

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: P881218

Luminaire Tested: **24CZ2-50VHE-S-UNV-B35**

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: P881218
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P473969)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-50VHE-S-UNV-B35
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

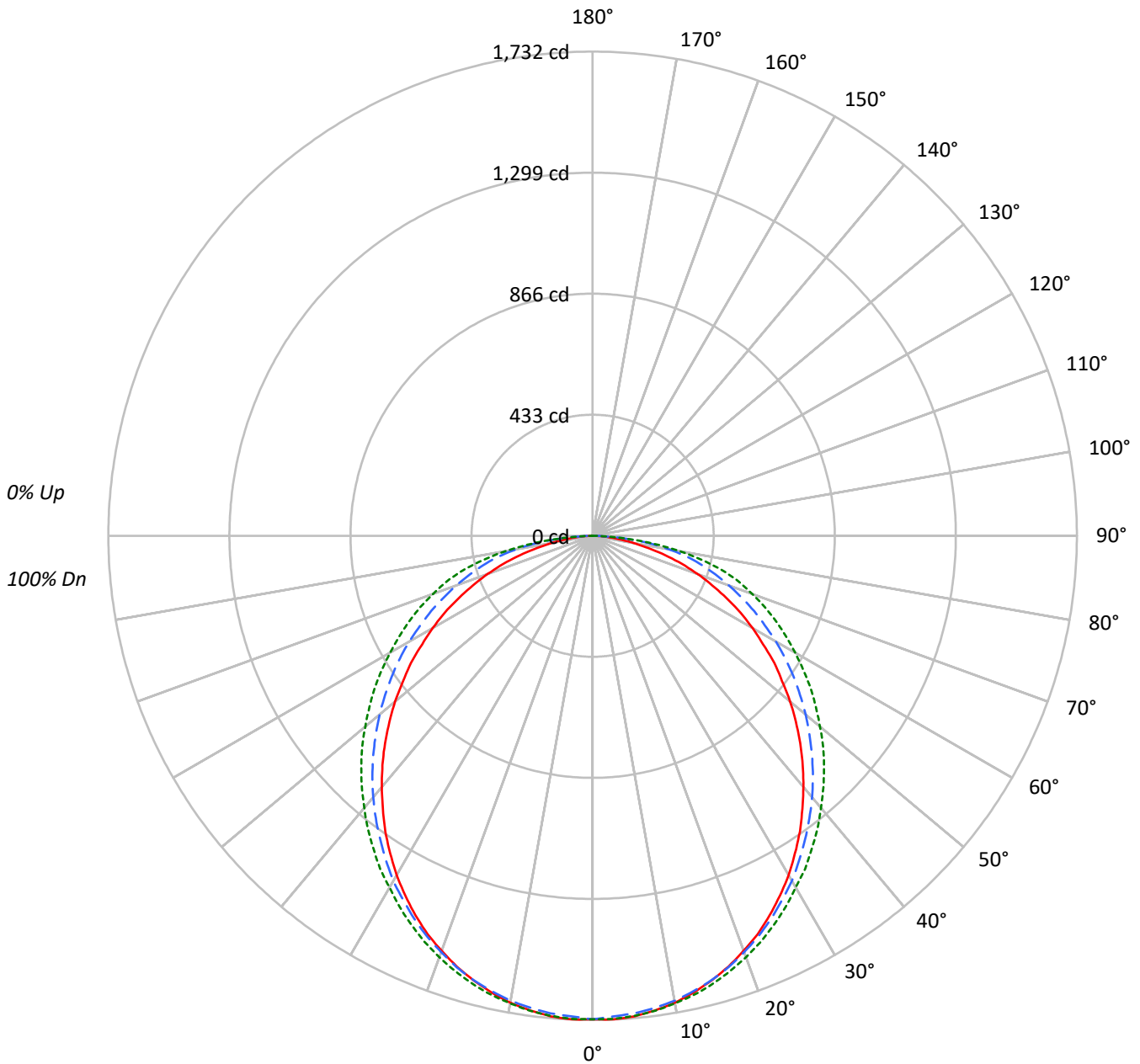
Lumens per Lamp: N/A
Luminaire Lumens: 4955.0 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68																			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	59	57																			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	55	51	49																			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32																			
8	60	46	38	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29																			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2441	2441	2441
5°	2445	2429	2442
10°	2431	2420	2434
15°	2406	2404	2425
20°	2373	2380	2409
25°	2333	2353	2390
30°	2284	2324	2367
35°	2227	2283	2354
40°	2161	2249	2341
45°	2096	2214	2336
50°	2025	2184	2330
55°	1953	2157	2343
60°	1863	2136	2359
65°	1764	2128	2416
70°	1646	2140	2502
75°	1465	2201	2636
80°	1197	2249	2574
85°	844	1964	2003



