

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: P881136

Luminaire Tested: **22CZ2-44VHE-UNV-B50**

Issue Date: 10/2/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P881136
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474795)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-44VHE-UNV-B50
Description: 2X2 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

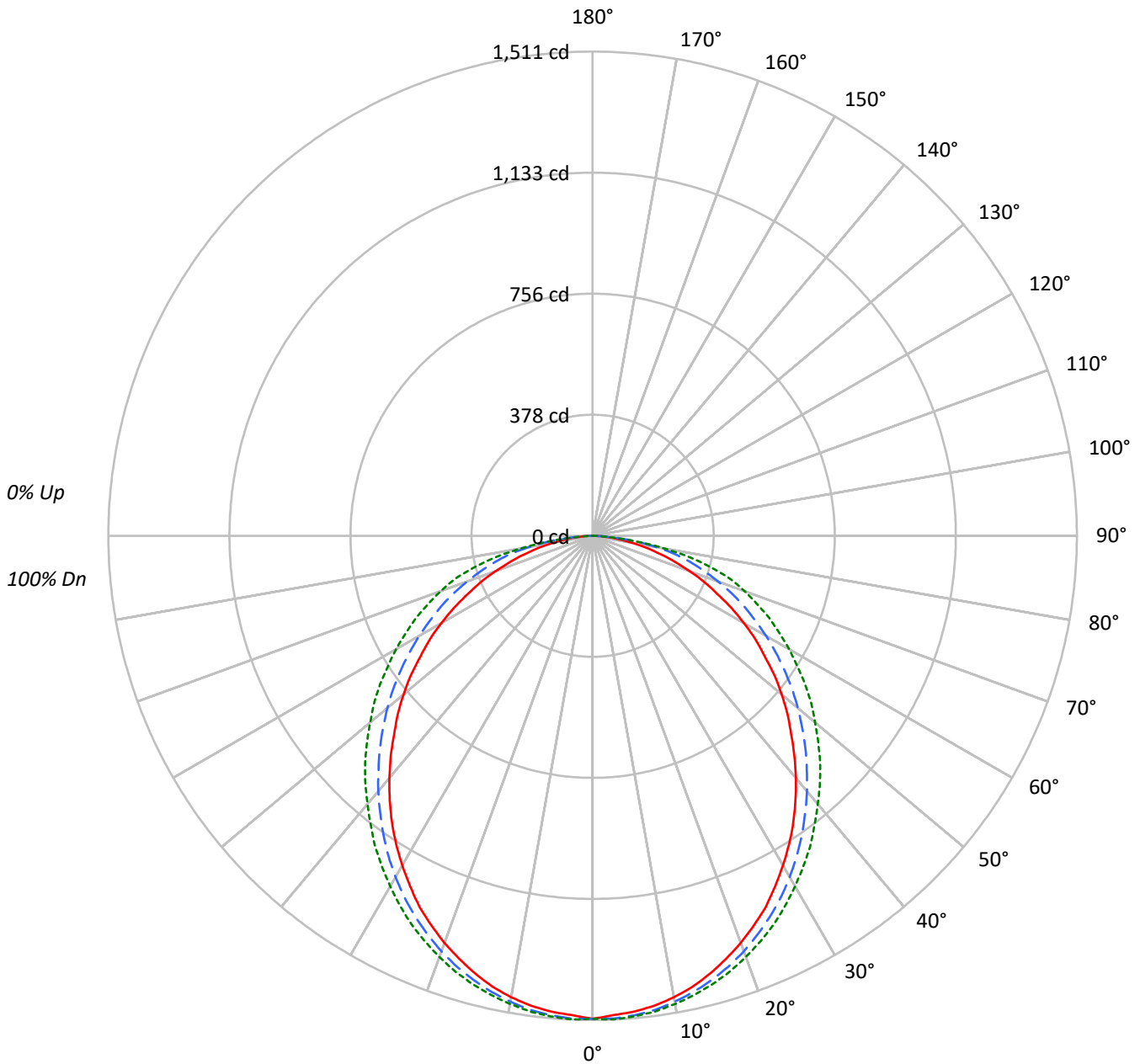
Lumens per Lamp: N/A
Luminaire Lumens: 4156.0 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.25 / 1.33
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 37
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	91	88	90	87	85	83																			
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69																			
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58																			
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50																			
5	76	63	54	47	73	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	36	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	29	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°	4277	4277	4277
5°	4246	4278	4288
10°	4214	4254	4274
15°	4156	4216	4255
20°	4082	4166	4223
25°	4001	4103	4188
30°	3891	4029	4138
35°	3782	3943	4099
40°	3654	3856	4048
45°	3514	3768	4028
50°	3400	3691	3998
55°	3241	3611	4006
60°	3095	3549	4018
65°	2877	3503	4082
70°	2660	3453	4182
75°	2379	3439	4209
80°	1994	3258	3673
85°	1546	2233	2087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.4	3.4
10°-20°	404.2	9.7
20°-30°	602.7	14.5
30°-40°	711.5	17.1
40°-50°	725.2	17.4
50°-60°	654.0	15.7
60°-70°	514.0	12.4
70°-80°	321.8	7.7
80°-90°	80.3	1.9
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°	1149.3	27.7
0°-40°	1860.8	44.8
0°-60°	3239.9	78.0
