

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: P880768

Luminaire Tested: **22CZ2-44VHE-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: P880768
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-3000K
Description: 2X2 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

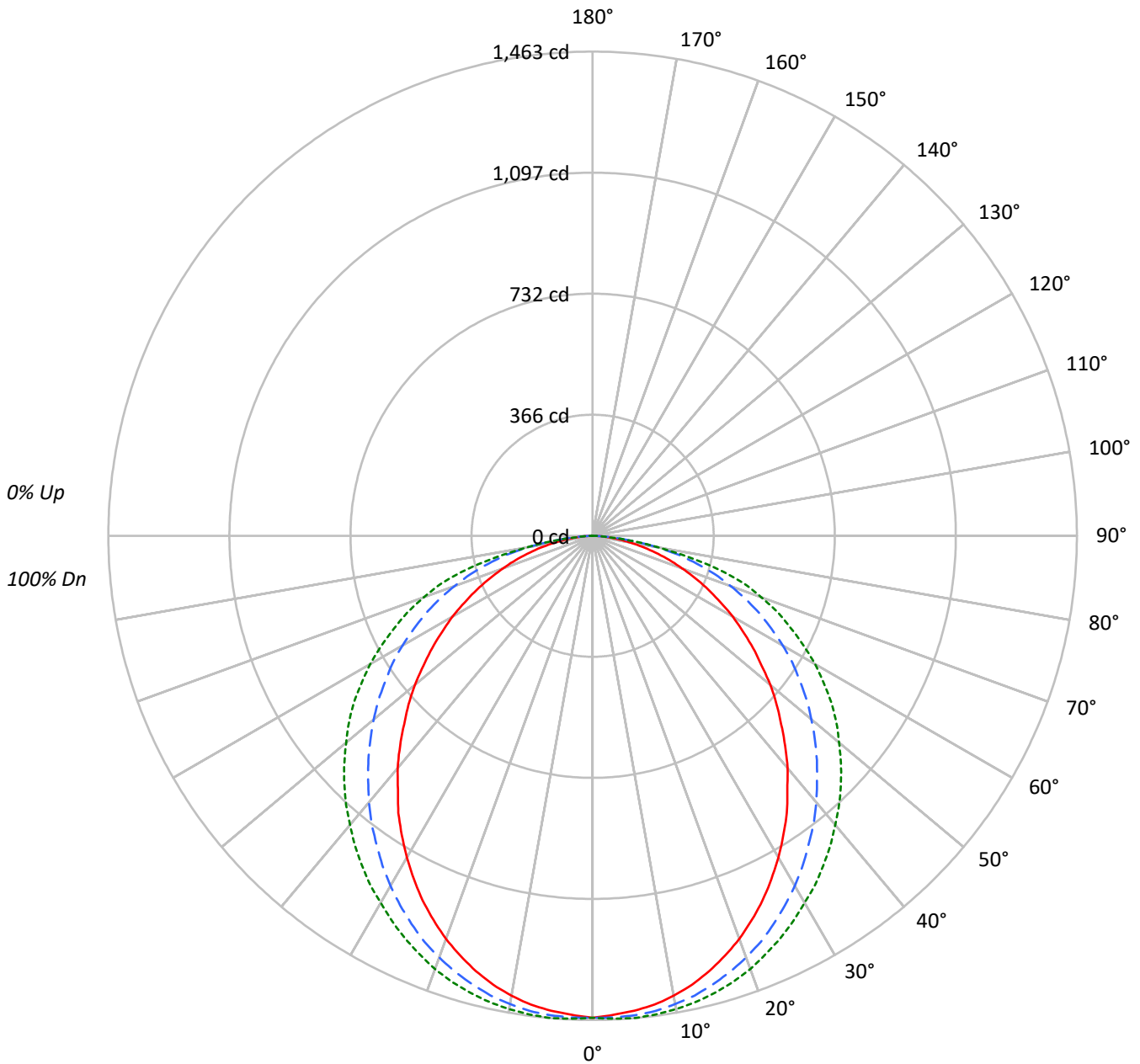
Lumens per Lamp: N/A
Luminaire Lumens: 4170.0 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	4133	4133	4133
5°	4104	4143	4166
10°	4066	4140	4185
15°	4001	4122	4198
20°	3914	4094	4207
25°	3805	4053	4201
30°	3677	4001	4196
35°	3544	3942	4210
40°	3394	3893	4223
45°	3232	3844	4258
50°	3093	3809	4290
55°	2928	3779	4357
60°	2775	3764	4403
65°	2590	3734	4438
70°	2379	3677	4498
75°	2150	3580	4338
80°	1842	3170	3267
85°	1481	1869	1481



