

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: P881133

Luminaire Tested: **22CZ2-44VHE-SQR-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: P881133  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P475230)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-44VHE-SQR-UNV-B50  
Description: 2X2 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

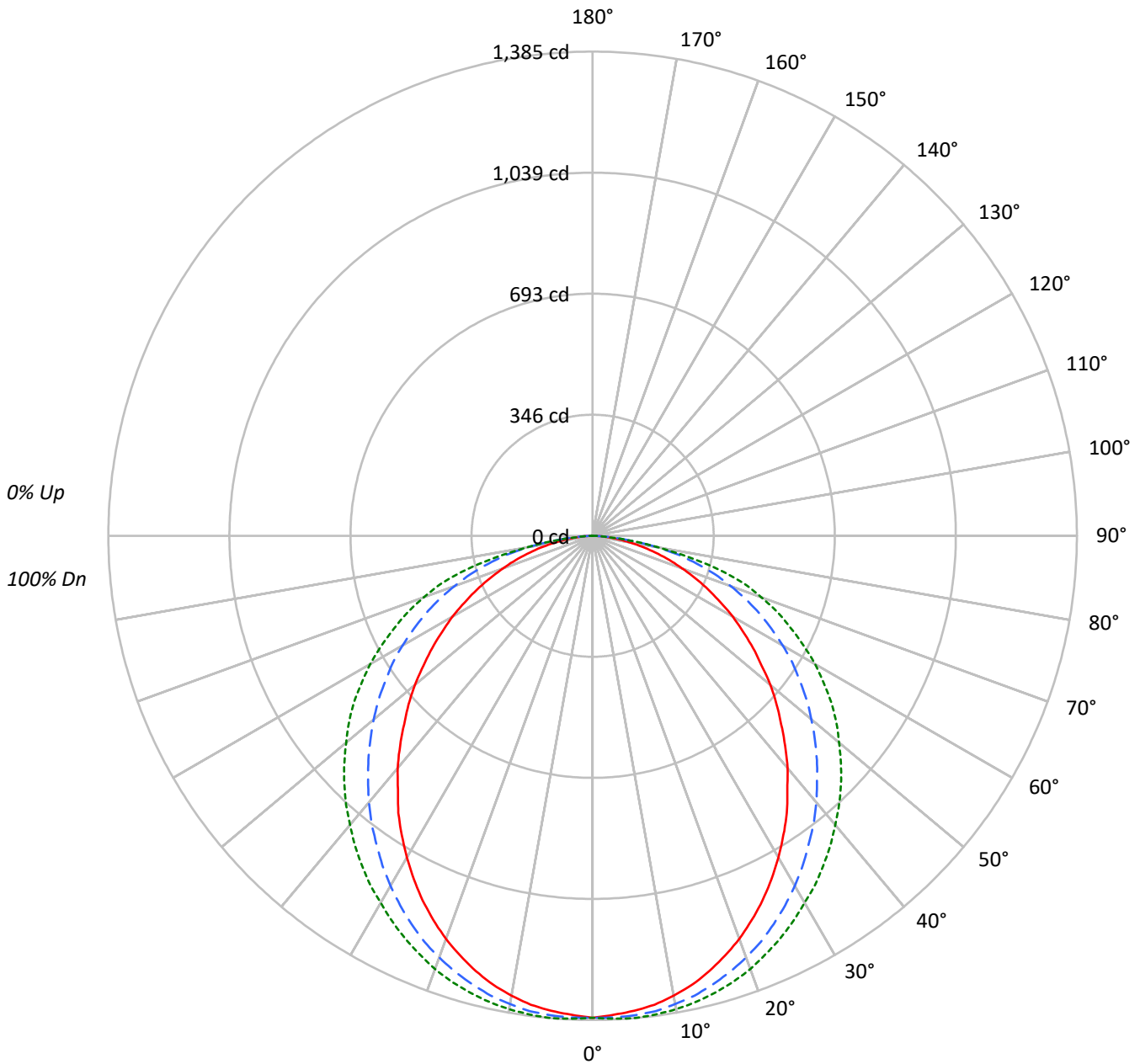
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3948.0 lumens  
Efficiency: N/A  
Efficacy: 106.7 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37  
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	76	85	79	75	81	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43																			
6	70	56	47	41	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°	3913	3913	3913
5°	3885	3923	3944
10°	3849	3920	3963
15°	3788	3902	3975
20°	3706	3876	3983
25°	3602	3837	3978
30°	3481	3788	3972
35°	3355	3732	3986
40°	3214	3686	3998
45°	3060	3639	4031
50°	2929	3606	4061
55°	2772	3578	4125
60°	2627	3563	4169
65°	2453	3535	4202
70°	2252	3481	4259
75°	2035	3389	4107
80°	1744	3002	3092
85°	1403	1768	1403



