

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: P880737

Luminaire Tested: **22CZ2-39VHE-S-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: P880737
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-S-B2750-W2D-2700K
Description: 2X2 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

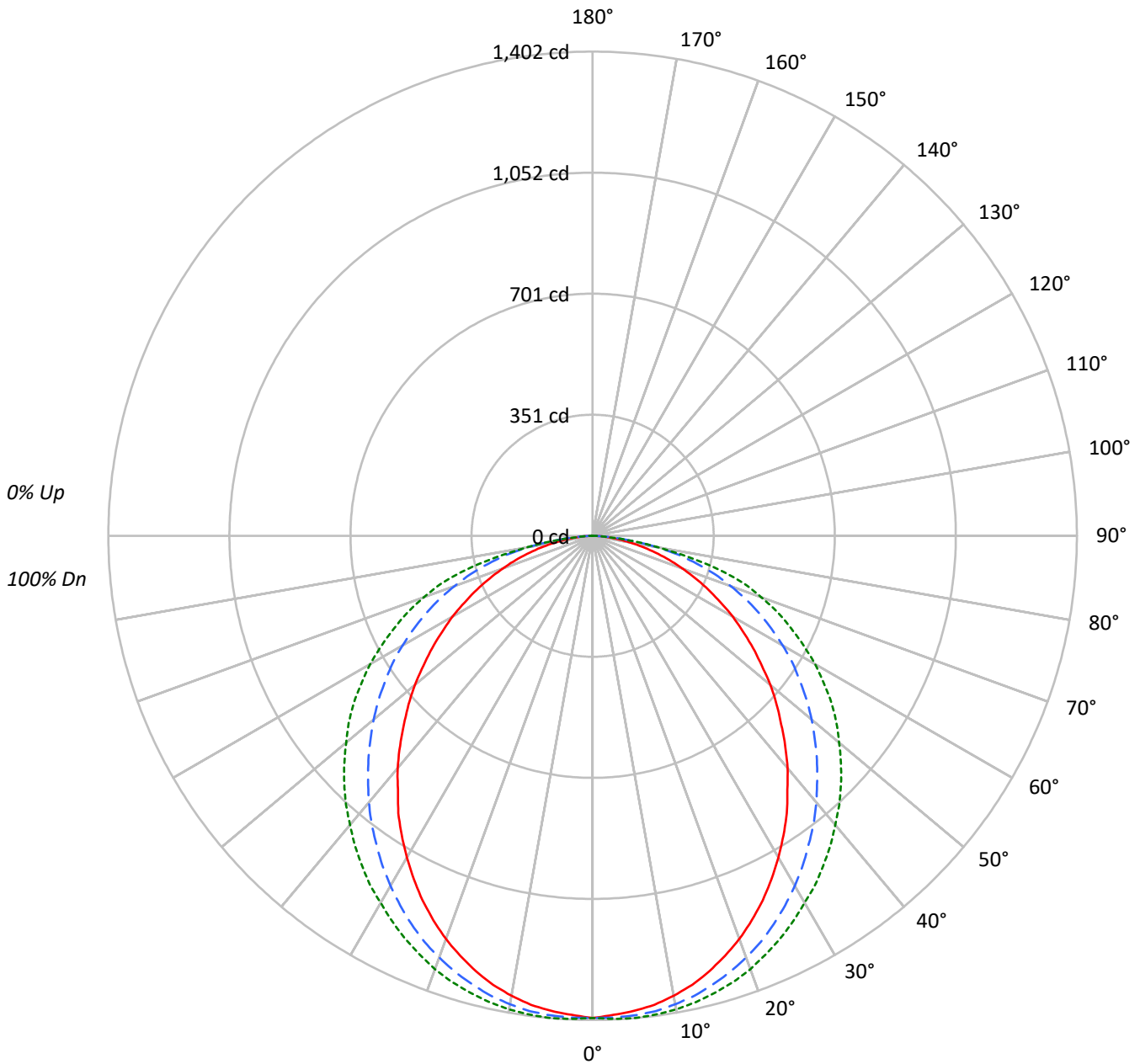
Lumens per Lamp: N/A
Luminaire Lumens: 3997.0 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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°	3962	3962	3962
5°	3934	3971	3993
10°	3897	3968	4012
15°	3835	3951	4024
20°	3752	3924	4032
25°	3647	3884	4027
30°	3524	3835	4022
35°	3397	3779	4035
40°	3254	3732	4048
45°	3098	3684	4081
50°	2965	3651	4112
55°	2806	3622	4177
60°	2659	3608	4221
65°	2483	3579	4254
70°	2281	3524	4312
75°	2060	3430	4158
80°	1765	3039	3131
85°	1419	1791	1419



