

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: P842889

Luminaire Tested: **14CZ2-44-UNV-B50**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842889
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-B50
Description: 1X4 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

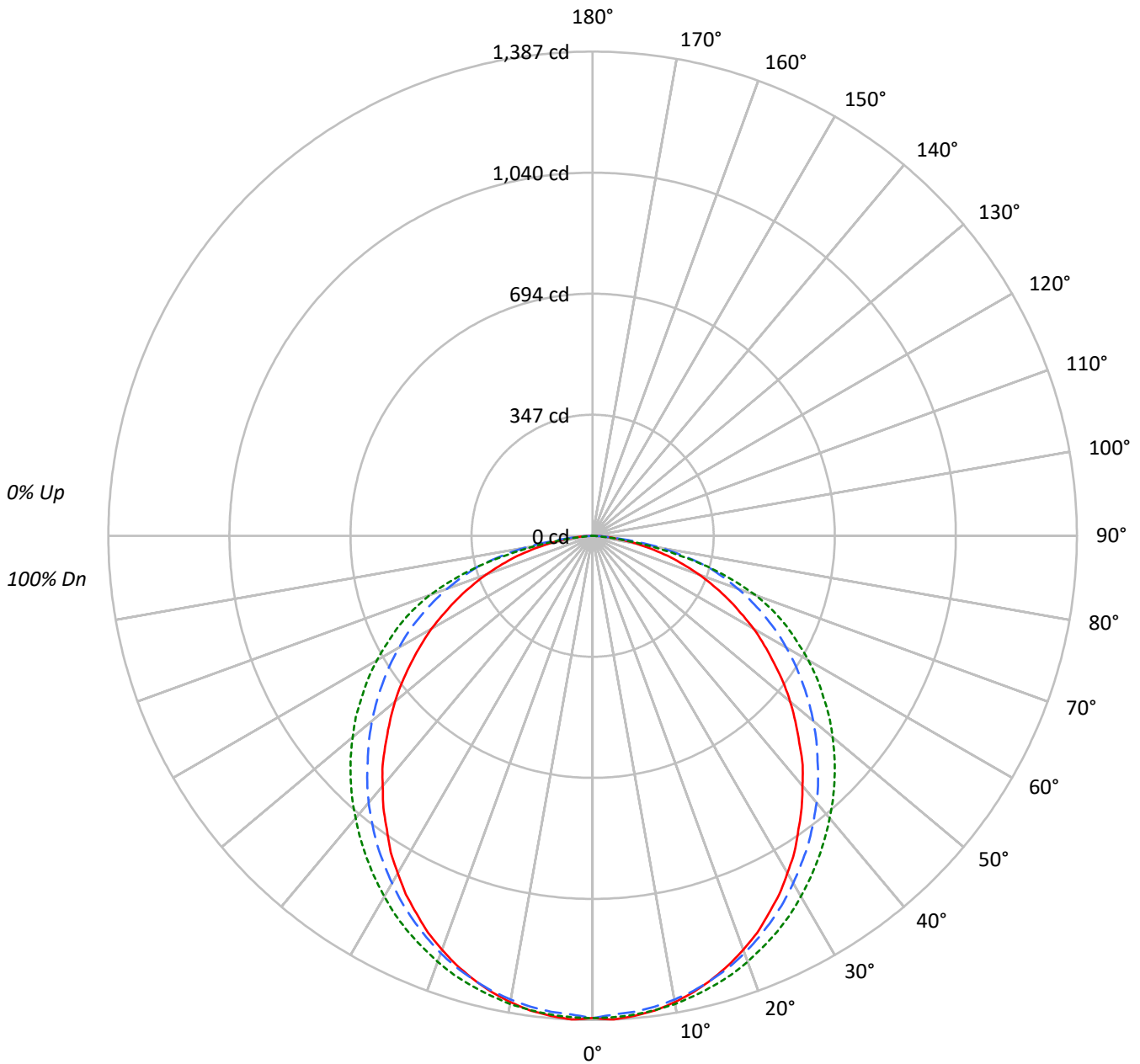
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4010.0 lumens
Efficiency: N/A
Efficacy: 111.4 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 (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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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°	3900	3900	3900
5°	3912	3879	3902
10°	3888	3867	3903
15°	3846	3849	3901
20°	3790	3822	3900
25°	3718	3784	3896
30°	3637	3745	3888
35°	3541	3713	3885
40°	3446	3677	3891
45°	3341	3637	3912
50°	3243	3620	3938
55°	3120	3609	3973
60°	3008	3615	4029
65°	2854	3625	4091
70°	2680	3653	4088
75°	2427	3686	3697
80°	1993	3181	2628
85°	1474	1506	606