0°-90°	4156.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4156.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1507	1507	1507	1507	1507	
5°	1490	1494	1502	1505	1505	141
15°	1415	1421	1435	1446	1448	399
25°	1278	1288	1310	1331	1338	587
35°	1092	1106	1138	1170	1183	682
45°	876	895	939	985	1004	677
55°	655	675	730	786	810	588
65°	428	455	522	580	608	427
75°	217	249	314	370	384	230
85°	48	61	69	69	64	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1507.3	1507.3	1507.3	1507.3	1507.3
2.5°	1497.4	1501.1	1508.1	1510.8	1510.8
5°	1490.5	1494.0	1502.0	1505.4	1505.4
7.5°	1479.0	1482.5	1492.3	1496.6	1497.4
10°	1462.4	1466.7	1476.4	1483.5	1483.5
12.5°	1441.3	1445.6	1457.9	1466.7	1467.6
15°	1414.9	1421.1	1435.2	1445.6	1448.3
17.5°	1384.2	1393.9	1409.6	1422.9	1425.6
20°	1351.7	1361.3	1379.7	1394.7	1398.4
22.5°	1315.6	1324.4	1346.4	1365.0	1369.3
25°	1278.0	1287.6	1310.5	1330.6	1337.8
27.5°	1233.1	1244.6	1271.8	1294.6	1301.7
30°	1187.5	1201.6	1229.7	1255.0	1263.0
32.5°	1141.0	1154.1	1185.6	1212.9	1223.5
35°	1091.7	1105.8	1138.3	1169.9	1183.2
37.5°	1039.9	1054.0	1089.2	1125.0	1137.3
40°	986.4	1003.0	1040.9	1079.4	1092.7
42.5°	932.0	949.4	988.9	1032.1	1049.5
45°	875.7	894.9	938.9	984.6	1003.8
47.5°	824.7	840.4	886.3	936.3	954.7
50°	770.2	785.2	836.1	886.3	905.6
52.5°	714.9	729.1	783.5	836.1	859.9
55°	655.2	675.4	729.9	786.0	809.7
57.5°	602.5	621.0	677.3	734.2	757.1
60°	545.4	564.7	625.3	683.4	708.0
62.5°	488.3	509.4	570.8	633.3	656.2
65°	428.5	454.9	521.7	579.6	607.9
67.5°	377.7	403.1	469.1	529.7	554.2
70°	320.6	350.5	416.2	477.9	504.1
72.5°	267.0	296.9	364.4	426.1	452.3
75°	217.0	249.4	313.7	369.8	383.9
77.5°	168.7	199.4	263.5	296.0	311.0
80°	122.0	151.9	199.4	221.3	224.8
82.5°	82.5	108.1	135.3	141.5	138.0
85°	47.5	60.6	68.6	68.6	64.1
87.5°	19.2	19.2	16.8	10.4	6.1
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)