

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: P881145

Luminaire Tested: **22CZ2-50VHE-S-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: P881145
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: 22CZ2-50VHE-S-UNV-B50
Description: 2X2 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

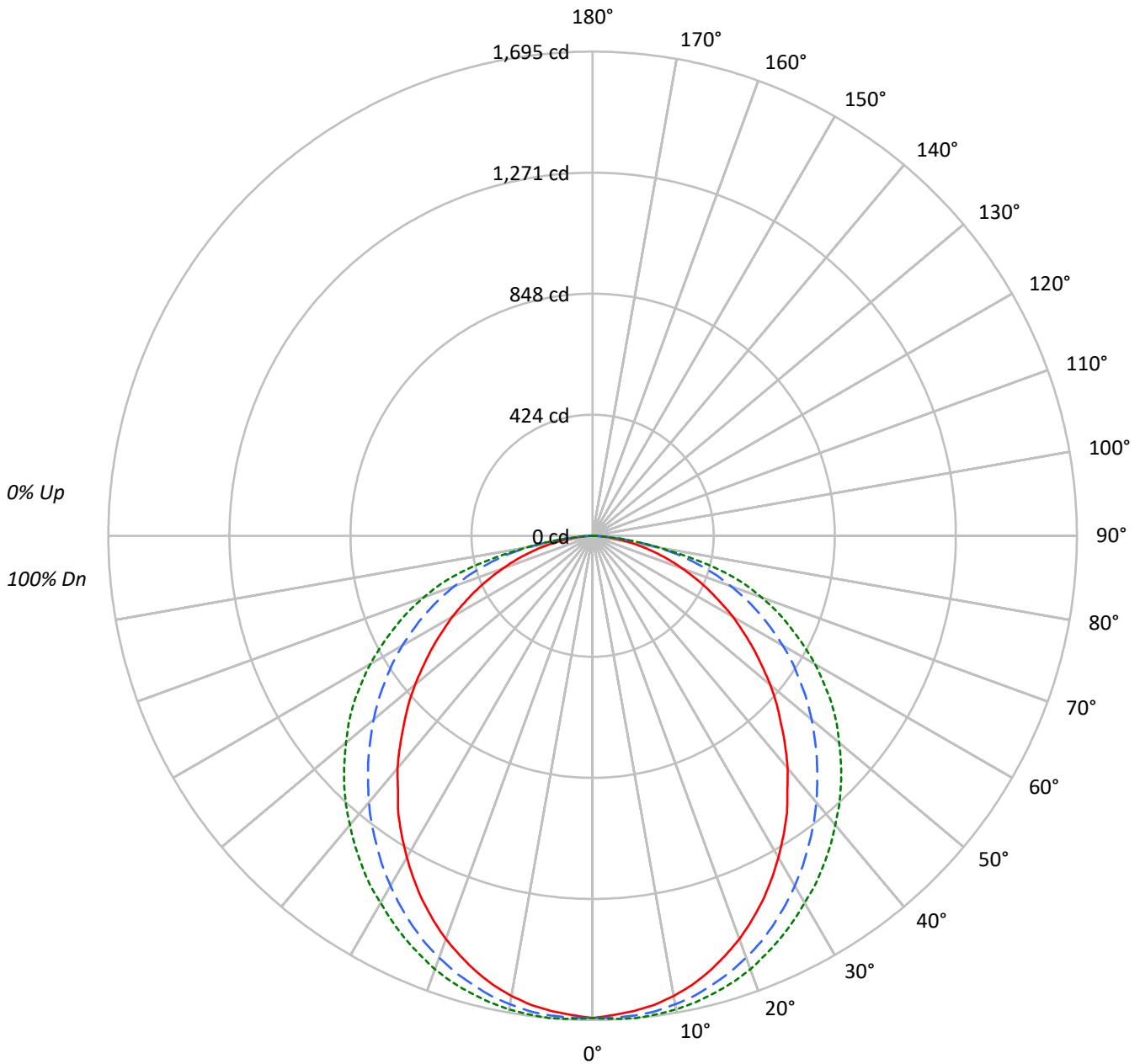
Lumens per Lamp: N/A
Luminaire Lumens: 4833.0 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	4790	4790	4790
5°	4756	4802	4829
10°	4712	4799	4851
15°	4637	4777	4866
20°	4536	4745	4876
25°	4410	4697	4869
30°	4261	4637	4863
35°	4107	4569	4879
40°	3934	4512	4894
45°	3746	4455	4934
50°	3585	4415	4972
55°	3393	4380	5050
60°	3215	4362	5104
65°	3003	4328	5144
70°	2758	4262	5214
75°	2491	4149	5028
80°	2134	3675	3785
85°	1716	2165	1716



