

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: P880748

Luminaire Tested: **22CZ2-44VHE-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: P880748
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: 22CZ2-44VHE-B2750-W2D-3000K
Description: 2X2 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

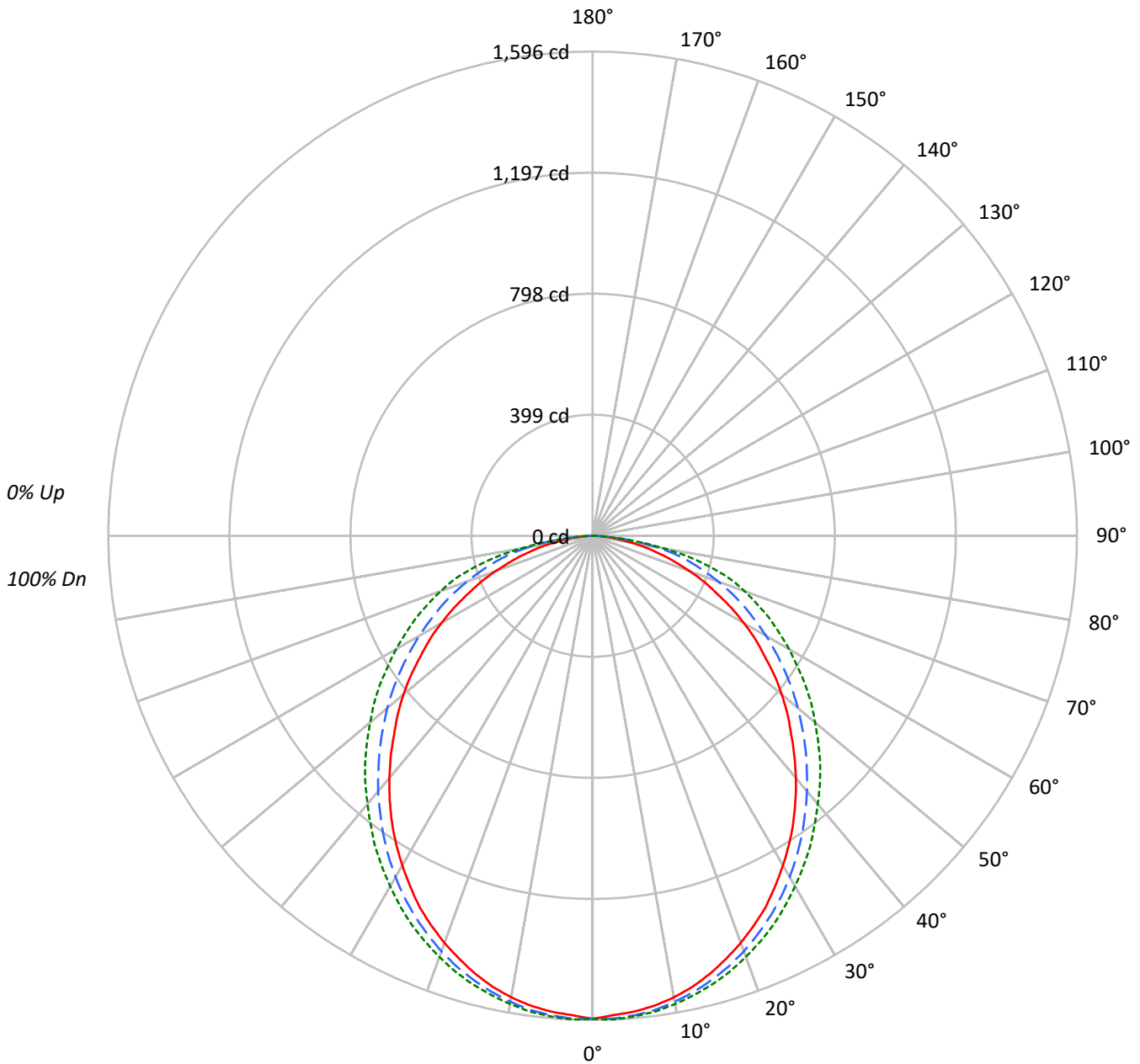
Lumens per Lamp: N/A
Luminaire Lumens: 4390.0 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.25 / 1.33
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	4518	4518	4518
5°	4484	4519	4529
10°	4451	4493	4515
15°	4391	4453	4494
20°	4311	4401	4460
25°	4226	4334	4424
30°	4110	4256	4371
35°	3994	4165	4329
40°	3860	4073	4275
45°	3712	3980	4255
50°	3592	3899	4222
55°	3423	3814	4231
60°	3269	3748	4244
65°	3039	3700	4311
70°	2810	3648	4417
75°	2513	3632	4446
80°	2106	3441	3881
85°	1634	2357	2204



