

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: P880738

Luminaire Tested: **22CZ2-39VHE-S-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: P880738
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-3000K
Description: 2X2 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

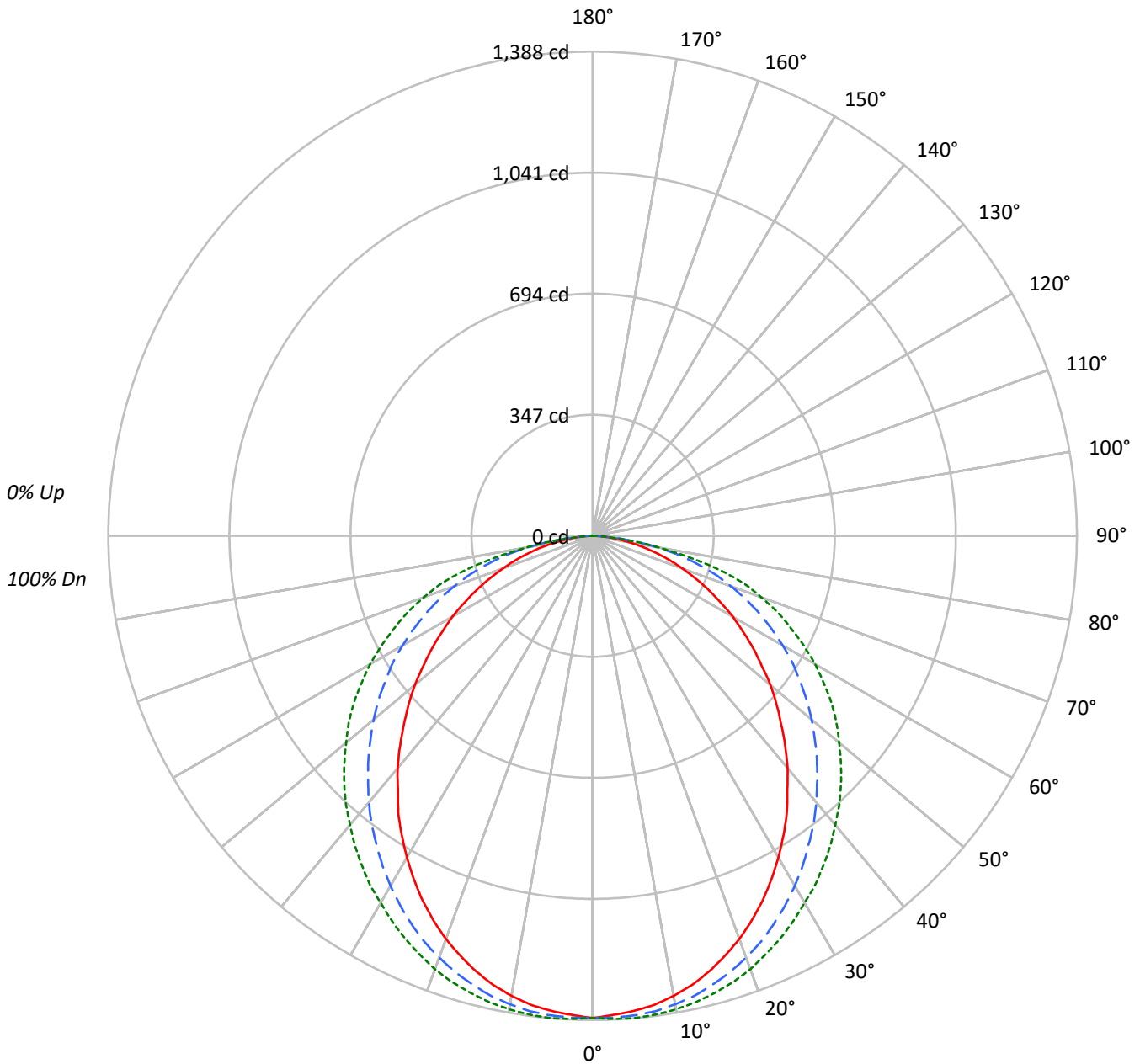
Lumens per Lamp: N/A
Luminaire Lumens: 3957.0 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	3922	3922	3922
5°	3894	3932	3954
10°	3858	3929	3972
15°	3796	3911	3984
20°	3714	3885	3992
25°	3611	3846	3987
30°	3489	3797	3981
35°	3363	3741	3995
40°	3221	3695	4007
45°	3067	3648	4040
50°	2935	3615	4071
55°	2778	3586	4135
60°	2633	3572	4179
65°	2458	3543	4211
70°	2258	3489	4268
75°	2039	3396	4117
80°	1747	3008	3100
85°	1406	1771	1406



