

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: P881129

Luminaire Tested: **22CZ2-44VHE-S-UNV-B40**

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: P881129
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-S-UNV-B40
Description: 2X2 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

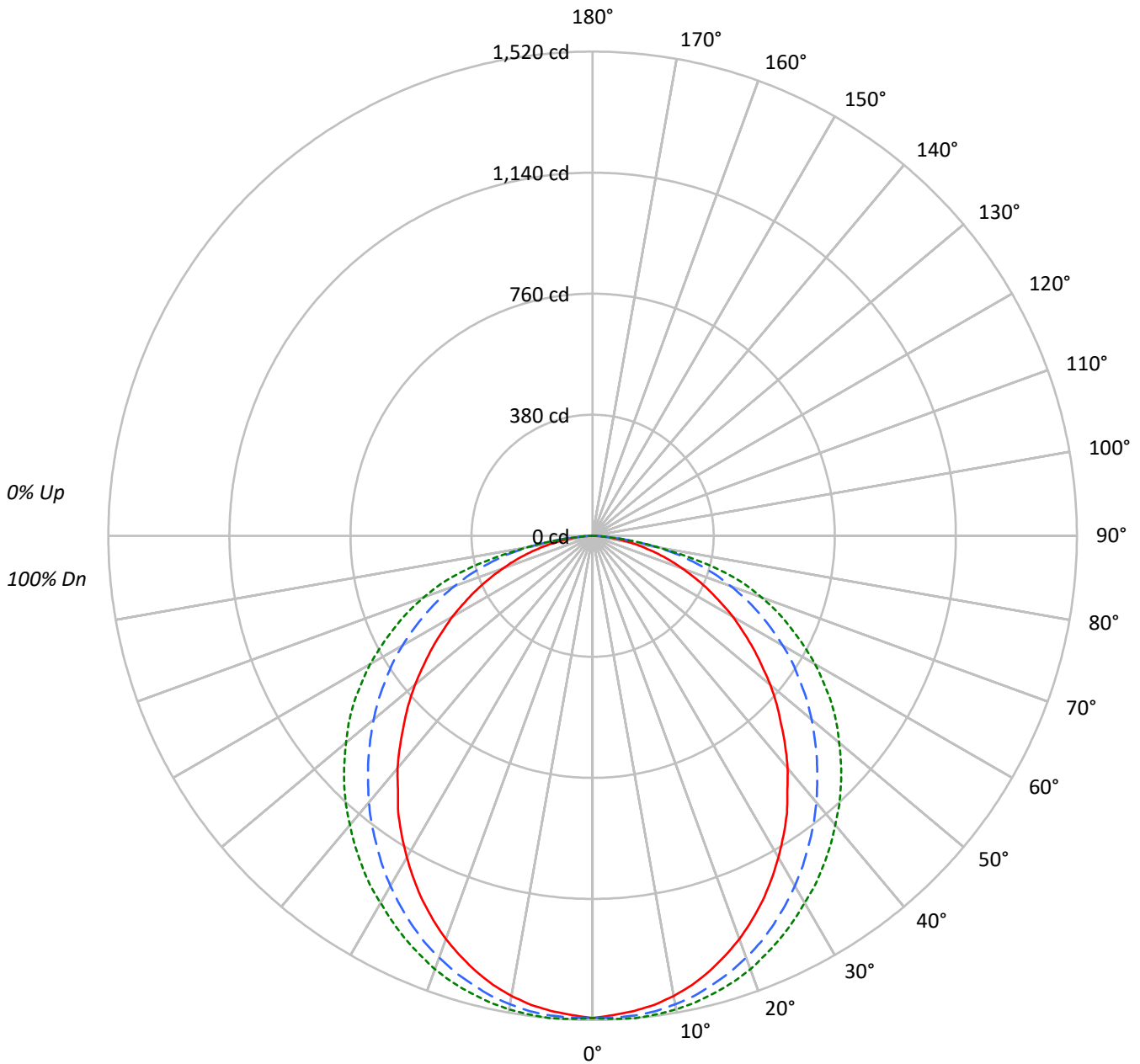
Lumens per Lamp: N/A
Luminaire Lumens: 4334.0 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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°	4296	4296	4296
5°	4265	4306	4330
10°	4226	4303	4350
15°	4158	4284	4363
20°	4068	4255	4372
25°	3955	4212	4367
30°	3821	4159	4361
35°	3683	4097	4375
40°	3528	4046	4389
45°	3360	3995	4425
50°	3215	3959	4459
55°	3042	3927	4529
60°	2884	3912	4577
65°	2692	3881	4613
70°	2473	3821	4676
75°	2234	3720	4509
80°	1913	3296	3394
85°	1540	1940	1540



