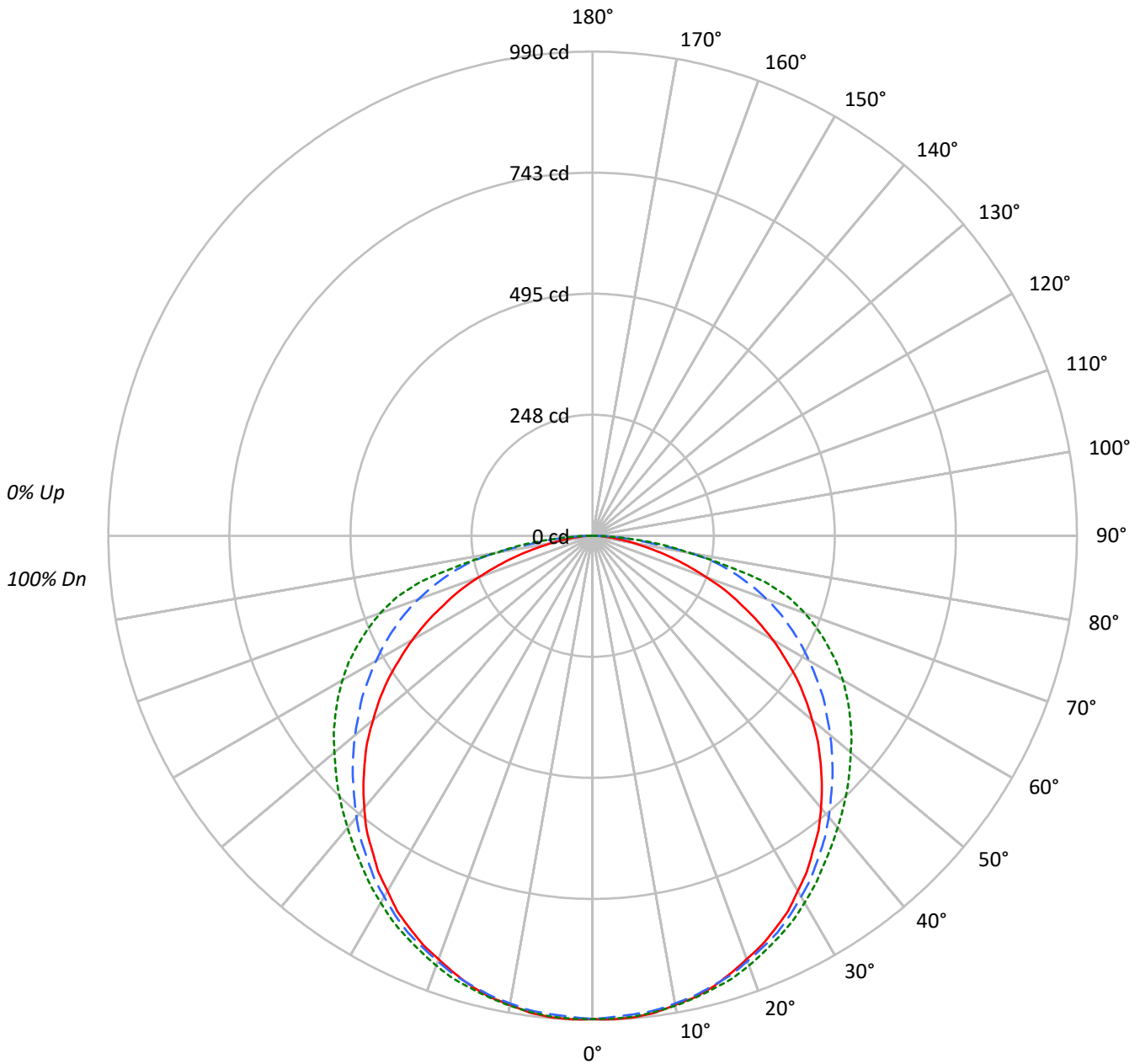
Lumens per Lamp: N/A
Luminaire Lumens: 3142.0 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 40
Input Voltage (V): NR
Input Current (A_{in}): 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: P843104