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.7	3.3
10°-20°	373.8	9.5
20°-30°	561.5	14.2
30°-40°	669.6	17.0
40°-50°	692.3	17.5
50°-60°	636.5	16.1
60°-70°	506.7	12.8
70°-80°	309.6	7.8
80°-90°	67.2	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°	1066.0	27.0
0°-40°	1735.6	44.0
0°-60°	3064.4	77.6
0°-90°	3948.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3948.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1379	1379	1379	1379	1379	
5°	1364	1368	1377	1383	1385	129
15°	1289	1304	1328	1347	1353	363
25°	1151	1179	1226	1259	1270	529
35°	969	1010	1077	1134	1151	604
45°	763	817	907	980	1004	590
55°	560	622	723	806	834	501
65°	365	427	526	600	626	362
75°	186	240	309	363	375	198
85°	43	52	54	47	43	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1379.1	1379.1	1379.1	1379.1	1379.1
2.5°	1371.7	1373.4	1379.1	1382.9	1382.9
5°	1364.0	1367.9	1377.2	1382.9	1384.8
7.5°	1353.0	1358.5	1371.7	1379.1	1381.2
10°	1336.0	1343.7	1360.4	1371.7	1375.3
12.5°	1315.5	1326.7	1347.3	1362.3	1366.0
15°	1289.4	1304.2	1328.4	1347.3	1353.0
17.5°	1259.2	1277.9	1308.0	1330.5	1337.9
20°	1227.2	1246.1	1283.6	1309.7	1319.1
22.5°	1189.9	1214.3	1257.3	1287.5	1294.9
25°	1150.6	1178.6	1225.5	1259.2	1270.5
27.5°	1107.4	1141.3	1191.8	1233.2	1242.5
30°	1062.4	1098.0	1156.1	1201.1	1212.4
32.5°	1015.5	1056.9	1118.6	1169.3	1184.4
35°	968.6	1010.0	1077.4	1133.9	1150.6
37.5°	914.3	963.1	1038.2	1096.3	1116.7
40°	867.6	914.3	995.1	1058.8	1079.4
42.5°	815.0	865.7	950.2	1019.3	1043.7
45°	762.6	816.9	906.9	980.1	1004.5
47.5°	713.8	768.1	861.9	938.9	963.1
50°	663.4	719.6	816.9	895.6	920.0
52.5°	609.0	670.8	772.0	850.7	878.9
55°	560.3	622.0	723.2	805.7	833.9
57.5°	509.6	573.4	678.4	757.1	783.4
60°	462.9	524.6	627.9	704.5	734.6
62.5°	412.2	475.8	577.0	652.1	680.3
65°	365.3	427.2	526.5	599.7	625.8
67.5°	318.4	380.6	473.9	543.5	573.4
70°	271.5	333.7	419.6	487.3	513.4
72.5°	230.6	284.9	367.2	429.2	453.5
75°	185.6	239.9	309.1	363.4	374.6
77.5°	144.3	193.0	251.2	275.4	279.4
80°	106.7	144.3	183.7	189.2	189.2
82.5°	71.1	99.3	114.3	116.0	114.3
85°	43.1	52.4	54.3	46.9	43.1
87.5°	14.8	14.8	9.3	5.5	1.9
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)