

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: P842826

Luminaire Tested: **14CZ2-25-SQR-UNV-B50**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842826  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387389)  
Test Lab: INNOVATIONS CENTER(G2)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-25-SQR-UNV-B50  
Description: 1X4 2500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

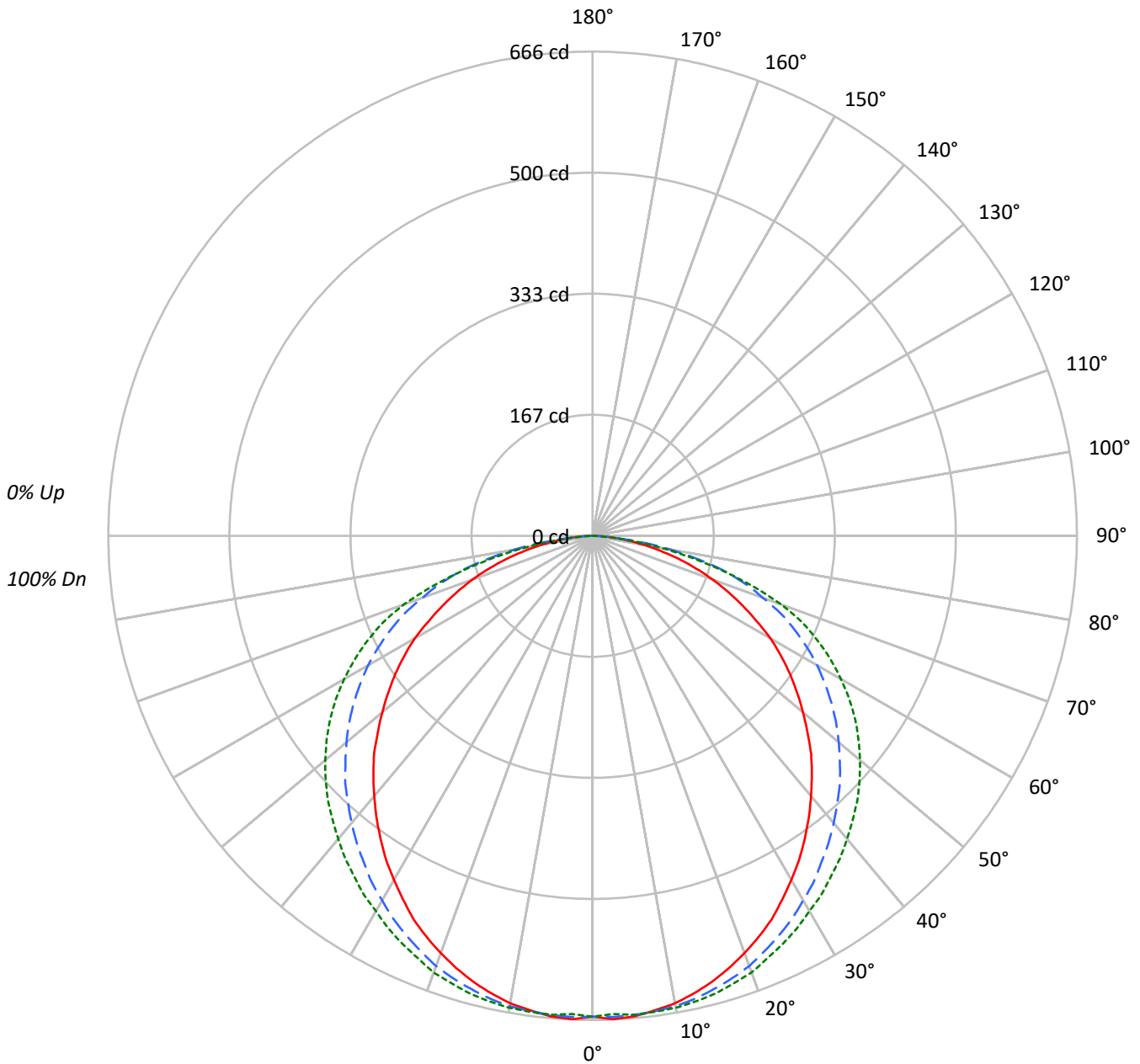
Lumens per Lamp: N/A  
Luminaire Lumens: 2093.0 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 19  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P842826