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.5	3.3
10°-20°	465.7	9.4
20°-30°	698.1	14.1
30°-40°	831.4	16.8
40°-50°	857.3	17.3
50°-60°	782.3	15.8
60°-70°	625.5	12.6
70°-80°	408.6	8.2
80°-90°	122.7	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°	1327.3	26.8
0°-40°	2158.7	43.6
0°-60°	3798.2	76.7
0°-90°	4955.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4955.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1730	1730	1730	1730	1730	
5°	1726	1722	1715	1726	1724	164
15°	1646	1647	1646	1660	1660	464
25°	1498	1501	1511	1533	1535	690
35°	1292	1301	1325	1358	1366	807
45°	1050	1069	1109	1156	1170	810
55°	794	816	877	934	952	707
65°	528	564	637	700	724	524
75°	269	313	404	469	483	285
85°	52	94	121	124	124	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1729.6	1729.6	1729.6	1729.6	1729.6
2.5°	1732.0	1729.6	1720.5	1731.2	1729.6
5°	1725.5	1722.1	1714.8	1725.5	1723.9
7.5°	1712.4	1710.7	1703.4	1715.6	1714.0
10°	1696.1	1694.5	1688.8	1701.0	1698.6
12.5°	1673.4	1672.6	1668.5	1683.1	1681.5
15°	1646.4	1647.3	1645.6	1659.6	1659.6
17.5°	1615.6	1614.8	1618.0	1635.1	1633.5
20°	1579.7	1580.5	1584.6	1604.2	1604.2
22.5°	1542.4	1541.5	1550.5	1570.0	1571.6
25°	1498.3	1500.8	1511.3	1533.4	1535.0
27.5°	1451.1	1455.3	1468.3	1493.5	1495.9
30°	1401.6	1406.4	1425.9	1449.5	1452.7
32.5°	1347.0	1357.6	1375.4	1405.6	1413.7
35°	1292.4	1301.4	1325.1	1358.4	1366.5
37.5°	1232.2	1246.8	1273.8	1310.3	1321.0
40°	1172.8	1187.5	1220.8	1259.1	1270.5
42.5°	1112.5	1128.1	1166.3	1209.5	1221.6
45°	1050.0	1068.7	1109.3	1155.7	1170.3
47.5°	985.7	1007.6	1051.6	1102.0	1118.4
50°	922.2	944.1	994.6	1046.6	1061.4
52.5°	853.8	881.4	935.2	991.4	1006.0
55°	793.6	816.3	876.6	934.4	952.2
57.5°	722.8	753.6	817.9	876.6	893.6
60°	660.1	688.5	756.9	816.3	835.8
62.5°	596.6	625.8	694.2	761.8	779.8
65°	528.2	564.0	637.2	699.9	723.6
67.5°	463.1	500.5	575.5	642.1	666.6
70°	398.8	437.0	518.5	586.9	606.4
72.5°	335.3	375.3	459.9	526.6	549.4
75°	268.6	313.4	403.7	468.8	483.4
77.5°	205.9	255.6	346.7	390.7	401.3
80°	147.3	201.8	276.7	308.5	316.7
82.5°	96.8	149.7	206.7	223.8	221.3
85°	52.1	93.5	121.3	123.7	123.7
87.5°	20.3	37.5	38.3	29.2	27.6
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)