

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: P880767

Luminaire Tested: **22CZ2-44VHE-SQR-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: P880767
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-B2750-W2D-2700K
Description: 2X2 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

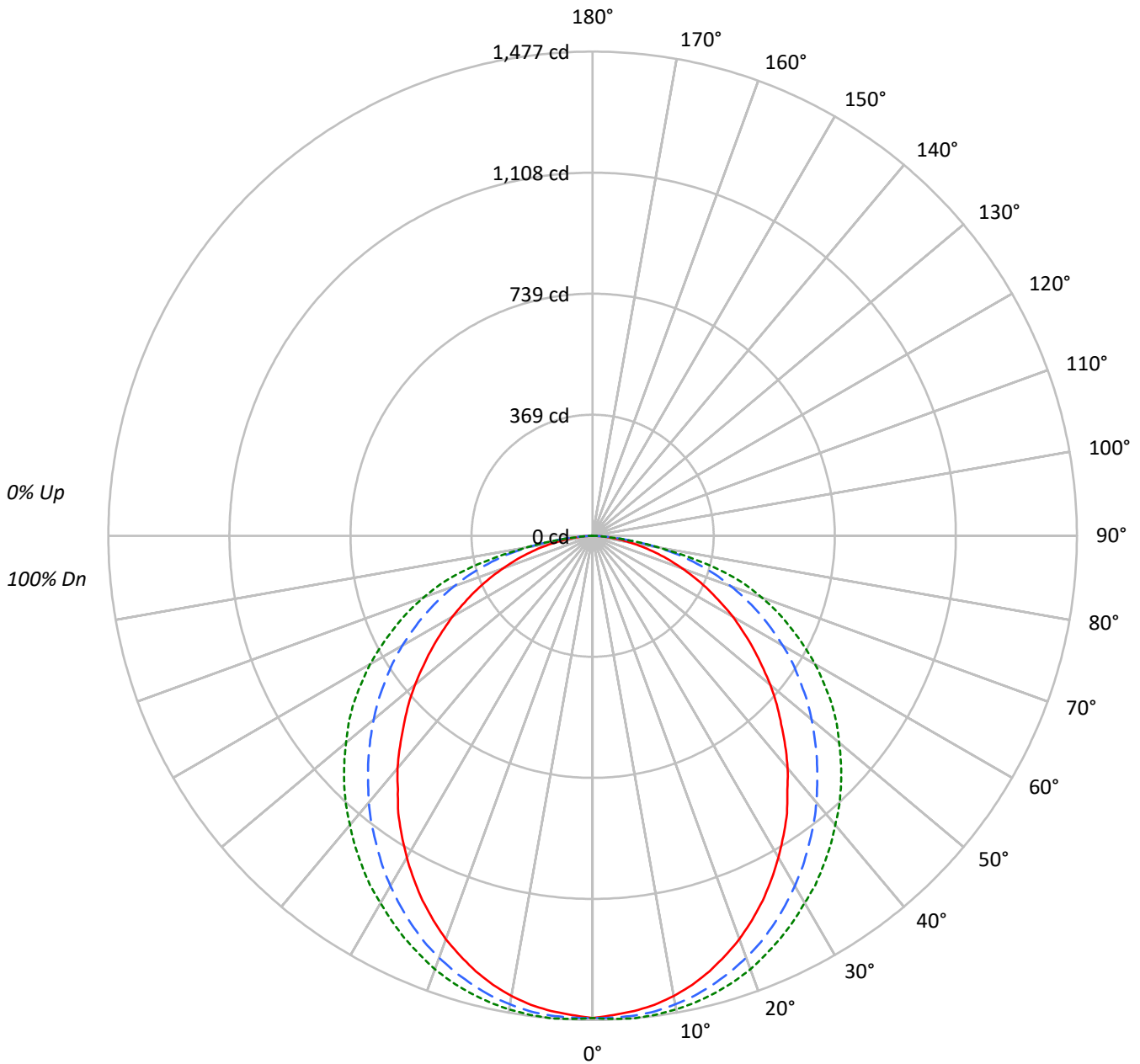
Lumens per Lamp: N/A
Luminaire Lumens: 4212.0 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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°	4175	4175	4175
5°	4145	4185	4208
10°	4107	4182	4227
15°	4041	4163	4240
20°	3954	4135	4250
25°	3843	4094	4244
30°	3714	4042	4238
35°	3580	3982	4252
40°	3429	3933	4265
45°	3265	3882	4300
50°	3124	3848	4333
55°	2957	3817	4401
60°	2802	3802	4448
65°	2617	3771	4483
70°	2403	3714	4544
75°	2171	3616	4382
80°	1860	3203	3299
85°	1494	1885	1494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.5	3.3
10°-20°	398.8	9.5
20°-30°	599.0	14.2
30°-40°	714.4	17.0
40°-50°	738.6	17.5
50°-60°	679.1	16.1
60°-70°	540.6	12.8
70°-80°	330.3	7.8
80°-90°	71.7	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°	1137.3	27.0
0°-40°	1851.7	44.0
0°-60°	3269.4	77.6
0°-90°	4212.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4212.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1471	1471	1471	1471	1471	
5°	1455	1459	1469	1475	1477	138
15°	1376	1391	1417	1437	1444	387
25°	1228	1257	1308	1344	1355	565
35°	1033	1078	1150	1210	1228	645
45°	814	872	968	1046	1072	629
55°	598	664	772	860	890	535
