

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: P880743

Luminaire Tested: **22CZ2-39VHE-SQR-B2750-W2D-3000K**

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: P880743  
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: 22CZ2-39VHE-SQR-B2750-W2D-3000K  
Description: 2X2 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

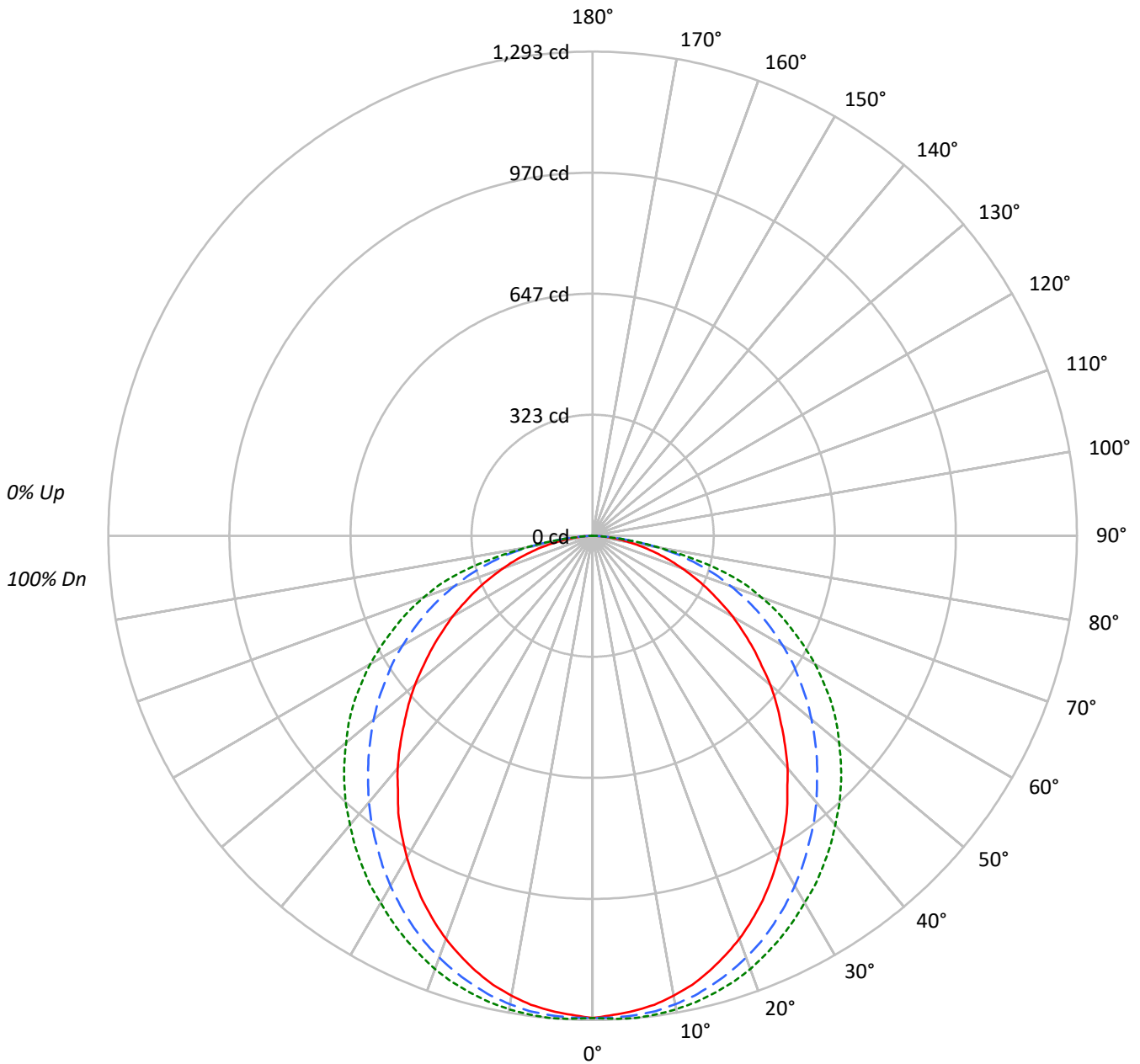
Lumens per Lamp: N/A  
Luminaire Lumens: 3686.0 lumens  
Efficiency: N/A  
Efficacy: 115.2 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 32  
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°	3654	3654	3654
5°	3627	3662	3683
10°	3594	3660	3700
15°	3536	3643	3711
20°	3460	3619	3719
25°	3363	3582	3714
30°	3250	3537	3709
35°	3132	3484	3721
40°	3001	3442	3733
45°	2857	3398	3763
50°	2734	3367	3792
55°	2588	3340	3852
60°	2453	3327	3893
65°	2290	3301	3923
70°	2103	3251	3976
75°	1900	3164	3835
80°	1628	2802	2887
85°	1309	1651	1309



