

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: P881138

Luminaire Tested: **22CZ2-50VHE-HRP-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: P881138
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-B40
Description: 2X2 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

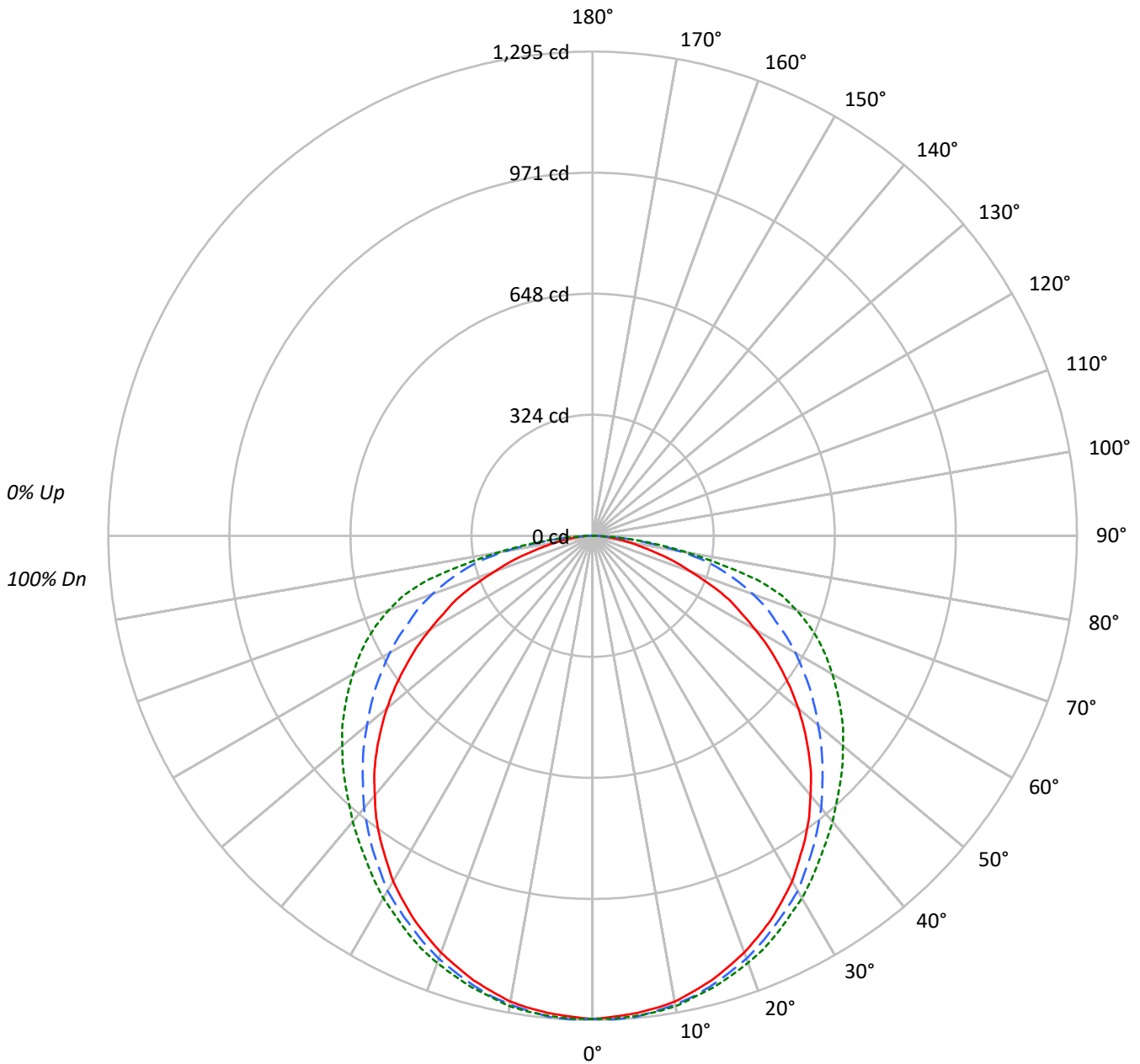
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3925.0 lumens
Efficiency: N/A
Efficacy: 93.5 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°	3667	3667	3667
5°	3653	3681	3674
10°	3645	3667	3682
15°	3615	3651	3673
20°	3582	3634	3670
25°	3543	3605	3667
30°	3496	3594	3667
35°	3431	3551	3662
40°	3356	3522	3696
45°	3279	3488	3756
50°	3170	3475	3858
55°	3025	3504	4005
60°	2852	3554	4201
65°	2694	3624	4489
70°	2301	3780	4806
75°	1928	3938	4995
80°	1580	3804	4167
85°	1371	2819	3060



