

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: P881225

Luminaire Tested: **24CZ2-50VHE-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: P881225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P473819)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-50VHE-UNV-B40
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

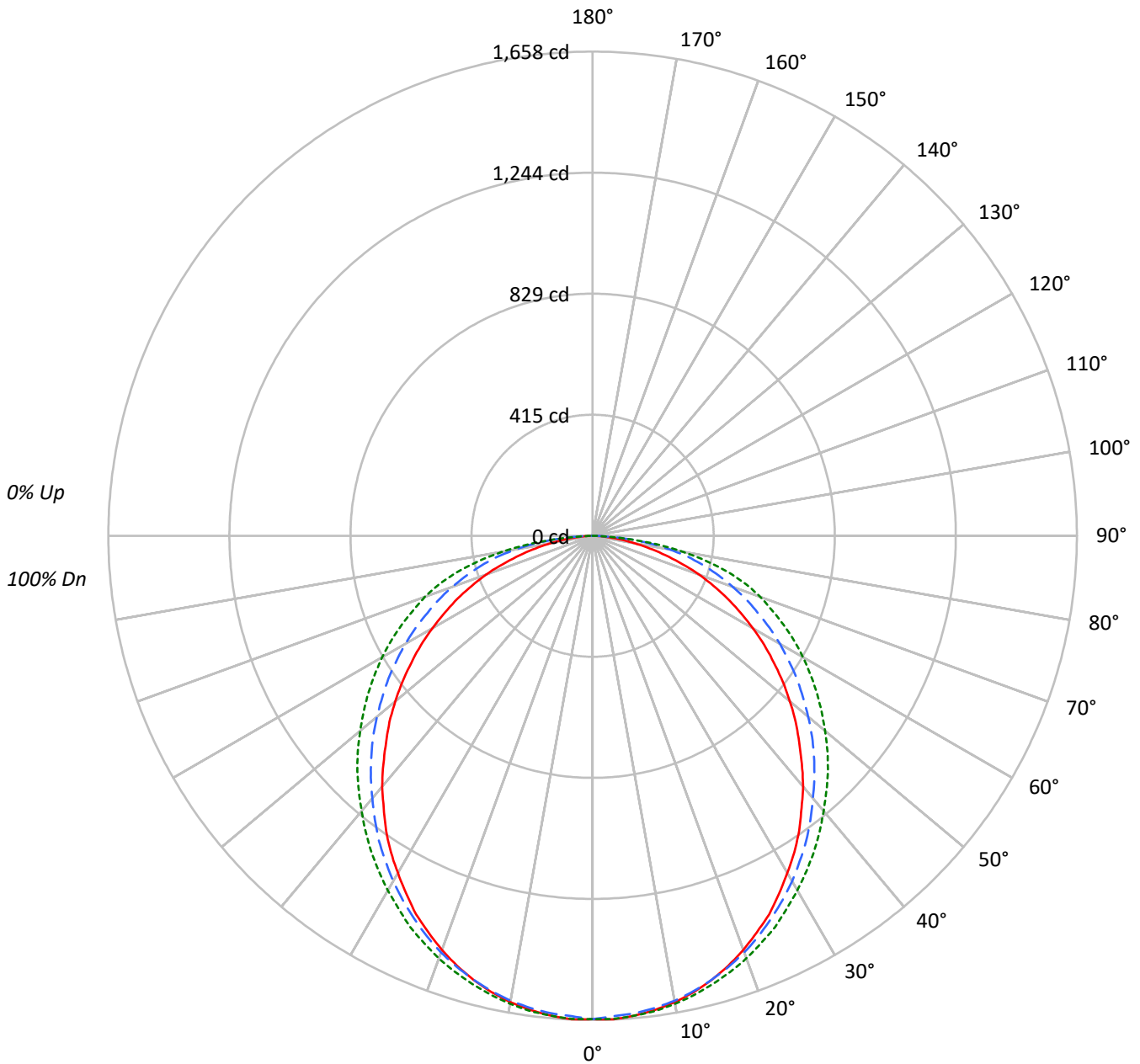
Lumens per Lamp: N/A
Luminaire Lumens: 4790.0 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 38
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	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83																			
2	98	89	82	76	95	88	81	75	84	78	74	81	76	72	78	74	70	68																			
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57																			
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48																			
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42																			
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37																			
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32																			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29																			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2336	2336	2336
5°	2337	2325	2337
10°	2325	2317	2332
15°	2301	2300	2322
20°	2266	2280	2313
25°	2227	2252	2302
30°	2173	2226	2285
35°	2124	2197	2276
40°	2066	2161	2267
45°	1995	2139	2274
50°	1935	2115	2280
55°	1864	2100	2306
60°	1787	2090	2348
65°	1703	2083	2409
70°	1603	2104	2519
75°	1410	2148	2621
80°	1177	2164	2528
85°	840	1854	1878



