

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: P881262

Luminaire Tested: **24CZ2-65VHE-RDP-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: P881262  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474311)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-65VHE-RDP-UNV-B50  
Description: 2X4 6500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RDP LENS  
  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

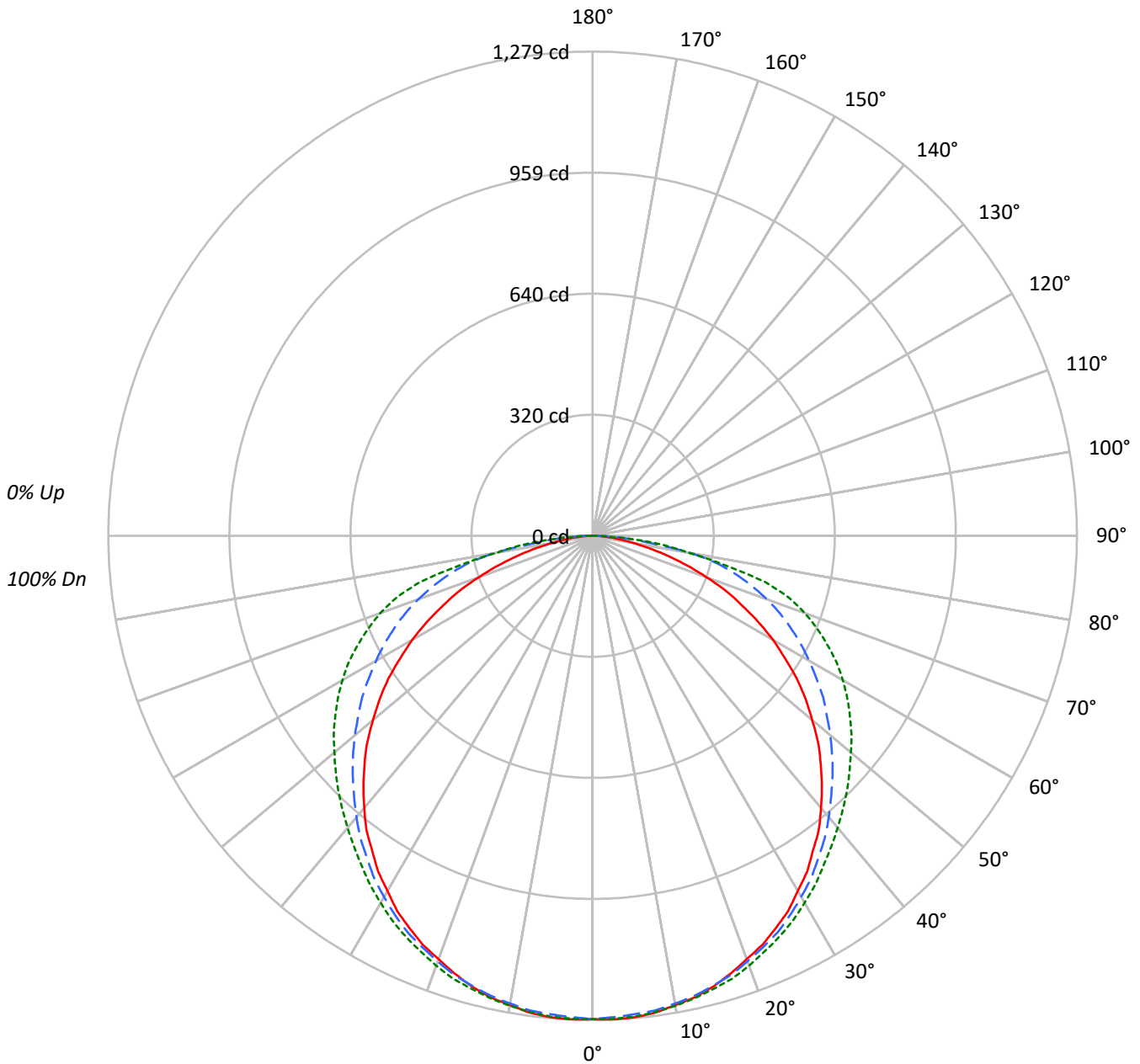
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4059.9 lumens  
Efficiency: N/A  
Efficacy: 79.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
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: P881262  
CATALOG NUMBER: 24CZ2-65VHE-RDP-UNV-B50