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.7	3.3
10°-20°	373.4	9.3
20°-30°	562.5	14.0
30°-40°	675.1	16.8
40°-50°	703.6	17.5
50°-60°	651.3	16.2
60°-70°	526.3	13.1
70°-80°	320.9	8.0
80°-90°	66.2	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°	1066.7	26.6
0°-40°	1741.7	43.4
0°-60°	3096.6	77.2
0°-90°	4010.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4010.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1382	1382	1382	1382	1382	
5°	1380	1377	1369	1379	1377	131
15°	1316	1317	1317	1335	1335	371
25°	1194	1201	1215	1246	1251	550
35°	1028	1044	1078	1117	1127	644
45°	837	862	911	962	980	647
55°	634	667	733	790	807	568
65°	427	469	543	597	612	423
75°	222	272	338	343	339	234
85°	46	68	46	26	19	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1381.5	1381.5	1381.5	1381.5	1381.5
2.5°	1386.9	1382.5	1372.6	1382.5	1380.5
5°	1380.5	1377.0	1368.9	1378.8	1377.0
7.5°	1371.6	1367.9	1360.8	1372.6	1370.6
10°	1356.4	1354.6	1349.2	1362.8	1361.8
12.5°	1338.6	1337.7	1335.0	1350.2	1349.2
15°	1316.2	1317.0	1317.0	1335.0	1335.0
17.5°	1291.1	1292.9	1296.6	1316.2	1319.0
20°	1261.6	1265.3	1272.4	1294.8	1298.3
22.5°	1231.3	1234.0	1244.6	1271.4	1275.1
25°	1193.7	1200.8	1215.1	1245.6	1251.0
27.5°	1158.0	1164.1	1183.8	1215.1	1224.2
30°	1115.9	1125.7	1149.1	1183.1	1192.9
32.5°	1075.7	1086.3	1113.2	1152.5	1161.4
35°	1027.5	1043.5	1077.5	1116.9	1127.4
37.5°	983.7	998.7	1037.3	1080.2	1092.7
40°	935.2	954.1	998.0	1043.5	1056.0
42.5°	890.6	908.3	955.9	1002.4	1019.4
45°	837.0	862.1	911.1	962.0	980.0
47.5°	787.7	812.8	869.2	923.6	939.9
50°	738.5	765.3	824.4	880.8	896.8
52.5°	687.5	716.3	779.6	836.0	854.9
55°	633.9	667.1	733.3	790.4	807.4
57.5°	582.9	616.9	687.5	745.6	762.6
60°	532.9	567.9	640.3	695.7	713.6
62.5°	477.6	518.7	593.8	648.2	661.7
65°	427.3	469.4	542.8	597.2	612.5
67.5°	374.7	420.2	493.6	543.5	558.1
70°	324.7	372.0	442.6	489.1	495.3
72.5°	271.0	319.3	390.7	420.2	420.2
75°	222.5	271.8	338.0	343.4	339.0
77.5°	169.9	224.5	267.3	256.5	245.9
80°	122.6	176.3	195.7	176.3	161.7
82.5°	82.2	127.8	117.9	93.8	83.2
85°	45.5	67.9	46.5	25.8	18.7
87.5°	17.0	15.3	4.4	4.4	4.4
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)