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.1	3.3
10°-20°	349.0	9.5
20°-30°	524.2	14.2
30°-40°	625.2	17.0
40°-50°	646.4	17.5
50°-60°	594.3	16.1
60°-70°	473.1	12.8
70°-80°	289.0	7.8
80°-90°	62.8	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°	995.3	27.0
0°-40°	1620.5	44.0
0°-60°	2861.1	77.6
0°-90°	3686.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3686.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1288	1288	1288	1288	1288	
5°	1274	1277	1286	1291	1293	121
15°	1204	1218	1240	1258	1263	339
25°	1074	1100	1144	1176	1186	494
35°	904	943	1006	1059	1074	564
45°	712	763	847	915	938	551
55°	523	581	675	752	779	468
65°	341	399	492	560	584	338
75°	173	224	289	339	350	184
85°	40	49	51	44	40	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1287.6	1287.6	1287.6	1287.6	<i>1287.6</i>
2.5°	1280.7	1282.2	1287.6	1291.1	<i>1291.1</i>
5°	<i>1273.5</i>	<i>1277.1</i>	<i>1285.8</i>	<i>1291.1</i>	<i>1292.9</i>
7.5°	1263.2	1268.4	1280.7	1287.6	<i>1289.6</i>
10°	1247.4	1254.5	1270.2	1280.7	<i>1284.0</i>
12.5°	1228.2	1238.7	1257.9	1271.9	<i>1275.3</i>
15°	1203.8	1217.7	1240.2	1257.9	<i>1263.2</i>
17.5°	1175.7	1193.1	1221.2	1242.2	<i>1249.2</i>
20°	1145.8	1163.4	1198.5	1222.8	<i>1231.5</i>
22.5°	1110.9	1133.7	1173.9	1202.0	<i>1209.0</i>
25°	1074.3	1100.4	1144.2	1175.7	<i>1186.2</i>
27.5°	1033.9	1065.6	1112.7	1151.3	<i>1160.0</i>
30°	991.9	1025.2	1079.4	1121.4	<i>1131.9</i>
32.5°	948.1	986.7	1044.4	1091.7	<i>1105.8</i>
35°	904.3	943.0	1005.9	1058.6	<i>1074.3</i>
37.5°	853.6	899.2	969.3	1023.6	<i>1042.6</i>
40°	810.1	853.6	929.1	988.5	<i>1007.7</i>
42.5°	760.9	808.3	887.1	951.7	<i>974.5</i>
45°	712.0	762.7	846.7	915.0	<i>937.8</i>
47.5°	666.5	717.2	804.7	876.6	<i>899.2</i>
50°	619.3	671.8	762.7	836.2	<i>859.0</i>
52.5°	568.6	626.3	720.7	794.2	<i>820.6</i>
55°	523.1	580.7	675.2	752.2	<i>778.6</i>
57.5°	475.7	535.4	633.4	706.9	<i>731.4</i>
60°	432.2	489.8	586.3	657.8	<i>685.9</i>
62.5°	384.8	444.2	538.7	608.8	<i>635.2</i>
65°	341.1	398.9	491.6	559.9	<i>584.3</i>
67.5°	297.3	355.3	442.5	507.4	<i>535.4</i>
70°	253.5	311.5	391.8	454.9	<i>479.3</i>
72.5°	215.3	266.0	342.8	400.7	<i>423.5</i>
75°	173.3	224.0	288.6	339.3	<i>349.8</i>
77.5°	134.7	180.2	234.5	257.1	<i>260.8</i>
80°	99.6	134.7	171.5	176.7	<i>176.7</i>
82.5°	66.3	92.7	106.8	108.3	<i>106.8</i>
85°	40.2	48.9	50.7	43.8	<i>40.2</i>
87.5°	13.9	13.9	8.7	5.1	<i>1.8</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)