

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: P881139

Luminaire Tested: **22CZ2-50VHE-HRP-UNV-B50**

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: P881139
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P475114)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-50VHE-HRP-UNV-B50
Description: 2X2 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

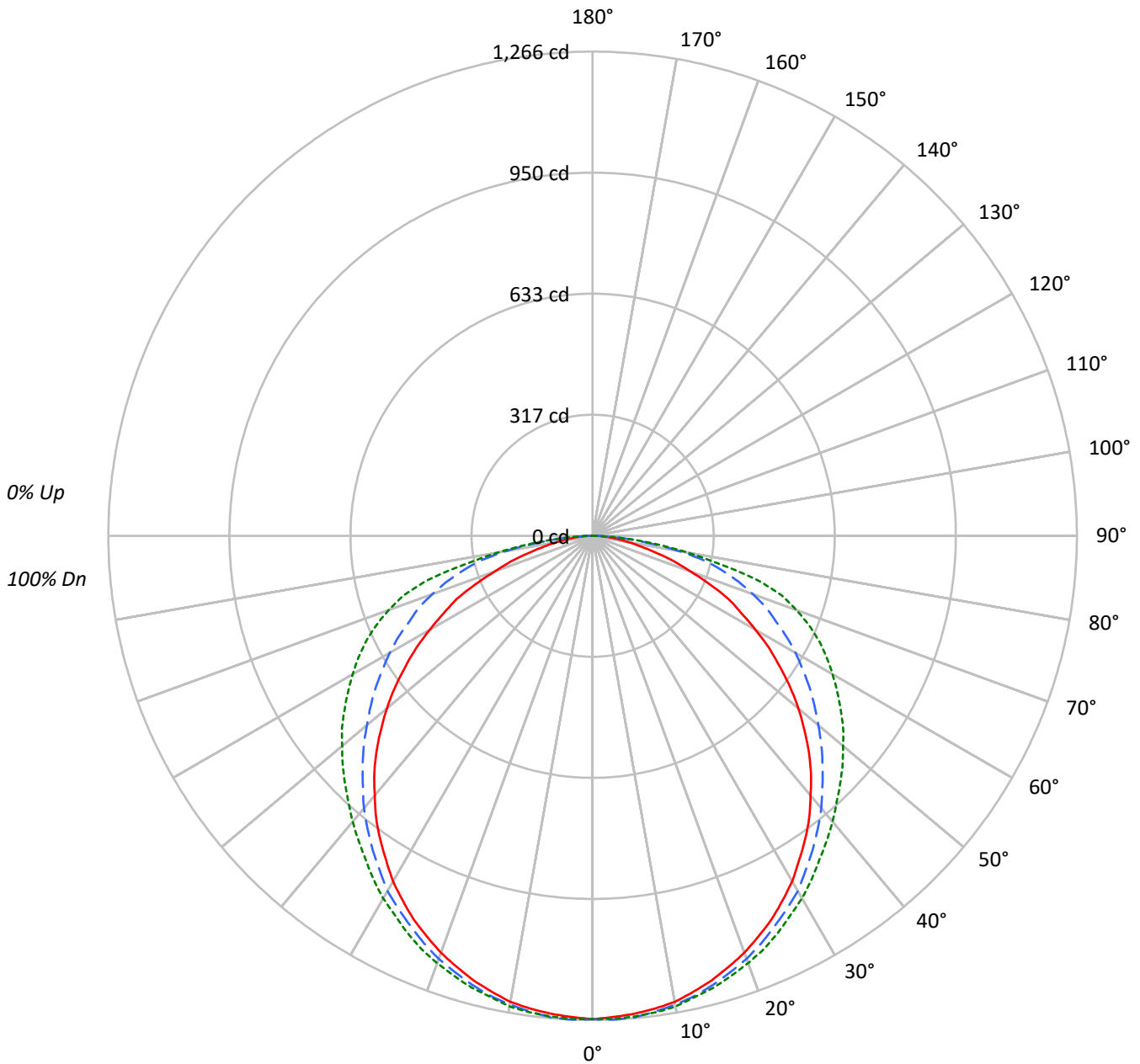
Lumens per Lamp: N/A
Luminaire Lumens: 3839.0 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 42
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	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	87	84	82																			
2	98	89	82	76	95	87	80	75	84	78	73	80	75	71	77	73	70	68																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56																			
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36																			
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31																			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28																			
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	31	27	25																			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3587	3587	3587
5°	3573	3601	3594
10°	3566	3586	3601
15°	3536	3571	3593
20°	3503	3554	3590
25°	3465	3526	3587
30°	3420	3515	3587
35°	3356	3473	3582
40°	3283	3445	3615
45°	3207	3412	3674
50°	3100	3400	3773
55°	2959	3427	3917
60°	2790	3477	4109
65°	2635	3544	4390
70°	2250	3697	4701
75°	1886	3851	4885
80°	1546	3721	4075
85°	1338	2758	2992



