

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: P843048

Luminaire Tested: **24CZ2-40-S-UNV-B50**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843048
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272125)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-40-S-UNV-B50
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Summary

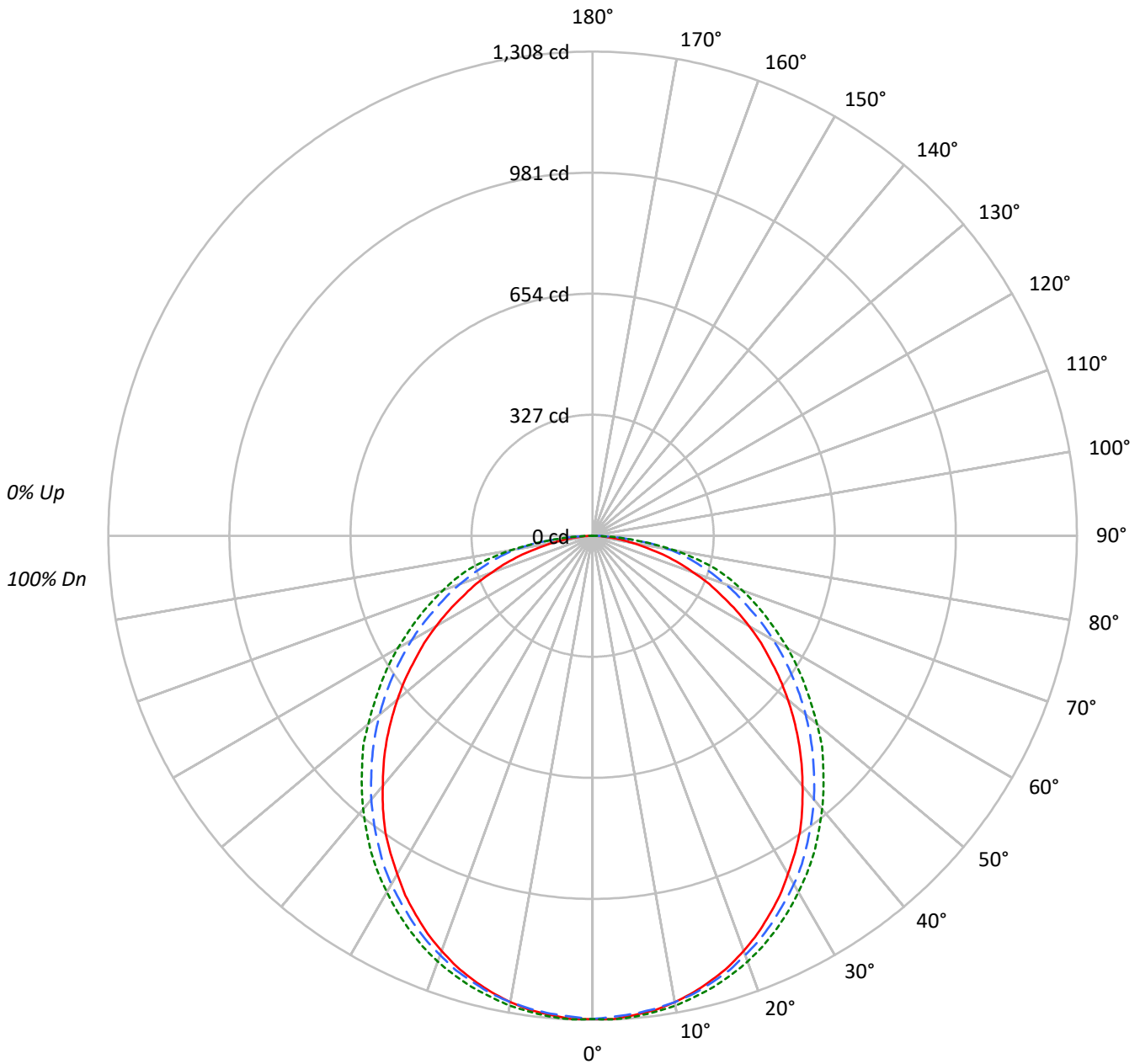
Lumens per Lamp: N/A
Luminaire Lumens: 3716.0 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 31
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: P843048

