

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: P881259

Luminaire Tested: **24CZ2-65VHE-HRP-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: P881259
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474369)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-65VHE-HRP-UNV-B50
Description: 2X4 6500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

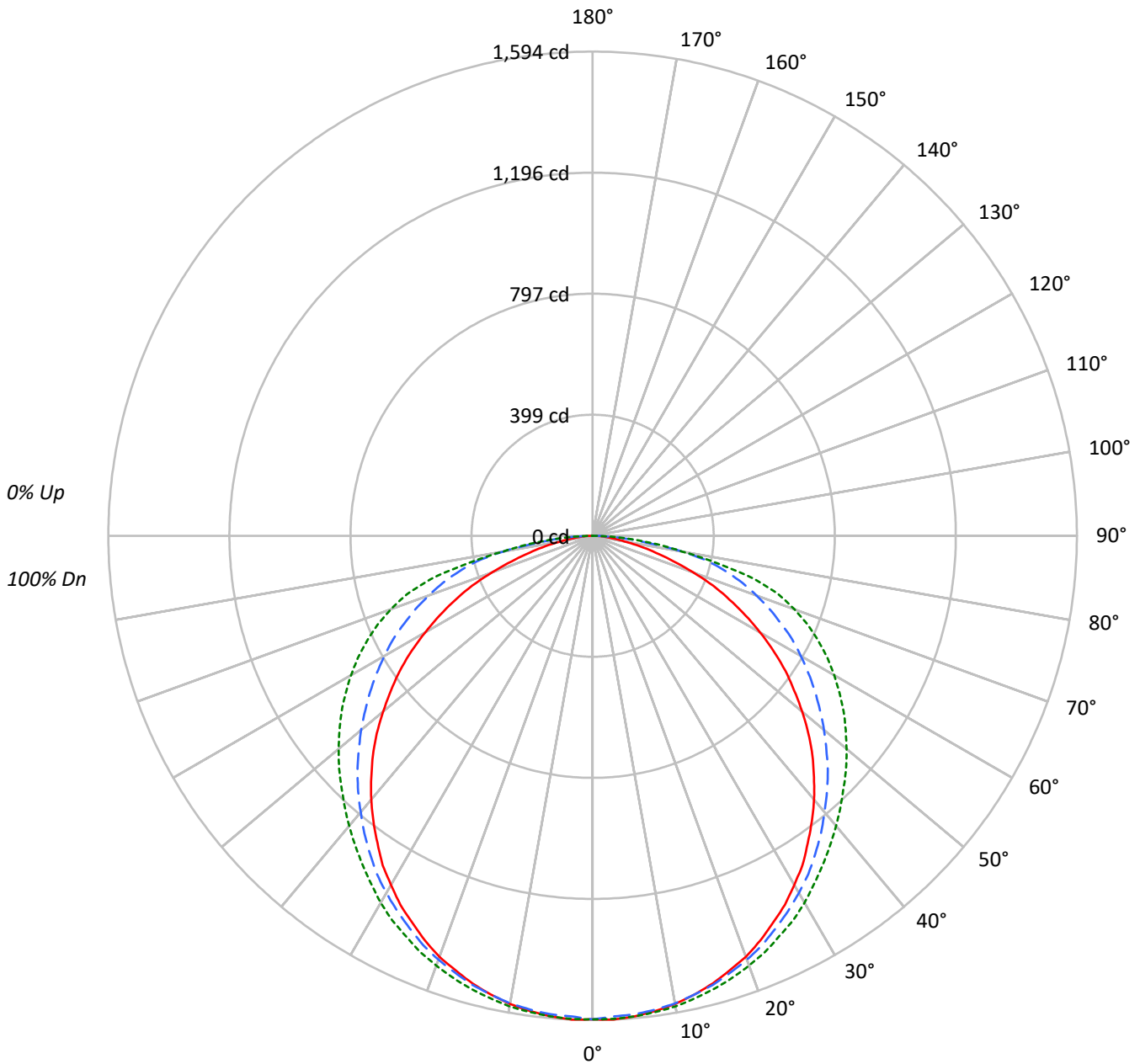
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4907.0 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 51
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

