

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: P842868

Luminaire Tested: **14CZ2-39-S-UNV-B50**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275670)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-39-S-UNV-B50
Description: 1X4 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Summary

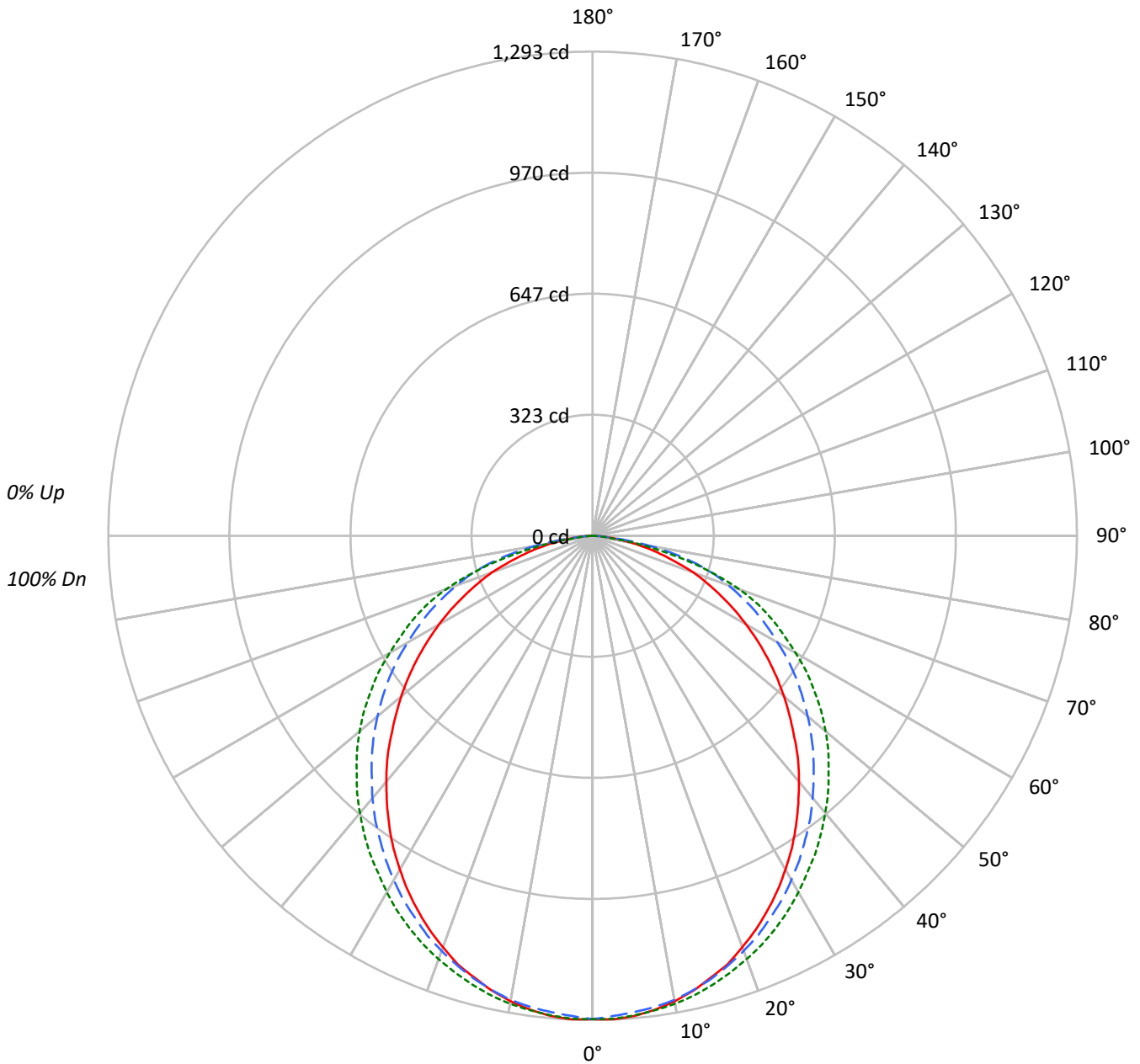
Lumens per Lamp: N/A
Luminaire Lumens: 3616.0 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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: P842868