65°	390	456	562	640	668	386
75°	198	256	330	388	400	211
85°	46	56	58	50	46	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1471.3	1471.3	1471.3	1471.3	1471.3
2.5°	1463.4	1465.2	1471.3	1475.4	1475.4
5°	1455.3	1459.3	1469.3	1475.4	1477.4
7.5°	1443.5	1449.4	1463.4	1471.3	1473.6
10°	1425.4	1433.5	1451.4	1463.4	1467.2
12.5°	1403.4	1415.4	1437.4	1453.4	1457.3
15°	1375.6	1391.4	1417.2	1437.4	1443.5
17.5°	1343.5	1363.4	1395.5	1419.5	1427.4
20°	1309.3	1329.4	1369.5	1397.3	1407.3
22.5°	1269.4	1295.5	1341.4	1373.6	1381.5
25°	1227.6	1257.4	1307.5	1343.5	1355.4
27.5°	1181.4	1217.6	1271.5	1315.6	1325.6
30°	1133.4	1171.4	1233.5	1281.4	1293.4
32.5°	1083.4	1127.5	1193.4	1247.5	1263.6
35°	1033.4	1077.5	1149.5	1209.7	1227.6
37.5°	975.5	1027.5	1107.6	1169.6	1191.4
40°	925.7	975.5	1061.7	1129.6	1151.5
42.5°	869.5	923.6	1013.7	1087.5	1113.5
45°	813.6	871.6	967.5	1045.6	1071.6
47.5°	761.6	819.5	919.5	1001.7	1027.5
50°	707.7	767.7	871.6	955.5	981.6
52.5°	649.8	715.6	823.6	907.6	937.7
55°	597.7	663.6	771.5	859.6	889.7
57.5°	543.6	611.7	723.8	807.7	835.8
60°	493.8	559.7	669.9	751.6	783.8
62.5°	439.7	507.6	615.6	695.7	725.8
65°	389.7	455.8	561.7	639.8	667.7
67.5°	339.7	406.0	505.6	579.8	611.7
70°	289.7	356.0	447.7	519.9	547.7
72.5°	246.0	304.0	391.8	457.9	483.9
75°	198.0	256.0	329.8	387.7	399.7
77.5°	153.9	206.0	268.0	293.8	298.1
80°	113.8	153.9	196.0	201.9	201.9
82.5°	75.8	105.9	122.0	123.8	122.0
85°	45.9	55.9	57.9	50.0	45.9
87.5°	15.8	15.8	10.0	5.9	2.0
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)