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.1	3.3
10°-20°	457.6	9.5
20°-30°	687.3	14.2
30°-40°	819.7	17.0
40°-50°	847.5	17.5
50°-60°	779.2	16.1
60°-70°	620.3	12.8
70°-80°	379.0	7.8
80°-90°	82.3	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°	1305.0	27.0
0°-40°	2124.7	44.0
0°-60°	3751.4	77.6
0°-90°	4833.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4833.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1688	1688	1688	1688	1688	
5°	1670	1674	1686	1693	1695	158
15°	1578	1597	1626	1649	1656	444
25°	1409	1443	1500	1542	1555	648
35°	1186	1236	1319	1388	1409	740
45°	934	1000	1110	1200	1230	722
55°	686	761	885	986	1021	613
65°	447	523	645	734	766	443
75°	227	294	378	445	459	242
85°	53	64	66	57	53	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1688.2	1688.2	1688.2	1688.2	1688.2
2.5°	1679.2	1681.2	1688.2	1692.9	1692.9
5°	1669.8	1674.5	1685.9	1692.9	1695.3
7.5°	1656.3	1663.1	1679.2	1688.2	1690.8
10°	1635.5	1644.9	1665.4	1679.2	1683.6
12.5°	1610.3	1624.1	1649.3	1667.7	1672.1
15°	1578.4	1596.6	1626.2	1649.3	1656.3
17.5°	1541.5	1564.4	1601.3	1628.8	1637.9
20°	1502.3	1525.4	1571.4	1603.3	1614.8
22.5°	1456.6	1486.5	1539.2	1576.1	1585.2
25°	1408.6	1442.8	1500.2	1541.5	1555.3
27.5°	1355.6	1397.1	1458.9	1509.6	1521.0
30°	1300.5	1344.2	1415.3	1470.4	1484.1
32.5°	1243.1	1293.8	1369.3	1431.4	1449.9
35°	1185.7	1236.4	1319.0	1388.0	1408.6
37.5°	1119.3	1179.0	1270.9	1342.1	1367.0
40°	1062.1	1119.3	1218.2	1296.1	1321.3
42.5°	997.7	1059.8	1163.2	1247.8	1277.7
45°	933.6	1000.1	1110.2	1199.8	1229.6
47.5°	873.9	940.3	1055.1	1149.4	1179.0
50°	812.1	880.9	1000.1	1096.4	1126.3
52.5°	745.6	821.1	945.0	1041.4	1075.9
55°	685.8	761.4	885.3	986.3	1020.8
57.5°	623.8	701.9	830.5	926.8	959.0
60°	566.6	642.2	768.7	862.4	899.3
62.5°	504.6	582.5	706.4	798.3	832.8
65°	447.2	523.0	644.6	734.1	766.1
67.5°	389.8	465.9	580.1	665.3	701.9
70°	332.4	408.5	513.7	596.5	628.5
72.5°	282.3	348.8	449.5	525.4	555.2
75°	227.2	293.7	378.4	444.9	458.6
77.5°	176.6	236.3	307.5	337.1	342.0
80°	130.6	176.6	224.9	231.6	231.6
82.5°	87.0	121.5	140.0	142.1	140.0
85°	52.7	64.1	66.5	57.4	52.7
87.5°	18.2	18.2	11.4	6.8	2.3
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)