

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: P880788

Luminaire Tested: **22CZ2-50VHE-S-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: P880788
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-B2750-W2D-3000K
Description: 2X2 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

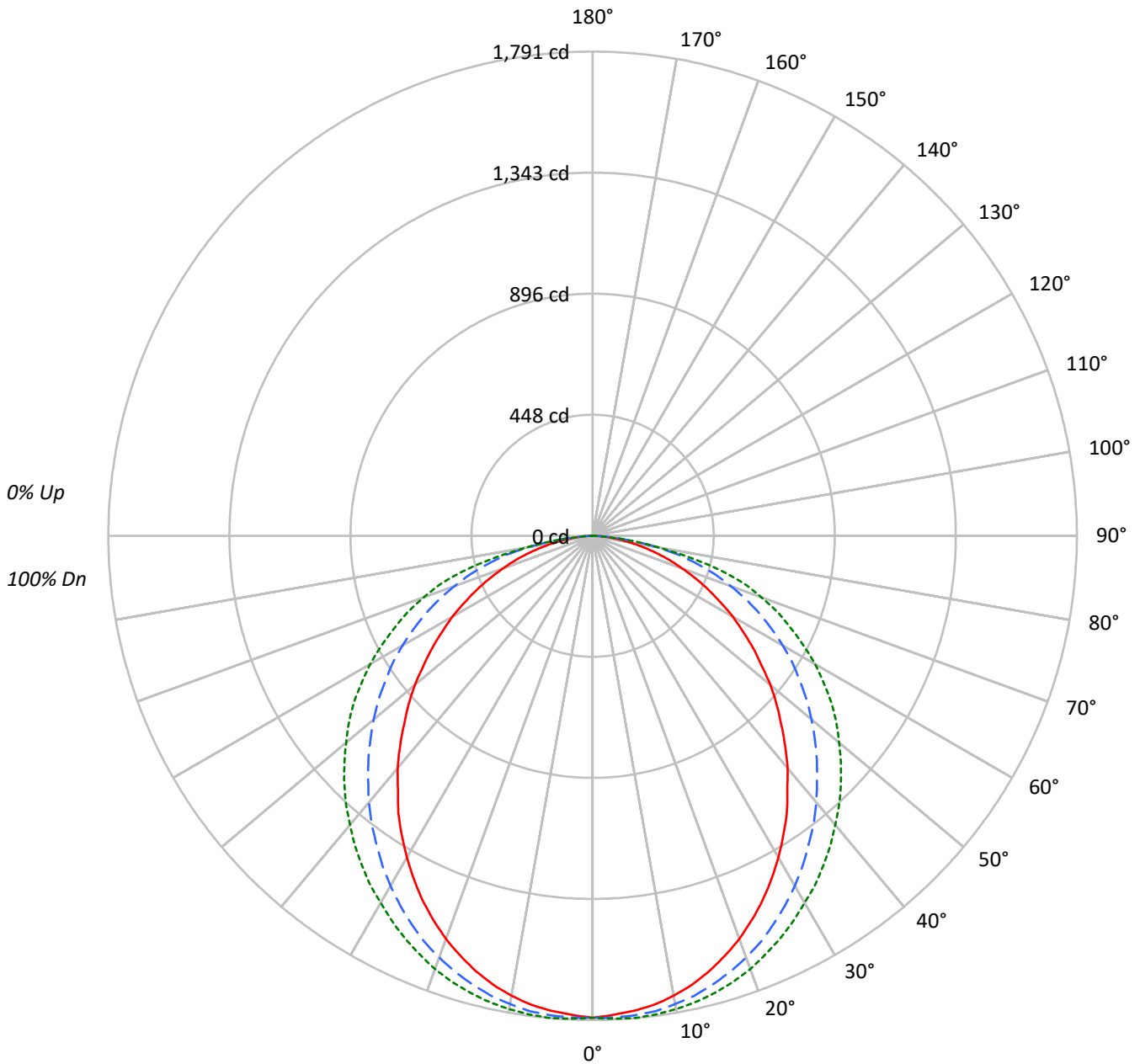
Lumens per Lamp: N/A
Luminaire Lumens: 5105.0 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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°	5060	5060	5060
5°	5024	5072	5101
10°	4978	5069	5124
15°	4898	5046	5139
20°	4792	5012	5150
25°	4658	4961	5143
30°	4501	4898	5137
35°	4339	4826	5154
40°	4156	4766	5170
45°	3957	4706	5212
50°	3787	4663	5252
55°	3584	4626	5334
60°	3397	4608	5391
65°	3172	4571	5433
70°	2913	4502	5507
75°	2631	4382	5311
80°	2255	3881	3999
85°	1813	2286	1813