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.5	3.1
10°-20°	350.4	8.9
20°-30°	531.0	13.5
30°-40°	641.2	16.3
40°-50°	673.8	17.2
50°-60°	633.9	16.2
60°-70°	528.6	13.5
70°-80°	350.3	8.9
80°-90°	93.3	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°	1004.0	25.6
0°-40°	1645.2	41.9
0°-60°	2952.9	75.2
0°-90°	3925.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3925.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1292	1292	1292	1292	1292	
5°	1282	1285	1292	1292	1290	122
15°	1231	1236	1243	1248	1250	347
25°	1132	1139	1151	1166	1171	521
35°	990	1000	1025	1048	1057	619
45°	817	829	869	914	936	629
55°	612	639	708	780	810	547
65°	401	436	540	629	669	390
75°	176	245	359	433	456	191
85°	42	64	87	94	94	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1292.4	1292.4	1292.4	1292.4	1292.4
2.5°	1287.5	1289.9	1294.9	1294.9	1292.4
5°	1282.5	1285.0	1292.4	1292.4	1289.9
7.5°	1275.1	1277.8	1282.5	1287.5	1285.0
10°	1265.2	1267.7	1272.6	1277.8	1277.8
12.5°	1247.9	1250.4	1260.3	1263.0	1263.0
15°	1230.6	1235.5	1243.0	1247.9	1250.4
17.5°	1208.3	1213.3	1223.2	1233.1	1233.1
20°	1186.1	1191.0	1203.4	1213.3	1215.5
22.5°	1158.9	1166.3	1178.6	1191.0	1196.0
25°	1131.6	1139.1	1151.4	1166.3	1171.2
27.5°	1099.2	1106.7	1124.2	1141.5	1143.8
30°	1067.1	1074.5	1096.8	1111.6	1119.3
32.5°	1027.5	1037.4	1059.7	1081.9	1089.3
35°	990.4	1000.3	1025.0	1047.5	1057.2
37.5°	950.8	960.5	987.9	1015.4	1027.5
40°	906.1	918.7	950.8	980.5	997.8
42.5°	864.3	876.6	908.8	948.4	965.7
45°	817.0	829.4	869.2	913.5	936.0
47.5°	767.5	782.4	829.4	884.0	906.1
50°	718.1	735.4	787.3	849.2	873.9
52.5°	665.9	688.4	747.7	814.8	844.2
55°	611.5	638.9	708.2	779.9	809.6
57.5°	559.5	584.5	665.9	742.8	775.0
60°	502.6	534.8	626.3	705.5	740.3
62.5°	448.2	482.8	584.5	668.6	705.5
65°	401.2	435.6	539.7	628.8	668.6
67.5°	339.1	386.4	502.6	586.7	626.3
70°	277.3	341.6	455.6	542.2	579.3
72.5°	230.3	292.1	408.6	495.2	529.8
75°	175.9	245.1	359.2	433.4	455.6
77.5°	131.3	203.1	307.0	344.3	346.5
80°	96.7	155.8	232.8	245.1	255.0
82.5°	67.0	108.8	151.1	165.7	170.9
85°	42.1	64.3	86.6	94.0	94.0
87.5°	22.3	24.7	29.7	29.7	29.7
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)