

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: P880722

Luminaire Tested: **22CZ2-39VHE-B2750-W2D-2700K**

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: P880722  
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: 22CZ2-39VHE-B2750-W2D-2700K  
Description: 2X2 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND RIBBED LENS

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

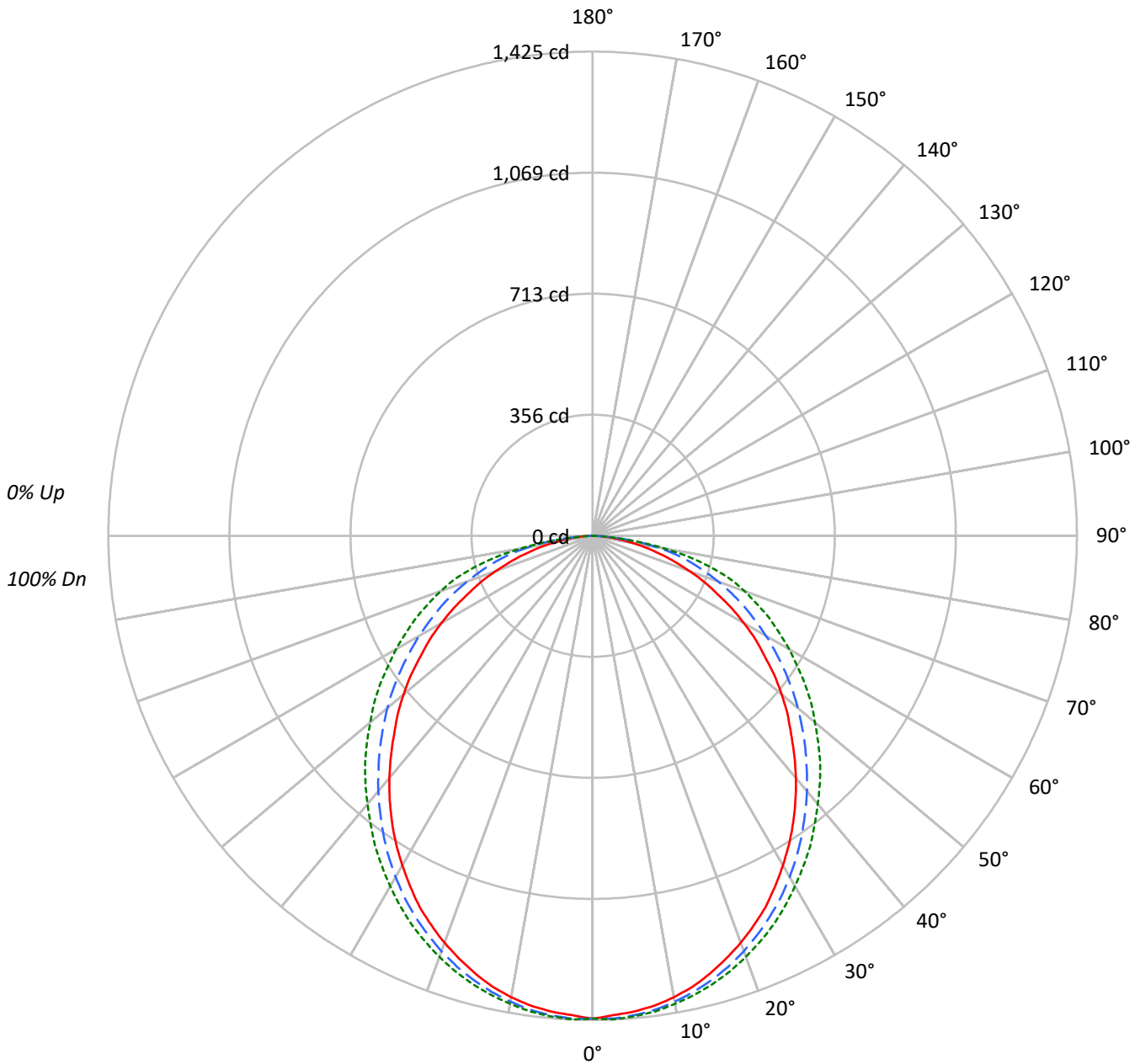
Lumens per Lamp: N/A  
Luminaire Lumens: 3919.0 lumens  
Efficiency: N/A  
Efficacy: 122.5 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.25 / 1.33  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	4033	4033	4033
5°	4003	4034	4044
10°	3973	4011	4031
15°	3920	3976	4012
20°	3849	3929	3982
25°	3773	3869	3950
30°	3669	3799	3902
35°	3566	3718	3865
40°	3446	3636	3817
45°	3313	3553	3799
50°	3206	3481	3769
55°	3056	3405	3778
60°	2919	3346	3789
65°	2713	3303	3849
70°	2508	3256	3943
75°	2243	3243	3969
80°	1881	3072	3464
85°	1459	2106	1966