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.1	3.3
10°-20°	483.4	9.5
20°-30°	726.0	14.2
30°-40°	865.9	17.0
40°-50°	895.2	17.5
50°-60°	823.0	16.1
60°-70°	655.2	12.8
70°-80°	400.3	7.8
80°-90°	87.0	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°	1378.4	27.0
0°-40°	2244.3	44.0
0°-60°	3962.5	77.6
0°-90°	5105.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5105.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1783	1783	1783	1783	1783	
5°	1764	1769	1781	1788	1791	167
15°	1667	1686	1718	1742	1750	469
25°	1488	1524	1585	1628	1643	684
35°	1252	1306	1393	1466	1488	781
45°	986	1056	1173	1267	1299	763
55°	724	804	935	1042	1078	648
65°	472	552	681	776	809	468
75°	240	310	400	470	484	256
85°	56	68	70	61	56	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1783.3	1783.3	1783.3	1783.3	1783.3
2.5°	1773.7	1775.9	1783.3	1788.2	1788.2
5°	1763.8	1768.7	1780.8	1788.2	1790.7
7.5°	1749.5	1756.7	1773.7	1783.3	1786.0
10°	1727.6	1737.5	1759.1	1773.7	1778.3
12.5°	1701.0	1715.5	1742.1	1761.6	1766.3
15°	1667.2	1686.4	1717.7	1742.1	1749.5
17.5°	1628.3	1652.4	1691.4	1720.4	1730.0
20°	1586.9	1611.3	1659.8	1693.6	1705.6
22.5°	1538.6	1570.1	1625.8	1664.8	1674.4
25°	1487.8	1524.0	1584.7	1628.3	1642.8
27.5°	1431.9	1475.8	1541.1	1594.5	1606.6
30°	1373.7	1419.8	1495.0	1553.1	1567.7
32.5°	1313.1	1366.6	1446.4	1512.0	1531.5
35°	1252.5	1306.0	1393.2	1466.2	1487.8
37.5°	1182.3	1245.3	1342.5	1417.6	1443.9
40°	1121.9	1182.3	1286.8	1369.1	1395.7
42.5°	1053.9	1119.4	1228.6	1318.0	1349.6
45°	986.1	1056.4	1172.7	1267.3	1298.8
47.5°	923.0	993.3	1114.5	1214.1	1245.3
50°	857.8	930.4	1056.4	1158.1	1189.7
52.5°	787.5	867.4	998.2	1100.0	1136.4
55°	724.4	804.3	935.1	1041.8	1078.3
57.5°	658.9	741.4	877.2	979.0	1013.0
60°	598.5	678.4	811.9	911.0	949.9
62.5°	533.0	615.3	746.1	843.2	879.7
65°	472.4	552.5	680.8	775.5	809.2
67.5°	411.7	492.1	612.8	702.8	741.4
70°	351.1	431.5	542.6	630.1	663.8
72.5°	298.2	368.4	474.8	554.9	586.5
75°	240.0	310.2	399.7	469.9	484.4
77.5°	186.5	249.6	324.8	356.0	361.3
80°	138.0	186.5	237.5	244.7	244.7
82.5°	91.9	128.4	147.9	150.0	147.9
85°	55.7	67.8	70.2	60.6	55.7
87.5°	19.2	19.2	12.1	7.1	2.5
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)