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.5	3.3
10°-20°	410.4	9.5
20°-30°	616.4	14.2
30°-40°	735.1	17.0
40°-50°	760.0	17.5
50°-60°	698.7	16.1
60°-70°	556.2	12.8
70°-80°	339.8	7.8
80°-90°	73.8	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°	1170.3	27.0
0°-40°	1905.3	44.0
0°-60°	3364.1	77.6
0°-90°	4334.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4334.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1514	1514	1514	1514	1514	
5°	1497	1502	1512	1518	1520	142
15°	1415	1432	1458	1479	1485	399
25°	1263	1294	1345	1382	1395	581
35°	1063	1109	1183	1245	1263	663
45°	837	897	996	1076	1103	647
55°	615	683	794	884	915	550
65°	401	469	578	658	687	397
75°	204	263	339	399	411	217
85°	47	58	60	52	47	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1513.9	1513.9	1513.9	1513.9	1513.9
2.5°	1505.8	1507.7	1513.9	1518.1	1518.1
5°	1497.4	1501.6	1511.8	1518.1	1520.2
7.5°	1485.3	1491.4	1505.8	1513.9	1516.3
10°	1466.7	1475.0	1493.4	1505.8	1509.7
12.5°	1444.1	1456.4	1479.0	1495.5	1499.5
15°	1415.4	1431.7	1458.3	1479.0	1485.3
17.5°	1382.4	1402.9	1435.9	1460.6	1468.8
20°	1347.2	1367.9	1409.1	1437.8	1448.0
22.5°	1306.2	1333.0	1380.3	1413.3	1421.5
25°	1263.1	1293.9	1345.3	1382.4	1394.7
27.5°	1215.6	1252.9	1308.3	1353.7	1364.0
30°	1166.3	1205.4	1269.2	1318.6	1330.9
32.5°	1114.8	1160.2	1228.0	1283.6	1300.2
35°	1063.3	1108.7	1182.8	1244.7	1263.1
37.5°	1003.7	1057.3	1139.7	1203.5	1225.9
40°	952.5	1003.7	1092.4	1162.3	1184.9
42.5°	894.7	950.4	1043.1	1119.0	1145.8
45°	837.2	896.8	995.6	1075.9	1102.7
47.5°	783.6	843.3	946.2	1030.7	1057.3
50°	728.2	789.9	896.8	983.2	1010.0
52.5°	668.6	736.4	847.4	933.8	964.8
55°	615.0	682.8	793.9	884.5	915.4
57.5°	559.4	629.5	744.7	831.1	860.0
60°	508.1	575.9	689.3	773.4	806.5
62.5°	452.5	522.3	633.4	715.9	746.8
65°	401.0	469.0	578.0	658.3	687.0
67.5°	349.5	417.8	520.2	596.6	629.5
70°	298.1	366.3	460.6	534.9	563.6
72.5°	253.1	312.8	403.1	471.1	497.9
75°	203.8	263.4	339.3	398.9	411.3
77.5°	158.4	211.9	275.7	302.3	306.7
80°	117.1	158.4	201.7	207.7	207.7
82.5°	78.0	109.0	125.5	127.4	125.5
85°	47.3	57.5	59.6	51.5	47.3
87.5°	16.3	16.3	10.2	6.1	2.1
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)