

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: P842888

Luminaire Tested: **14CZ2-44-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842888
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275502)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-44-UNV-B40
Description: 1X4 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

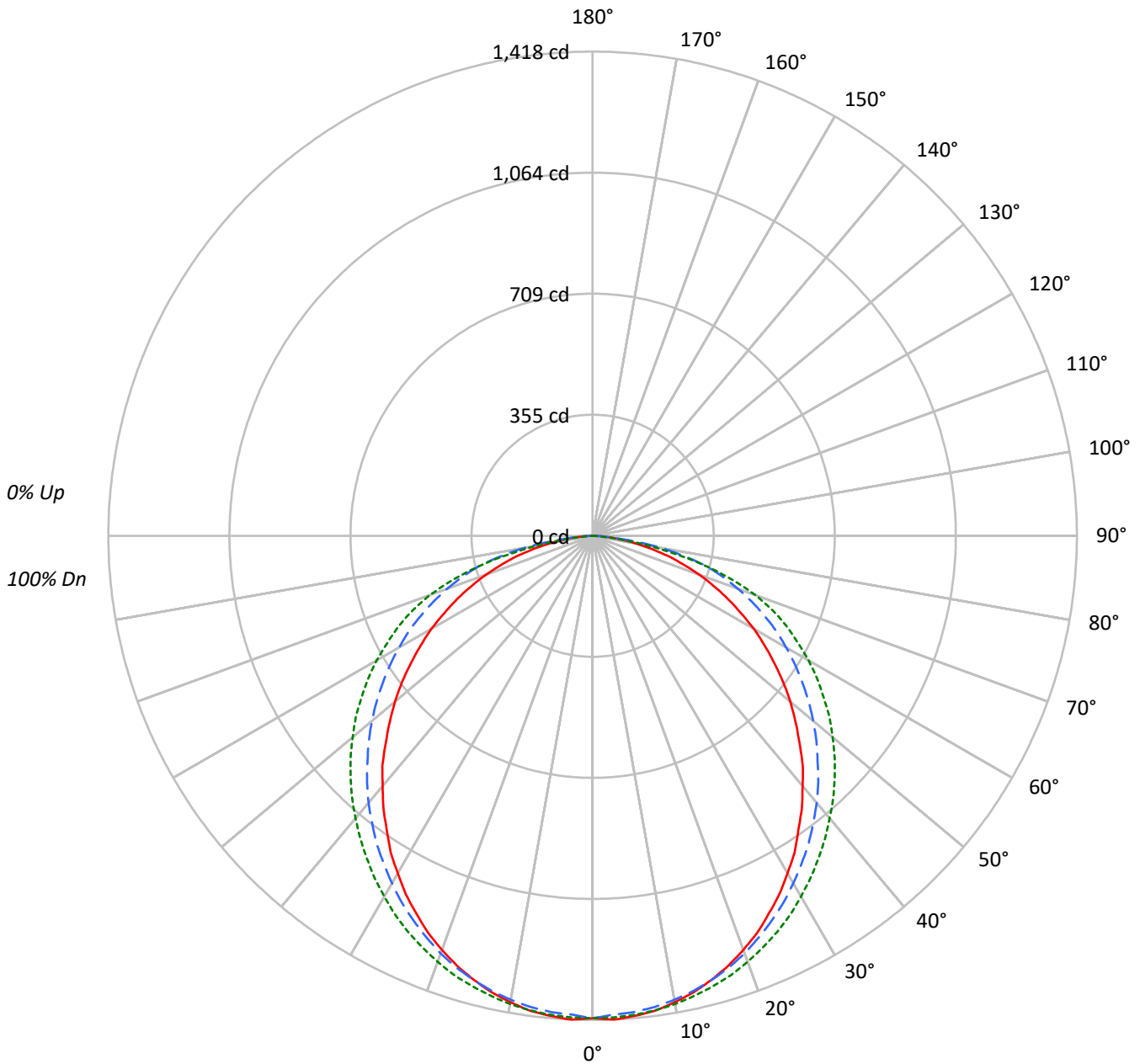
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4101.0 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 36
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

