

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: P880772

Luminaire Tested: **22CZ2-50VHE-B2750-W2D-2700K**

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: P880772
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474795)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-50VHE-B2750-W2D-2700K
Description: 2X2 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

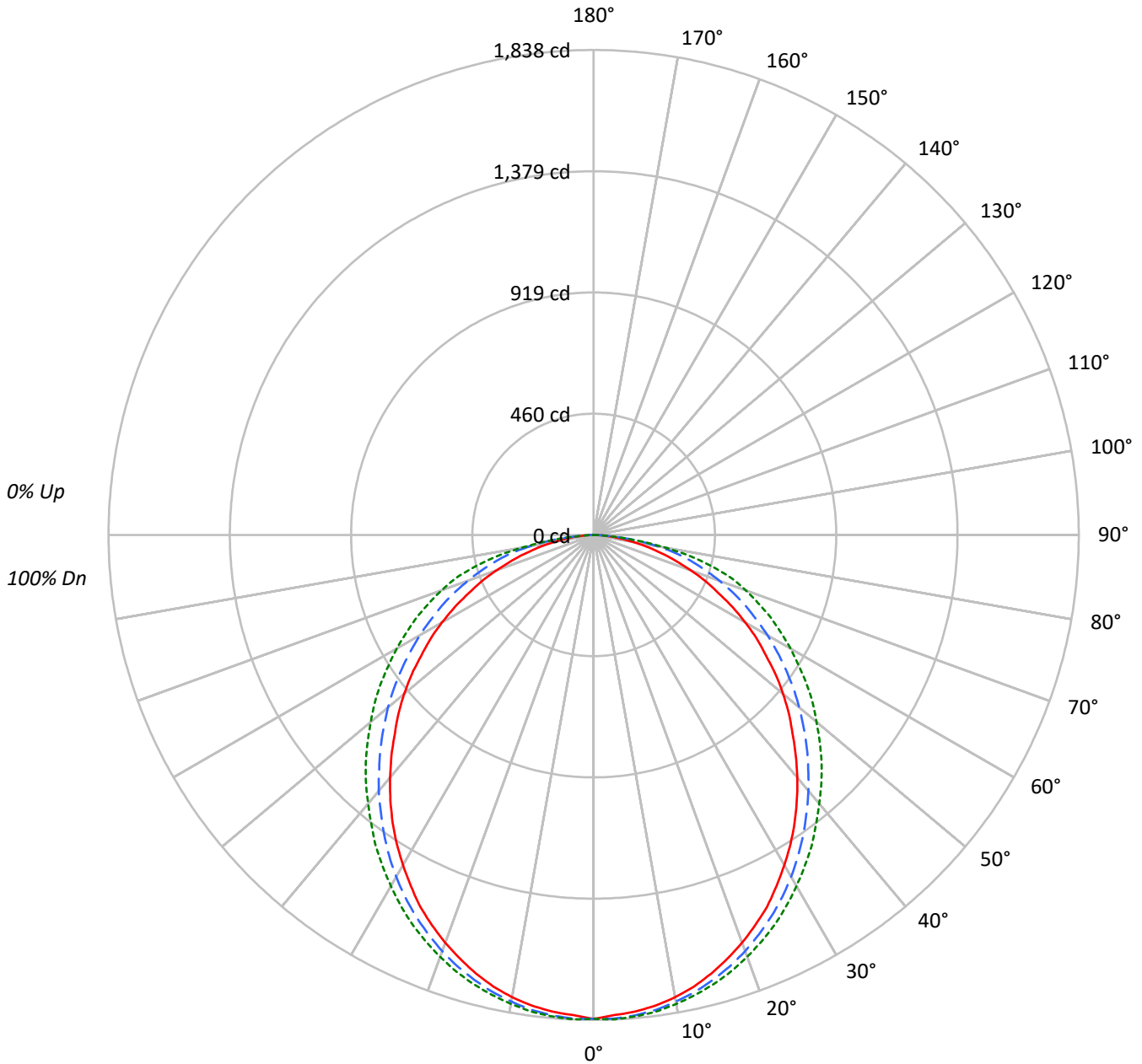
Lumens per Lamp: N/A
Luminaire Lumens: 5056.0 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.25 / 1.33
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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	77	85	79	75	81	77	73	78	75	71	69																			
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58																			
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50																			
5	76	63	54	47	73	62	53	47	59	52	46	57	51	46	56	50	45	43																			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38																			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33																			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30																			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27																			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5203	5203	5203
5°	5165	5205	5217
10°	5126	5175	5200
15°	5057	5129	5176
20°	4965	5068	5137
25°	4868	4992	5095
30°	4733	4901	5034
35°	4601	4797	4986
40°	4445	4691	4924
45°	4275	4584	4901
50°	4136	4490	4863
55°	3943	4393	4873
60°	3765	4317	4888
65°	3500	4261	4965
70°	3236	4201	5087
75°	2894	4184	5120
80°	2425	3964	4469
85°	1882	2715	2539