CATALOG NUMBER: 24CZ2-40-S-UNV-B50

Luminous Intensity Polar Plot





TEST NUMBER: P843048

CATALOG NUMBER: 24CZ2-40-S-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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83																			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69																			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37																			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26																			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1843	1843	1843
5°	1841	1836	1848
10°	1834	1834	1847
15°	1816	1825	1844
20°	1792	1810	1838
25°	1759	1792	1827
30°	1720	1772	1812
35°	1682	1743	1798
40°	1624	1714	1777
45°	1571	1680	1758
50°	1511	1648	1736
55°	1443	1618	1719
60°	1376	1593	1716
65°	1289	1565	1726
70°	1193	1573	1773
75°	1069	1603	1873
80°	863	1698	1832
85°	649	1490	1453



TEST NUMBER: P843048

CATALOG NUMBER: 24CZ2-40-S-UNV-B50

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.6	3.3
10°-20°	353.1	9.5
20°-30°	530.8	14.3
30°-40°	632.3	17.0
40°-50°	647.1	17.4
50°-60°	582.6	15.7
60°-70°	457.6	12.3
70°-80°	296.9	8.0
80°-90°	91.8	2.5
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°	1007.6	27.1
0°-40°	1639.9	44.1
0°-60°	2869.7	77.2
0°-90°	3716.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3716.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1306	1306	1306	1306	1306	
5°	1300	1302	1296	1303	1304	123
15°	1243	1246	1249	1259	1262	350
25°	1130	1139	1151	1170	1173	520
35°	976	988	1012	1036	1043	609
45°	787	806	842	874	881	607
55°	587	613	658	692	699	526
65°	386	416	469	508	517	384
75°	196	234	294	334	343	207
85°	40	74	92	90	90	48
90°	0	0	0	0	0	



TEST NUMBER: P843048

CATALOG NUMBER: 24CZ2-40-S-UNV-B50

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1305.5	1305.5	1305.5	1305.5	1305.5
2.5°	1306.7	1306.7	1300.7	1306.7	1307.8
5°	1299.5	1302.0	1296.0	1303.1	1304.2
7.5°	1292.4	1292.4	1288.9	1296.0	1297.3
10°	1279.5	1280.6	1279.5	1287.7	1288.9
12.5°	1263.0	1265.3	1266.5	1274.8	1275.9
15°	1242.9	1246.5	1248.8	1259.4	1261.9
17.5°	1220.5	1224.0	1229.9	1241.7	1244.1
20°	1193.3	1198.0	1205.1	1220.5	1224.0
22.5°	1163.9	1168.6	1180.4	1194.4	1200.4
25°	1129.6	1139.0	1150.8	1169.7	1173.3
27.5°	1095.3	1103.6	1118.9	1139.0	1143.8
30°	1055.2	1068.2	1087.1	1107.1	1111.8
32.5°	1016.3	1029.2	1051.7	1073.0	1078.8
35°	976.2	988.0	1011.6	1036.3	1043.4
37.5°	930.1	945.4	971.5	996.2	1003.3
40°	881.7	900.6	930.1	956.1	964.3
42.5°	835.6	855.7	885.3	913.6	923.0
45°	787.3	806.2	841.6	873.5	880.6
47.5°	737.7	759.0	796.7	828.5	840.3
50°	688.2	710.6	750.7	783.7	790.8
52.5°	638.5	662.1	704.7	740.1	743.6
55°	586.6	612.7	657.5	691.7	698.8
57.5°	539.4	561.9	610.2	645.6	653.9
60°	487.5	512.3	564.2	597.3	607.8
62.5°	437.9	463.9	518.2	551.2	560.6
65°	386.0	415.5	468.6	507.6	516.9
67.5°	341.2	369.5	426.1	463.9	473.3
70°	289.1	321.1	381.3	420.2	429.6
72.5°	244.3	277.3	337.6	375.3	389.5
75°	196.0	233.7	294.0	334.1	343.4
77.5°	148.8	192.4	253.7	284.4	284.4
80°	106.2	152.3	208.9	223.1	225.4
82.5°	69.7	114.5	154.6	153.4	153.4
85°	40.1	74.4	92.0	89.7	89.7
87.5°	15.4	30.7	33.0	33.0	31.9
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)