CATALOG NUMBER: 24CZ2-50-RDP-UNV-B40

Luminous Intensity Polar Plot





TEST NUMBER: P843104

CATALOG NUMBER: 24CZ2-50-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°	1395	1395	1395
5°	1400	1391	1398
10°	1396	1392	1398
15°	1394	1391	1400
20°	1383	1390	1404
25°	1379	1393	1408
30°	1366	1389	1412
35°	1353	1385	1418
40°	1338	1384	1436
45°	1316	1384	1468
50°	1286	1392	1513
55°	1254	1415	1580
60°	1201	1443	1667
65°	1124	1493	1770
70°	1023	1563	1904
75°	867	1649	1989
80°	684	1659	1608
85°	505	1263	1412



TEST NUMBER: P843104

CATALOG NUMBER: 24CZ2-50-RDP-UNV-B40

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.7	3.0
10°-20°	269.8	8.6
20°-30°	412.5	13.1
30°-40°	504.3	16.0
40°-50°	537.4	17.1
50°-60°	513.9	16.4
60°-70°	435.3	13.9
70°-80°	292.6	9.3
80°-90°	82.5	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°	776.0	24.7
0°-40°	1280.3	40.7
0°-60°	2331.6	74.2
0°-90°	3142.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3142.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	988	988	988	988	988	
5°	988	987	982	987	987	94
15°	954	954	952	960	958	269
25°	885	888	894	902	904	408
35°	786	792	804	820	823	492
45°	659	670	694	723	736	508
55°	510	528	575	620	642	454
65°	337	371	447	506	530	334
75°	159	217	302	354	365	170
85°	31	64	78	84	87	39
90°	0	0	0	0	0	



TEST NUMBER: P843104

CATALOG NUMBER: 24CZ2-50-RDP-UNV-B40

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	988.1	988.1	988.1	988.1	988.1
2.5°	989.6	989.6	984.9	988.1	988.1
5°	988.1	986.6	981.9	986.6	986.6
7.5°	983.4	981.9	978.7	983.4	981.9
10°	974.0	974.0	971.0	975.7	975.7
12.5°	966.3	964.8	963.1	969.3	967.8
15°	953.9	953.9	952.2	960.1	958.4
17.5°	938.3	939.8	941.3	947.5	949.2
20°	921.0	924.2	925.7	935.1	935.1
22.5°	905.4	907.1	910.1	919.5	919.5
25°	885.3	888.3	894.5	902.4	903.9
27.5°	865.0	866.5	874.4	885.3	886.8
30°	838.5	843.2	852.4	865.0	866.5
32.5°	815.0	819.7	830.6	843.2	846.2
35°	785.5	791.7	804.1	819.7	822.9
37.5°	759.0	763.7	779.3	796.4	801.1
40°	726.3	735.5	751.1	771.4	779.3
42.5°	693.6	702.8	721.6	748.1	757.5
45°	659.2	670.1	693.6	723.1	735.5
47.5°	625.0	637.4	663.9	698.1	712.2
50°	585.9	601.5	634.2	673.3	688.9
52.5°	548.5	567.3	603.2	646.8	667.1
55°	509.6	528.2	575.0	620.3	642.1
57.5°	466.0	490.8	542.3	593.8	617.1
60°	425.4	448.8	511.1	567.3	590.6
62.5°	381.9	413.0	479.9	539.1	562.6
65°	336.6	371.0	447.2	506.4	529.9
67.5°	296.2	333.6	414.5	473.7	497.2
70°	247.9	294.5	378.7	437.9	461.3
72.5°	202.6	254.1	341.3	399.0	420.8
75°	159.0	216.7	302.4	353.9	364.8
77.5°	118.4	179.3	261.8	283.6	275.9
80°	84.2	143.4	204.1	193.2	197.9
82.5°	54.5	109.2	126.3	143.4	148.1
85°	31.2	63.9	78.0	84.2	87.2
87.5°	14.1	23.3	31.2	31.2	29.7
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)