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.2	3.4
10°-20°	491.8	9.7
20°-30°	733.2	14.5
30°-40°	865.6	17.1
40°-50°	882.2	17.4
50°-60°	795.6	15.7
60°-70°	625.3	12.4
70°-80°	391.5	7.7
80°-90°	97.6	1.9
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°	1398.2	27.7
0°-40°	2263.8	44.8
0°-60°	3941.5	78.0
0°-90°	5056.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5056.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1834	1834	1834	1834	1834	
5°	1813	1818	1827	1831	1831	172
15°	1721	1729	1746	1759	1762	485
25°	1555	1566	1594	1619	1627	715
35°	1328	1345	1385	1423	1439	830
45°	1065	1089	1142	1198	1221	824
55°	797	822	888	956	985	715
65°	521	553	635	705	740	520
75°	264	303	382	450	467	280
85°	58	74	83	83	78	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1833.7	1833.7	1833.7	1833.7	1833.7
2.5°	1821.7	1826.2	1834.7	1837.9	1837.9
5°	1813.3	1817.5	1827.2	1831.4	1831.4
7.5°	1799.3	1803.5	1815.5	1820.7	1821.7
10°	1779.1	1784.4	1796.1	1804.8	1804.8
12.5°	1753.5	1758.7	1773.7	1784.4	1785.4
15°	1721.3	1728.8	1746.0	1758.7	1761.9
17.5°	1684.0	1695.7	1714.9	1731.1	1734.3
20°	1644.4	1656.1	1678.5	1696.7	1701.2
22.5°	1600.5	1611.3	1637.9	1660.6	1665.8
25°	1554.7	1566.4	1594.3	1618.7	1627.4
27.5°	1500.2	1514.1	1547.2	1574.9	1583.6
30°	1444.6	1461.8	1495.9	1526.8	1536.5
32.5°	1388.1	1404.0	1442.4	1475.5	1488.5
35°	1328.1	1345.2	1384.9	1423.2	1439.4
37.5°	1265.0	1282.2	1325.1	1368.7	1383.6
40°	1200.0	1220.2	1266.3	1313.1	1329.3
42.5°	1133.8	1155.0	1203.0	1255.6	1276.8
45°	1065.3	1088.7	1142.3	1197.8	1221.2
47.5°	1003.3	1022.4	1078.2	1139.0	1161.4
50°	937.0	955.2	1017.2	1078.2	1101.7
52.5°	869.8	887.0	953.2	1017.2	1046.1
55°	797.0	821.7	887.9	956.2	985.1
57.5°	733.0	755.4	823.9	893.2	921.1
60°	663.5	686.9	760.7	831.4	861.3
62.5°	594.0	619.7	694.4	770.4	798.3
65°	521.3	553.4	634.6	705.1	739.5
67.5°	459.5	490.4	570.6	644.4	674.2
70°	390.0	426.4	506.4	581.3	613.2
72.5°	324.8	361.2	443.4	518.3	550.2
75°	264.0	303.4	381.6	449.8	467.0
77.5°	205.2	242.6	320.6	360.2	378.3
80°	148.4	184.8	242.6	269.2	273.5
82.5°	100.4	131.5	164.6	172.1	167.9
85°	57.8	73.7	83.4	83.4	78.0
87.5°	23.4	23.4	20.4	12.7	7.5
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)