### Luminous Intensity Polar Plot





TEST NUMBER: P881262

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

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				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	100	96	92	96	93	89	92	89	87	88	86	84	82			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67			
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27			
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1802	1802	1802
5°	1809	1798	1806
10°	1804	1798	1807
15°	1801	1798	1810
20°	1787	1797	1815
25°	1781	1800	1819
30°	1765	1795	1825
35°	1749	1790	1832
40°	1729	1788	1855
45°	1700	1789	1897
50°	1662	1800	1955
55°	1620	1828	2042
60°	1552	1864	2154
65°	1453	1930	2287
70°	1321	2020	2459
75°	1120	2130	2571
80°	883	2143	2077
85°	653	1631	1828



TEST NUMBER: P881262

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

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.1	3.0
10°-20°	348.6	8.6
20°-30°	533.0	13.1
30°-40°	651.6	16.0
40°-50°	694.5	17.1
50°-60°	664.0	16.4
60°-70°	562.5	13.9
70°-80°	378.0	9.3
80°-90°	106.7	2.6
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°	1002.7	24.7
0°-40°	1654.3	40.7
0°-60°	3012.8	74.2
0°-90°	4059.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4059.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1277	1277	1277	1277	1277	
5°	1277	1275	1269	1275	1275	121
15°	1232	1232	1230	1240	1238	347
25°	1144	1148	1156	1166	1168	527
35°	1015	1023	1039	1059	1063	636
45°	852	866	896	934	950	657
55°	658	683	743	802	830	586
65°	435	479	578	654	685	432
75°	205	280	391	457	471	220
85°	40	83	101	109	113	50
90°	0	0	0	0	0	



TEST NUMBER: P881262

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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1276.8	1276.8	1276.8	1276.8	1276.8
2.5°	1278.8	1278.8	1272.7	1276.8	1276.8
5°	1276.8	1274.9	1268.8	1274.9	1274.9
7.5°	1270.7	1268.8	1264.6	1270.7	1268.8
10°	1258.7	1258.7	1254.6	1260.7	1260.7
12.5°	1248.5	1246.5	1244.6	1252.6	1250.7
15°	1232.4	1232.4	1230.4	1240.4	1238.5
17.5°	1212.3	1214.3	1216.5	1224.5	1226.5
20°	1190.1	1194.2	1196.2	1208.4	1208.4
22.5°	1170.0	1172.0	1176.1	1188.1	1188.1
25°	1143.9	1147.8	1155.9	1165.9	1168.1
27.5°	1117.5	1119.7	1129.7	1143.9	1145.9
30°	1083.3	1089.4	1101.6	1117.5	1119.7
32.5°	1053.2	1059.1	1073.3	1089.4	1093.6
35°	1014.9	1023.0	1039.1	1059.1	1063.3
37.5°	980.7	986.6	1006.8	1029.1	1035.0
40°	938.6	950.4	970.6	996.8	1006.8
42.5°	896.1	908.3	932.5	966.5	978.5
45°	851.9	866.0	896.1	934.5	950.4
47.5°	807.6	823.8	858.0	902.2	920.3
50°	757.1	777.3	819.6	870.0	890.2
52.5°	708.9	733.1	779.3	835.7	861.9
55°	658.4	682.6	743.1	801.5	829.7
57.5°	602.1	634.2	700.8	767.3	797.4
60°	549.8	579.9	660.5	733.1	763.2
62.5°	493.4	533.7	620.2	696.7	727.0
65°	435.0	479.4	577.9	654.4	684.7
67.5°	382.7	431.0	535.7	612.2	642.2
70°	320.1	380.5	489.5	565.8	596.0
72.5°	261.7	328.2	441.1	515.6	543.7
75°	205.3	279.8	390.7	457.2	471.4
77.5°	153.2	231.5	338.2	366.5	356.5
80°	108.7	185.4	263.7	249.5	255.6
82.5°	70.6	141.0	163.2	185.4	191.1
85°	40.3	82.6	100.7	108.7	112.9
87.5°	18.1	30.3	40.3	40.3	38.3
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)