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.3	3.4
10°-20°	381.2	9.7
20°-30°	568.3	14.5
30°-40°	670.9	17.1
40°-50°	683.8	17.4
50°-60°	616.7	15.7
60°-70°	484.7	12.4
70°-80°	303.5	7.7
80°-90°	75.7	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°	1083.8	27.7
0°-40°	1754.7	44.8
0°-60°	3055.2	78.0
0°-90°	3919.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3919.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1421	1421	1421	1421	1421	
5°	1406	1409	1416	1420	1420	133
15°	1334	1340	1353	1363	1366	376
25°	1205	1214	1236	1255	1262	554
35°	1029	1043	1073	1103	1116	643
45°	826	844	885	928	947	639
55°	618	637	688	741	764	555
65°	404	429	492	547	573	403
75°	205	235	296	349	362	217
85°	45	57	65	65	60	54
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1421.3	1421.3	1421.3	1421.3	1421.3
2.5°	1412.1	1415.5	1422.1	1424.6	1424.6
5°	1405.5	1408.8	1416.3	1419.6	1419.6
7.5°	1394.7	1398.0	1407.2	1411.3	1412.1
10°	1379.0	1383.1	1392.2	1398.9	1398.9
12.5°	1359.2	1363.2	1374.8	1383.1	1383.9
15°	1334.3	1340.0	1353.4	1363.2	1365.7
17.5°	1305.3	1314.4	1329.2	1341.8	1344.3
20°	1274.6	1283.7	1301.0	1315.1	1318.6
22.5°	1240.6	1248.9	1269.6	1287.1	1291.2
25°	1205.1	1214.2	1235.8	1254.7	1261.5
27.5°	1162.8	1173.6	1199.3	1220.7	1227.5
30°	1119.8	1133.1	1159.5	1183.5	1191.0
32.5°	1075.9	1088.3	1118.0	1143.7	1153.7
35°	1029.4	1042.7	1073.4	1103.2	1115.7
37.5°	980.6	993.9	1027.1	1060.9	1072.5
40°	930.2	945.8	981.5	1017.8	1030.4
42.5°	878.8	895.2	932.5	973.2	989.6
45°	825.7	843.9	885.4	928.4	946.6
47.5°	777.7	792.5	835.8	882.9	900.2
50°	726.3	740.4	788.5	835.8	853.9
52.5°	674.2	687.5	738.8	788.5	810.9
55°	617.8	636.9	688.3	741.2	763.6
57.5°	568.2	585.6	638.6	692.3	713.9
60°	514.3	532.5	589.6	644.4	667.6
62.5°	460.5	480.3	538.3	597.1	618.8
65°	404.1	429.0	491.9	546.6	573.2
67.5°	356.2	380.1	442.3	499.5	522.6
70°	302.3	330.5	392.5	450.6	475.3
72.5°	251.8	279.9	343.7	401.8	426.5
75°	204.6	235.1	295.8	348.7	362.0
77.5°	159.1	188.0	248.5	279.2	293.3
80°	115.1	143.3	188.0	208.7	212.0
82.5°	77.8	101.9	127.6	133.4	130.1
85°	44.8	57.1	64.7	64.7	60.4
87.5°	18.1	18.1	15.8	9.8	5.8
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)