CATALOG NUMBER: 14CZ2-25-SQR-UNV-B50

### Luminous Intensity Polar Plot





TEST NUMBER: P842826

CATALOG NUMBER: 14CZ2-25-SQR-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	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83								
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68								
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56								
4	81	68	59	52	79	67	59	52	65	57	51	62	56	51	60	54	50	48								
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41								
6	68	55	45	39	67	54	45	39	52	44	38	50	43	38	49	42	38	35								
7	63	49	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31								
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28								
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25								
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22								

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

	0°	45°	90°
0°	1867	1867	1867
5°	1880	1874	1874
10°	1872	1884	1890
15°	1856	1886	1905
20°	1835	1892	1920
25°	1814	1889	1928
30°	1781	1888	1943
35°	1752	1890	1970
40°	1722	1901	2006
45°	1697	1920	2055
50°	1658	1941	2108
55°	1630	1973	2170
60°	1596	2013	2227
65°	1521	2050	2283
70°	1445	2054	2281
75°	1323	2048	2013
80°	1131	1749	1560
85°	891	991	583



TEST NUMBER: P842826

CATALOG NUMBER: 14CZ2-25-SQR-UNV-B50

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.9	3.0
10°-20°	181.6	8.7
20°-30°	277.7	13.3
30°-40°	340.4	16.3
40°-50°	366.0	17.5
50°-60°	351.8	16.8
60°-70°	292.9	14.0
70°-80°	179.8	8.6
80°-90°	40.0	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°	522.1	24.9
0°-40°	862.5	41.2
0°-60°	1580.3	75.5
0°-90°	2093.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2093.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	662	662	662	662	662	
5°	664	657	662	662	662	63
15°	635	633	646	650	652	179
25°	582	588	606	614	619	268
35°	508	521	548	563	572	318
45°	425	444	481	503	515	327
55°	331	360	401	428	441	296
65°	228	263	307	332	342	226
75°	121	158	188	187	185	129
85°	28	41	31	21	18	33
90°	0	0	0	0	0	



TEST NUMBER: P842826

CATALOG NUMBER: 14CZ2-25-SQR-UNV-B50

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	661.5	661.5	661.5	661.5	661.5
2.5°	665.6	659.3	662.5	661.5	658.3
5°	663.5	657.2	661.5	661.5	661.5
7.5°	658.3	653.0	659.3	660.3	660.3
10°	653.0	648.8	657.2	658.3	659.3
12.5°	644.5	641.3	652.0	654.0	656.1
15°	635.0	633.0	645.5	649.8	652.0
17.5°	623.5	624.5	638.2	643.5	645.5
20°	610.8	614.0	629.8	635.0	639.3
22.5°	597.0	601.3	618.2	624.5	628.7
25°	582.3	587.5	606.5	614.0	619.2
27.5°	564.3	572.8	593.9	603.4	608.7
30°	546.4	555.9	579.2	590.7	596.0
32.5°	528.5	539.0	565.4	577.0	585.5
35°	508.5	521.2	548.5	563.3	571.7
37.5°	488.4	503.2	532.7	549.5	559.0
40°	467.2	483.2	515.8	534.8	544.3
42.5°	446.2	464.2	497.9	519.0	529.5
45°	425.1	444.1	481.0	503.2	514.7
47.5°	400.9	424.1	461.0	486.2	497.9
50°	377.6	402.9	442.0	468.4	480.0
52.5°	354.4	380.9	421.9	449.4	461.0
55°	331.2	359.7	400.9	428.2	440.9
57.5°	306.9	336.4	378.7	407.2	418.7
60°	282.7	313.3	356.6	382.9	394.5
62.5°	254.2	290.1	332.3	358.7	369.2
65°	227.8	262.6	306.9	332.3	341.8
67.5°	201.5	237.3	280.6	303.8	312.2
70°	175.1	211.0	248.9	271.1	276.4
72.5°	148.8	184.6	220.5	233.1	231.1
75°	121.3	158.3	187.8	186.8	184.6
77.5°	95.0	130.8	148.8	141.3	138.2
80°	69.6	104.5	107.6	100.3	96.0
82.5°	47.5	74.8	67.5	59.0	54.8
85°	27.5	41.1	30.6	21.1	18.0
87.5°	11.6	10.5	3.2	3.2	2.1
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)