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.4	3.4
10°-20°	427.0	9.7
20°-30°	636.6	14.5
30°-40°	751.6	17.1
40°-50°	766.0	17.4
50°-60°	690.8	15.7
60°-70°	542.9	12.4
70°-80°	339.9	7.7
80°-90°	84.8	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°	1214.0	27.7
0°-40°	1965.6	44.8
0°-60°	3422.3	78.0
0°-90°	4390.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4390.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1592	1592	1592	1592	1592	
5°	1574	1578	1586	1590	1590	149
15°	1495	1501	1516	1527	1530	421
25°	1350	1360	1384	1406	1413	621
35°	1153	1168	1202	1236	1250	721
45°	925	945	992	1040	1060	716
55°	692	714	771	830	855	621
65°	453	480	551	612	642	451
75°	229	263	331	391	406	243
85°	50	64	72	72	68	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1592.1	1592.1	1592.1	1592.1	1592.1
2.5°	1581.8	1585.7	1593.0	1595.8	1595.8
5°	1574.4	1578.1	1586.5	1590.2	1590.2
7.5°	1562.3	1566.0	1576.4	1580.9	1581.8
10°	1544.8	1549.3	1559.5	1567.1	1567.1
12.5°	1522.5	1527.0	1540.0	1549.3	1550.2
15°	1494.6	1501.1	1516.0	1527.0	1529.9
17.5°	1462.2	1472.3	1489.0	1503.0	1505.9
20°	1427.8	1437.9	1457.4	1473.2	1477.1
22.5°	1389.7	1399.0	1422.2	1441.8	1446.4
25°	1349.9	1360.1	1384.3	1405.5	1413.1
27.5°	1302.6	1314.7	1343.4	1367.4	1375.0
30°	1254.3	1269.3	1298.9	1325.7	1334.1
32.5°	1205.2	1219.1	1252.4	1281.2	1292.4
35°	1153.1	1168.0	1202.4	1235.7	1249.8
37.5°	1098.4	1113.3	1150.5	1188.4	1201.4
40°	1042.0	1059.5	1099.5	1140.1	1154.2
42.5°	984.4	1002.8	1044.6	1090.2	1108.6
45°	925.0	945.3	991.8	1040.0	1060.3
47.5°	871.1	887.8	936.2	989.0	1008.4
50°	813.6	829.4	883.2	936.2	956.5
52.5°	755.2	770.1	827.6	883.2	908.3
55°	692.0	713.5	771.0	830.2	855.3
57.5°	636.5	655.9	715.4	775.5	799.7
60°	576.1	596.5	660.5	721.9	747.8
62.5°	515.8	538.1	602.9	668.9	693.1
65°	452.6	480.5	551.0	612.2	642.1
67.5°	399.0	425.8	495.5	559.5	585.4
70°	338.7	370.2	439.7	504.8	532.4
72.5°	282.0	313.6	385.0	450.0	477.7
75°	229.2	263.4	331.3	390.6	405.5
77.5°	178.2	210.6	278.3	312.7	328.5
80°	128.9	160.5	210.6	233.8	237.5
82.5°	87.2	114.2	143.0	149.4	145.8
85°	50.2	64.0	72.4	72.4	67.7
87.5°	20.3	20.3	17.7	11.0	6.5
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)