CATALOG NUMBER: 14CZ2-39-S-UNV-B50

Luminous Intensity Polar Plot





TEST NUMBER: P842868

CATALOG NUMBER: 14CZ2-39-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	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84																			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70																			
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58																			
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50																			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43																			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38																			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33																			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30																			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27																			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3644	3644	3644
5°	3648	3617	3642
10°	3617	3607	3638
15°	3568	3578	3625
20°	3511	3544	3614
25°	3440	3501	3602
30°	3354	3459	3582
35°	3262	3410	3571
40°	3158	3369	3561
45°	3041	3328	3557
50°	2929	3290	3567
55°	2806	3265	3556
60°	2673	3218	3532
65°	2515	3209	3533
70°	2368	3182	3432
75°	2054	3109	2933
80°	1661	2507	1954
85°	1104	868	583



TEST NUMBER: P842868

CATALOG NUMBER: 14CZ2-39-S-UNV-B50

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.9	3.4
10°-20°	346.9	9.6
20°-30°	520.3	14.4
30°-40°	620.6	17.2
40°-50°	641.6	17.7
50°-60°	585.8	16.2
60°-70°	461.0	12.7
70°-80°	268.4	7.4
80°-90°	49.4	1.4
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°	989.1	27.4
0°-40°	1609.7	44.5
0°-60°	2837.2	78.5
0°-90°	3616.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3616.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1291	1291	1291	1291	1291	
5°	1287	1284	1277	1287	1285	122
15°	1221	1223	1224	1241	1241	345
25°	1104	1110	1124	1151	1156	508
35°	947	959	990	1027	1036	592
45°	762	787	834	880	891	588
55°	570	601	663	712	722	510
65°	376	416	480	518	529	374
75°	188	233	285	280	269	200
85°	34	48	27	22	18	44
90°	0	0	0	0	0	



TEST NUMBER: P842868

CATALOG NUMBER: 14CZ2-39-S-UNV-B50

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1290.9	1290.9	1290.9	1290.9	1290.9
2.5°	1292.6	1289.1	1283.6	1292.6	1290.9
5°	1287.3	1283.6	1276.6	1287.3	1285.4
7.5°	1276.6	1272.8	1269.3	1280.1	1278.3
10°	1262.1	1260.3	1258.6	1271.1	1269.3
12.5°	1244.3	1244.3	1242.5	1256.8	1256.8
15°	1221.0	1222.8	1224.5	1240.6	1240.6
17.5°	1199.5	1197.7	1203.0	1221.0	1222.8
20°	1168.9	1172.5	1179.7	1201.2	1203.0
22.5°	1138.4	1142.1	1154.7	1176.2	1181.5
25°	1104.4	1109.8	1124.1	1150.9	1156.4
27.5°	1068.5	1075.8	1095.3	1124.1	1129.4
30°	1029.0	1039.8	1061.3	1093.6	1099.1
32.5°	989.7	1000.4	1027.2	1059.5	1066.8
35°	946.6	959.1	989.7	1027.2	1036.2
37.5°	901.8	917.8	953.9	991.4	1002.2
40°	857.0	875.0	914.3	953.9	966.4
42.5°	812.2	830.2	873.0	917.8	930.6
45°	761.9	787.1	833.7	880.3	891.0
47.5°	713.5	740.6	792.4	839.0	853.5
50°	667.0	693.8	749.3	797.9	812.2
52.5°	618.6	647.2	706.3	756.6	769.1
55°	570.1	600.6	663.4	711.8	722.5
57.5°	521.7	554.0	618.6	665.2	677.7
60°	473.4	507.5	570.1	616.7	625.7
62.5°	424.9	460.7	525.3	566.6	575.6
65°	376.5	415.9	480.4	518.2	529.0
67.5°	330.0	369.3	432.1	467.9	476.9
70°	286.9	322.7	385.5	412.3	415.9
72.5°	233.1	277.9	338.8	353.3	344.2
75°	188.3	233.1	285.1	279.7	268.9
77.5°	143.5	188.3	222.3	204.3	190.0
80°	102.2	147.0	154.2	127.2	120.2
82.5°	66.3	102.2	86.1	66.3	53.8
85°	34.1	48.3	26.8	21.5	18.0
87.5°	10.8	7.2	3.5	3.5	1.8
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)