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.5	3.3
10°-20°	445.7	9.3
20°-30°	668.6	14.0
30°-40°	798.3	16.7
40°-50°	826.9	17.3
50°-60°	761.2	15.9
60°-70°	614.0	12.8
70°-80°	401.2	8.4
80°-90°	117.6	2.5
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°	1270.8	26.5
0°-40°	2069.1	43.2
0°-60°	3657.2	76.3
0°-90°	4790.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4790.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1655	1655	1655	1655	1655	
5°	1650	1648	1641	1651	1650	157
15°	1575	1575	1574	1590	1590	444
25°	1430	1433	1446	1473	1478	658
35°	1233	1244	1275	1310	1321	770
45°	1000	1025	1072	1120	1139	773
55°	758	790	854	916	937	678
65°	510	545	624	695	721	504
75°	258	307	394	462	481	276
85°	52	90	114	122	116	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1655.2	1655.2	1655.2	1655.2	1655.2
2.5°	1657.5	1655.2	1646.7	1656.8	1656.0
5°	1649.8	1648.3	1641.3	1650.6	1649.8
7.5°	1637.4	1636.7	1631.3	1641.3	1641.3
10°	1622.0	1620.4	1616.6	1628.2	1627.4
12.5°	1600.4	1599.6	1597.3	1611.2	1610.4
15°	1574.7	1574.7	1573.9	1589.5	1589.5
17.5°	1543.8	1544.6	1547.7	1565.4	1566.2
20°	1509.0	1512.1	1518.3	1538.4	1539.9
22.5°	1469.5	1475.7	1484.2	1506.7	1509.0
25°	1430.1	1433.2	1446.3	1472.6	1478.0
27.5°	1382.0	1389.9	1406.9	1433.9	1439.3
30°	1333.3	1344.2	1365.8	1393.8	1402.3
32.5°	1285.3	1294.7	1320.2	1351.9	1361.9
35°	1232.8	1243.6	1275.2	1310.2	1321.0
37.5°	1174.7	1191.7	1225.0	1265.2	1276.8
40°	1121.3	1136.8	1173.1	1218.1	1230.4
42.5°	1060.2	1079.5	1123.7	1169.2	1184.7
45°	999.7	1024.6	1071.7	1119.8	1139.1
47.5°	943.3	963.4	1019.2	1073.3	1090.3
50°	881.4	904.6	963.4	1020.8	1038.5
52.5°	820.3	848.2	907.6	968.1	987.4
55°	757.6	790.1	853.6	916.3	937.2
57.5°	697.2	729.8	795.5	862.1	883.7
60°	633.1	667.8	740.6	804.7	831.9
62.5°	571.1	605.9	682.5	752.2	777.7
65°	509.9	544.8	623.8	694.9	721.3
67.5°	446.6	484.4	568.8	637.7	663.2
70°	388.5	424.8	509.9	583.5	610.5
72.5°	321.9	365.3	452.0	524.6	550.2
75°	258.5	307.2	393.9	462.0	480.6
77.5°	199.6	248.5	335.0	386.1	397.7
80°	144.8	194.2	266.2	301.8	311.0
82.5°	93.6	144.8	192.7	216.6	219.7
85°	51.9	89.8	114.5	121.5	116.0
87.5°	18.5	34.0	33.2	27.0	21.6
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)