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.0	3.3
10°-20°	374.7	9.5
20°-30°	562.7	14.2
30°-40°	671.1	17.0
40°-50°	693.9	17.5
50°-60°	637.9	16.1
60°-70°	507.9	12.8
70°-80°	310.3	7.8
80°-90°	67.4	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°	1068.5	27.0
0°-40°	1739.6	44.0
0°-60°	3071.4	77.6
0°-90°	3957.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3957.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1382	1382	1382	1382	1382	
5°	1367	1371	1380	1386	1388	130
15°	1292	1307	1331	1350	1356	364
25°	1153	1181	1228	1262	1273	530
35°	971	1012	1080	1136	1153	606
45°	764	819	909	982	1007	591
55°	562	623	725	808	836	502
65°	366	428	528	601	627	363
75°	186	240	310	364	376	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°	1382.2	1382.2	1382.2	1382.2	<i>1382.2</i>
2.5°	1374.8	1376.5	1382.2	1386.1	<i>1386.1</i>
5°	<i>1367.2</i>	<i>1371.0</i>	<i>1380.3</i>	<i>1386.1</i>	<i>1388.0</i>
7.5°	1356.1	1361.6	1374.8	1382.2	<i>1384.4</i>
10°	1339.1	1346.7	1363.5	1374.8	<i>1378.4</i>
12.5°	1318.5	1329.7	1350.4	1365.5	<i>1369.1</i>
15°	1292.3	1307.2	1331.4	1350.4	<i>1356.1</i>
17.5°	1262.1	1280.8	1311.0	1333.6	<i>1341.0</i>
20°	1230.0	1248.9	1286.6	1312.7	<i>1322.1</i>
22.5°	1192.6	1217.0	1260.2	1290.4	<i>1297.8</i>
25°	1153.3	1181.3	1228.3	1262.1	<i>1273.4</i>
27.5°	1109.9	1143.9	1194.5	1236.0	<i>1245.3</i>
30°	1064.8	1100.5	1158.8	1203.9	<i>1215.1</i>
32.5°	1017.8	1059.3	1121.1	1172.0	<i>1187.1</i>
35°	970.8	1012.3	1079.9	1136.5	<i>1153.3</i>
37.5°	916.4	965.3	1040.6	1098.8	<i>1119.2</i>
40°	869.6	916.4	997.4	1061.2	<i>1081.8</i>
42.5°	816.9	867.7	952.3	1021.6	<i>1046.1</i>
45°	764.4	818.8	909.0	982.3	<i>1006.8</i>
47.5°	715.5	769.9	863.9	941.1	<i>965.3</i>
50°	664.9	721.2	818.8	897.7	<i>922.1</i>
52.5°	610.4	672.3	773.7	852.6	<i>880.9</i>
55°	561.5	623.4	724.8	807.5	<i>835.8</i>
57.5°	510.7	574.7	680.0	758.8	<i>785.2</i>
60°	463.9	525.8	629.4	706.1	<i>736.3</i>
62.5°	413.1	476.9	578.3	653.6	<i>681.9</i>
65°	366.1	428.2	527.7	601.1	<i>627.2</i>
67.5°	319.1	381.4	475.0	544.7	<i>574.7</i>
70°	272.2	334.5	420.6	488.4	<i>514.5</i>
72.5°	231.1	285.5	368.0	430.1	<i>454.6</i>
75°	186.0	240.5	309.8	364.2	<i>375.5</i>
77.5°	144.6	193.5	251.7	276.0	<i>280.0</i>
80°	106.9	144.6	184.1	189.7	<i>189.7</i>
82.5°	71.2	99.5	114.6	116.3	<i>114.6</i>
85°	43.2	52.5	54.4	47.0	<i>43.2</i>
87.5°	14.9	14.9	9.4	5.5	<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)