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.1	3.3
10°-20°	394.8	9.5
20°-30°	593.0	14.2
30°-40°	707.3	17.0
40°-50°	731.2	17.5
50°-60°	672.3	16.1
60°-70°	535.2	12.8
70°-80°	327.0	7.8
80°-90°	71.0	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°	1126.0	27.0
0°-40°	1833.3	44.0
0°-60°	3236.8	77.6
0°-90°	4170.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4170.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1457	1457	1457	1457	1457	
5°	1441	1445	1455	1461	1463	137
15°	1362	1378	1403	1423	1429	383
25°	1215	1245	1294	1330	1342	559
35°	1023	1067	1138	1198	1215	638
45°	806	863	958	1035	1061	623
55°	592	657	764	851	881	529
65°	386	451	556	633	661	382
75°	196	253	326	384	396	209
85°	46	55	57	50	46	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1456.7	1456.7	1456.7	1456.7	1456.7
2.5°	1448.8	1450.6	1456.7	1460.7	1460.7
5°	1440.7	1444.8	1454.6	1460.7	1462.7
7.5°	1429.1	1434.9	1448.8	1456.7	1458.9
10°	1411.2	1419.2	1436.9	1448.8	1452.6
12.5°	1389.4	1401.3	1423.0	1439.0	1442.8
15°	1361.9	1377.6	1403.1	1423.0	1429.1
17.5°	1330.1	1349.8	1381.6	1405.3	1413.2
20°	1296.2	1316.2	1355.8	1383.4	1393.2
22.5°	1256.8	1282.6	1328.0	1359.9	1367.7
25°	1215.3	1244.9	1294.4	1330.1	1341.9
27.5°	1169.6	1205.5	1258.8	1302.5	1312.4
30°	1122.1	1159.8	1221.2	1268.7	1280.5
32.5°	1072.6	1116.3	1181.5	1235.1	1251.0
35°	1023.1	1066.8	1138.0	1197.6	1215.3
37.5°	965.7	1017.3	1096.6	1158.0	1179.5
40°	916.4	965.7	1051.1	1118.3	1140.0
42.5°	860.9	914.4	1003.6	1076.6	1102.4
45°	805.5	862.9	957.9	1035.2	1061.0
47.5°	754.0	811.3	910.4	991.7	1017.3
50°	700.7	760.0	862.9	946.0	971.8
52.5°	643.3	708.5	815.4	898.5	928.3
55°	591.8	657.0	763.8	851.0	880.8
57.5°	538.2	605.6	716.6	799.7	827.5
60°	488.9	554.1	663.2	744.1	775.9
62.5°	435.4	502.6	609.5	688.8	718.6
65°	385.8	451.3	556.1	633.4	661.0
67.5°	336.3	402.0	500.6	574.1	605.6
70°	286.8	352.5	443.2	514.7	542.2
72.5°	243.6	300.9	387.9	453.3	479.1
75°	196.1	253.4	326.5	383.8	395.7
77.5°	152.4	203.9	265.3	290.8	295.1
80°	112.7	152.4	194.0	199.9	199.9
82.5°	75.1	104.9	120.8	122.6	120.8
85°	45.5	55.3	57.4	49.5	45.5
87.5°	15.7	15.7	9.9	5.8	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)