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Luminous Intensity Polar Plot





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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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83																			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	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	79	68	60	53	66	58	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32																			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29																			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3988	3988	3988
5°	4000	3967	3990
10°	3976	3955	3992
15°	3934	3936	3989
20°	3876	3909	3988
25°	3802	3870	3985
30°	3720	3830	3976
35°	3621	3797	3973
40°	3524	3761	3980
45°	3417	3719	4001
50°	3317	3702	4027
55°	3190	3691	4063
60°	3077	3697	4120
65°	2919	3708	4184
70°	2741	3735	4180
75°	2482	3770	3781
80°	2038	3253	2689
85°	1509	1542	619



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.7	3.3
10°-20°	381.9	9.3
20°-30°	575.3	14.0
30°-40°	690.4	16.8
40°-50°	719.5	17.5
50°-60°	666.1	16.2
60°-70°	538.2	13.1
70°-80°	328.1	8.0
80°-90°	67.7	1.7
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°	1090.9	26.6
0°-40°	1781.3	43.4
0°-60°	3166.9	77.2
0°-90°	4101.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4101.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1413	1413	1413	1413	1413	
5°	1412	1408	1400	1410	1408	134
15°	1346	1347	1347	1365	1365	379
25°	1221	1228	1243	1274	1279	563
35°	1051	1067	1102	1142	1153	658
45°	856	882	932	984	1002	662
55°	648	682	750	808	826	581
65°	437	480	555	611	626	432
75°	228	278	346	351	347	239
85°	47	70	48	26	19	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1412.8	1412.8	1412.8	1412.8	1412.8
2.5°	1418.4	1413.8	1403.8	1413.8	1411.8
5°	1411.8	1408.3	1400.0	1410.1	1408.3
7.5°	1402.8	1399.0	1391.7	1403.8	1401.8
10°	1387.2	1385.4	1379.9	1393.7	1392.7
12.5°	1369.0	1368.0	1365.2	1380.9	1379.9
15°	1346.1	1346.9	1346.9	1365.2	1365.2
17.5°	1320.4	1322.2	1326.0	1346.1	1348.9
20°	1290.2	1294.0	1301.3	1324.2	1327.7
22.5°	1259.3	1262.0	1272.9	1300.3	1304.1
25°	1220.7	1228.0	1242.6	1273.9	1279.4
27.5°	1184.2	1190.5	1210.7	1242.6	1252.0
30°	1141.2	1151.3	1175.2	1209.9	1220.0
32.5°	1100.2	1111.0	1138.4	1178.7	1187.8
35°	1050.8	1067.2	1101.9	1142.2	1153.0
37.5°	1006.0	1021.4	1060.9	1104.7	1117.5
40°	956.4	975.8	1020.6	1067.2	1080.0
42.5°	910.8	929.0	977.6	1025.1	1042.5
45°	856.0	881.6	931.7	983.8	1002.2
47.5°	805.6	831.3	888.9	944.6	961.2
50°	755.3	782.7	843.1	900.8	917.1
52.5°	703.1	732.6	797.3	854.9	874.3
55°	648.3	682.2	750.0	808.4	825.7
57.5°	596.1	630.9	703.1	762.6	779.9
60°	545.0	580.8	654.8	711.4	729.8
62.5°	488.4	530.4	607.2	662.9	676.7
65°	437.0	480.1	555.1	610.7	626.4
67.5°	383.2	429.7	504.8	555.9	570.7
70°	332.1	380.4	452.6	500.2	506.5
72.5°	277.2	326.5	399.5	429.7	429.7
75°	227.6	277.9	345.7	351.2	346.7
77.5°	173.7	229.6	273.4	262.3	251.5
80°	125.4	180.3	200.1	180.3	165.4
82.5°	84.1	130.7	120.6	95.9	85.1
85°	46.6	69.5	47.6	26.4	19.1
87.5°	17.4	15.6	4.5	4.5	4.5
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)