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.4	3.3
10°-20°	378.5	9.5
20°-30°	568.4	14.2
30°-40°	677.9	17.0
40°-50°	700.9	17.5
50°-60°	644.4	16.1
60°-70°	513.0	12.8
70°-80°	313.4	7.8
80°-90°	68.1	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°	1079.3	27.0
0°-40°	1757.2	44.0
0°-60°	3102.5	77.6
0°-90°	3997.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3997.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1396	1396	1396	1396	1396	
5°	1381	1385	1394	1400	1402	131
15°	1305	1320	1345	1364	1370	368
25°	1165	1193	1241	1275	1286	536
35°	981	1022	1091	1148	1165	612
45°	772	827	918	992	1017	597
55°	567	630	732	816	844	507
65°	370	432	533	607	634	366
75°	188	243	313	368	379	200
85°	44	53	55	48	44	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1396.2	1396.2	1396.2	1396.2	<i>1396.2</i>
2.5°	1388.7	1390.4	1396.2	1400.1	<i>1400.1</i>
5°	<i>1381.0</i>	<i>1384.8</i>	<i>1394.3</i>	<i>1400.1</i>	<i>1402.0</i>
7.5°	1369.8	1375.4	1388.7	1396.2	<i>1398.4</i>
10°	1352.6	1360.4	1377.3	1388.7	<i>1392.4</i>
12.5°	1331.8	1343.2	1364.0	1379.3	<i>1382.9</i>
15°	1305.4	1320.4	1344.9	1364.0	<i>1369.8</i>
17.5°	1274.9	1293.8	1324.3	1347.0	<i>1354.6</i>
20°	1242.4	1261.6	1299.6	1326.0	<i>1335.4</i>
22.5°	1204.6	1229.3	1272.9	1303.4	<i>1311.0</i>
25°	1164.9	1193.3	1240.7	1274.9	<i>1286.3</i>
27.5°	1121.1	1155.5	1206.6	1248.5	<i>1257.9</i>
30°	1075.6	1111.6	1170.5	1216.0	<i>1227.4</i>
32.5°	1028.1	1070.0	1132.5	1183.8	<i>1199.1</i>
35°	980.6	1022.5	1090.8	1147.9	<i>1164.9</i>
37.5°	925.7	975.1	1051.1	1109.9	<i>1130.5</i>
40°	878.4	925.7	1007.5	1071.9	<i>1092.7</i>
42.5°	825.1	876.5	962.0	1032.0	<i>1056.7</i>
45°	772.1	827.1	918.1	992.2	<i>1016.9</i>
47.5°	722.7	777.7	872.6	950.6	<i>975.1</i>
50°	671.6	728.5	827.1	906.8	<i>931.5</i>
52.5°	616.6	679.1	781.5	861.2	<i>889.8</i>
55°	567.2	629.7	732.2	815.7	<i>844.3</i>
57.5°	515.9	580.5	686.8	766.5	<i>793.1</i>
60°	468.6	531.1	635.7	713.3	<i>743.7</i>
62.5°	417.3	481.7	584.2	660.2	<i>688.8</i>
65°	369.8	432.5	533.1	607.2	<i>633.6</i>
67.5°	322.4	385.3	479.8	550.2	<i>580.5</i>
70°	274.9	337.8	424.8	493.3	<i>519.7</i>
72.5°	233.5	288.4	371.8	434.5	<i>459.2</i>
75°	187.9	242.9	312.9	367.9	<i>379.3</i>
77.5°	146.0	195.4	254.3	278.8	<i>282.9</i>
80°	108.0	146.0	186.0	191.6	<i>191.6</i>
82.5°	71.9	100.5	115.8	117.5	<i>115.8</i>
85°	43.6	53.0	55.0	47.5	<i>43.6</i>
87.5°	15.0	15.0	9.4	5.6	<i>1.9</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)