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.8	3.1
10°-20°	342.7	8.9
20°-30°	519.4	13.5
30°-40°	627.2	16.3
40°-50°	659.0	17.2
50°-60°	620.1	16.2
60°-70°	517.0	13.5
70°-80°	342.6	8.9
80°-90°	91.3	2.4
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°	981.9	25.6
0°-40°	1609.1	41.9
0°-60°	2888.2	75.2
0°-90°	3839.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3839.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1264	1264	1264	1264	1264	
5°	1254	1257	1264	1264	1262	119
15°	1204	1208	1216	1221	1223	339
25°	1107	1114	1126	1141	1146	510
35°	969	978	1003	1025	1034	606
45°	799	811	850	894	916	616
55°	598	625	693	763	792	535
65°	392	426	528	615	654	382
75°	172	240	351	424	446	187
85°	41	63	85	92	92	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1264.1	1264.1	1264.1	1264.1	1264.1
2.5°	1259.3	1261.7	1266.5	1266.5	1264.1
5°	1254.4	1256.8	1264.1	1264.1	1261.7
7.5°	1247.2	1249.8	1254.4	1259.3	1256.8
10°	1237.5	1239.9	1244.7	1249.8	1249.8
12.5°	1220.6	1223.0	1232.7	1235.3	1235.3
15°	1203.6	1208.5	1215.7	1220.6	1223.0
17.5°	1181.8	1186.7	1196.4	1206.0	1206.0
20°	1160.1	1164.9	1177.0	1186.7	1188.9
22.5°	1133.5	1140.7	1152.8	1164.9	1169.7
25°	1106.8	1114.1	1126.2	1140.7	1145.6
27.5°	1075.2	1082.4	1099.6	1116.5	1118.7
30°	1043.7	1051.0	1072.7	1087.2	1094.7
32.5°	1005.0	1014.7	1036.4	1058.2	1065.5
35°	968.7	978.4	1002.6	1024.6	1034.0
37.5°	930.0	939.4	966.3	993.1	1005.0
40°	886.2	898.5	930.0	959.0	976.0
42.5°	845.3	857.4	888.9	927.6	944.5
45°	799.1	811.2	850.2	893.5	915.5
47.5°	750.7	765.2	811.2	864.7	886.2
50°	702.3	719.3	770.1	830.6	854.8
52.5°	651.3	673.3	731.4	796.9	825.7
55°	598.1	624.9	692.7	762.8	791.8
57.5°	547.3	571.7	651.3	726.5	758.0
60°	491.6	523.1	612.6	690.0	724.1
62.5°	438.4	472.3	571.7	653.9	690.0
65°	392.4	426.0	527.9	615.0	653.9
67.5°	331.7	377.9	491.6	573.9	612.6
70°	271.2	334.1	445.6	530.3	566.6
72.5°	225.2	285.7	399.7	484.4	518.2
75°	172.0	239.8	351.3	423.9	445.6
77.5°	128.5	198.6	300.2	336.8	338.9
80°	94.6	152.4	227.7	239.8	249.4
82.5°	65.6	106.5	147.8	162.1	167.2
85°	41.1	62.9	84.7	91.9	91.9
87.5°	21.8	24.2	29.0	29.0	29.0
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)