TEST NUMBER: P881259
CATALOG NUMBER: 24CZ2-65VHE-HRP-UNV-B50

Luminous Intensity Polar Plot





TEST NUMBER: P881259

CATALOG NUMBER: 24CZ2-65VHE-HRP-UNV-B50

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	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82																			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56																			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	42	38	36																			
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28																			
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25																			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2247	2247	2247
5°	2250	2241	2250
10°	2243	2240	2255
15°	2230	2236	2257
20°	2215	2231	2262
25°	2188	2220	2265
30°	2163	2213	2273
35°	2127	2201	2276
40°	2089	2188	2297
45°	2042	2185	2333
50°	1976	2183	2395
55°	1906	2199	2482
60°	1797	2232	2592
65°	1660	2285	2738
70°	1450	2364	2916
75°	1176	2487	3013
80°	869	2439	2439
85°	666	1797	2029



TEST NUMBER: P881259

CATALOG NUMBER: 24CZ2-65VHE-HRP-UNV-B50

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.8	3.1
10°-20°	433.1	8.8
20°-30°	659.3	13.4
30°-40°	800.6	16.3
40°-50°	845.8	17.2
50°-60°	798.1	16.3
60°-70°	663.6	13.5
70°-80°	436.6	8.9
80°-90°	119.0	2.4
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°	1243.2	25.3
0°-40°	2043.8	41.7
0°-60°	3687.8	75.2
0°-90°	4907.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4907.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1592	1592	1592	1592	1592	
5°	1588	1588	1582	1588	1588	151
15°	1526	1528	1530	1545	1545	430
25°	1405	1413	1426	1450	1454	648
35°	1235	1249	1278	1311	1321	773
45°	1023	1044	1095	1148	1169	788
55°	774	807	894	978	1009	690
65°	497	555	684	785	820	491
75°	216	314	456	540	553	232
85°	41	90	111	123	125	50
90°	0	0	0	0	0	



TEST NUMBER: P881259

CATALOG NUMBER: 24CZ2-65VHE-HRP-UNV-B50

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1592.1	1592.1	1592.1	1592.1	1592.1
2.5°	1594.1	1592.1	1583.8	1592.1	1592.1
5°	1588.0	1588.0	1581.7	1588.0	1588.0
7.5°	1577.7	1577.7	1573.4	1581.7	1581.7
10°	1565.3	1565.3	1563.3	1573.4	1573.4
12.5°	1546.9	1548.7	1546.9	1559.1	1559.1
15°	1526.3	1528.3	1530.5	1544.9	1544.9
17.5°	1499.7	1503.8	1507.8	1524.2	1526.3
20°	1475.0	1476.9	1485.2	1503.8	1505.8
22.5°	1442.2	1448.3	1458.6	1476.9	1483.3
25°	1405.0	1413.3	1425.6	1450.3	1454.4
27.5°	1370.2	1376.4	1392.8	1419.6	1427.9
30°	1327.0	1337.4	1357.8	1384.5	1394.9
32.5°	1285.9	1296.3	1321.0	1349.5	1357.8
35°	1234.7	1249.1	1277.6	1310.6	1321.0
37.5°	1185.3	1199.7	1234.7	1271.6	1284.1
40°	1133.9	1150.3	1187.5	1230.5	1246.9
42.5°	1078.4	1101.1	1142.2	1189.3	1208.0
45°	1022.9	1043.6	1094.8	1148.2	1168.9
47.5°	963.6	988.3	1043.6	1107.3	1132.0
50°	899.8	930.6	994.4	1064.0	1090.9
52.5°	836.2	871.1	942.9	1020.9	1049.8
55°	774.5	807.3	893.5	978.0	1008.7
57.5°	706.6	747.9	842.3	932.6	963.6
60°	636.8	682.1	790.9	885.2	918.2
62.5°	566.9	618.4	741.5	836.2	871.1
65°	497.1	554.8	684.2	784.8	819.8
67.5°	429.3	493.0	630.7	731.3	766.2
70°	351.3	431.5	573.0	671.8	706.6
72.5°	279.4	371.9	517.5	610.3	641.0
75°	215.6	314.4	456.0	540.2	552.6
77.5°	158.1	256.7	392.4	420.9	423.2
80°	106.9	205.3	300.1	295.8	300.1
82.5°	69.9	154.1	188.9	211.6	213.6
85°	41.1	90.5	111.0	123.3	125.3
87.5°	20.5	30.8	39.1	41.1	45.2
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)