

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: P880911

Luminaire Tested: **24CZ2-50VHE-RDP-B2750-W2D-5000K**

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: P880911  
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: 24CZ2-50VHE-RDP-B2750-W2D-5000K  
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RDP LENS  
  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

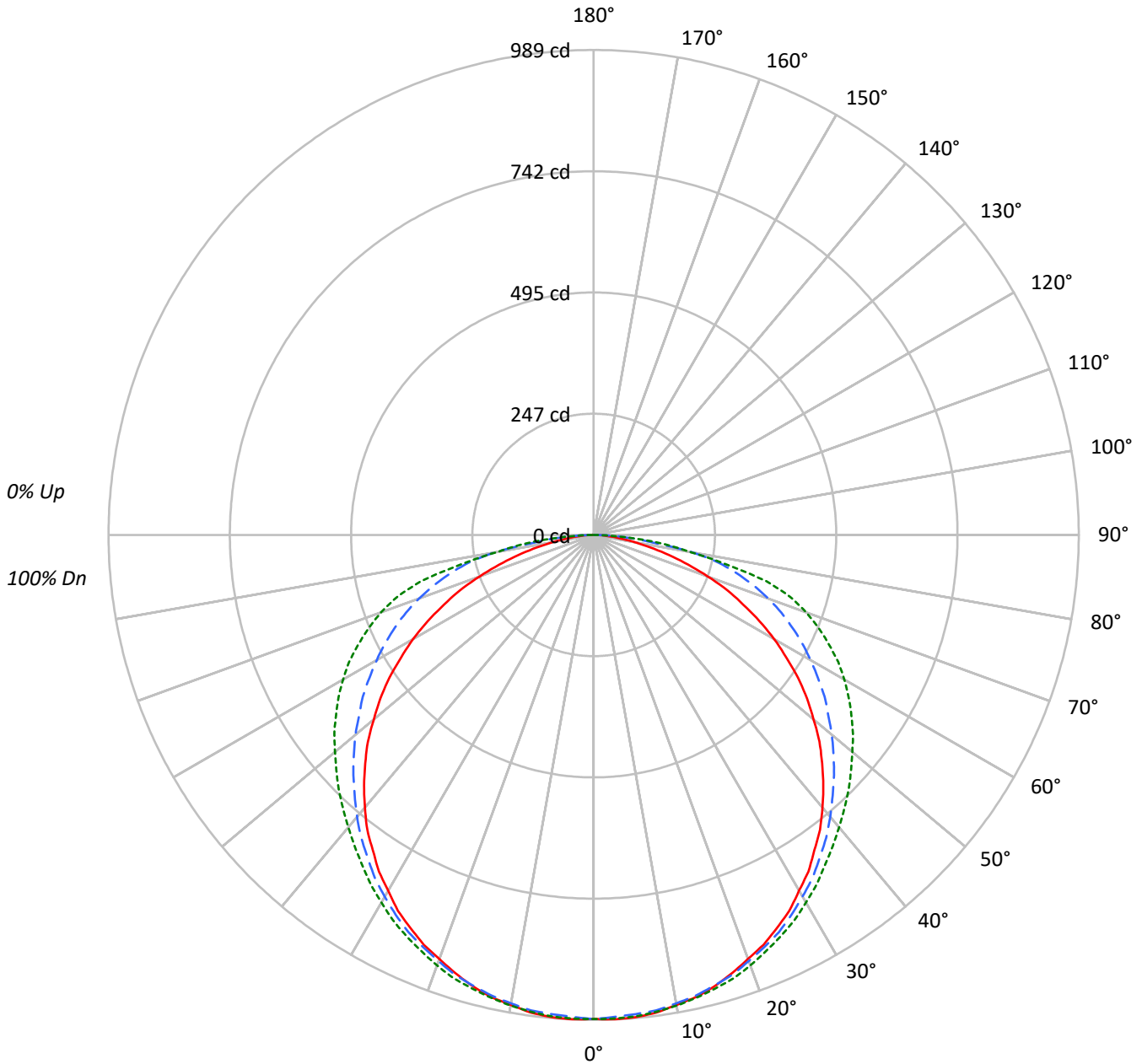
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3139.0 lumens  
Efficiency: N/A  
Efficacy: 82.6 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): 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				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				100
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82				82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67				67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56				56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47				47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40				40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35				35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31				31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27				27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24				24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22				22

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

	0°	45°	90°
0°	1393	1393	1393
5°	1399	1390	1396
10°	1395	1390	1397
15°	1392	1390	1399
20°	1382	1389	1403
25°	1377	1392	1406
30°	1365	1388	1411
35°	1352	1384	1416
40°	1337	1383	1434
45°	1315	1383	1467
50°	1285	1391	1511
55°	1252	1414	1578
60°	1200	1442	1666
65°	1123	1492	1768
70°	1021	1561	1901
75°	865	1647	1987
80°	684	1657	1606
85°	505	1260	1414



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.6	3.0
10°-20°	269.5	8.6
20°-30°	412.1	13.1
30°-40°	503.8	16.0
40°-50°	537.0	17.1
50°-60°	513.4	16.4
60°-70°	434.9	13.9
70°-80°	292.3	9.3
80°-90°	82.5	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°	775.2	24.7
0°-40°	1279.0	40.7
0°-60°	2329.3	74.2
0°-90°	3139.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3139.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	987	987	987	987	987	
5°	987	986	981	986	986	94
15°	953	953	951	959	958	269
25°	884	887	894	901	903	408
35°	785	791	803	819	822	492
45°	659	670	693	722	735	508
55°	509	528	575	620	641	453
65°	336	371	447	506	529	334
75°	159	216	302	354	364	170
85°	31	64	78	84	87	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	987.2	987.2	987.2	987.2	987.2
2.5°	988.7	988.7	984.0	987.2	987.2
5°	987.2	985.7	980.9	985.7	985.7
7.5°	982.5	980.9	977.8	982.5	980.9
10°	973.2	973.2	970.0	974.7	974.7
12.5°	965.3	963.8	962.2	968.5	967.0
15°	952.8	952.8	951.3	959.1	957.5
17.5°	937.3	938.8	940.5	946.7	948.3
20°	920.1	923.3	924.8	934.3	934.3
22.5°	904.6	906.1	909.3	918.6	918.6
25°	884.4	887.4	893.7	901.4	903.1
27.5°	864.0	865.7	873.5	884.4	885.9
30°	837.6	842.3	851.7	864.0	865.7
32.5°	814.3	818.9	829.8	842.3	845.5
35°	784.7	790.9	803.4	818.9	822.1
37.5°	758.2	762.8	778.4	795.6	800.2
40°	725.7	734.8	750.5	770.7	778.4
42.5°	692.8	702.3	721.0	747.3	756.5
45°	658.6	669.6	692.8	722.5	734.8
47.5°	624.4	636.9	663.3	697.6	711.5
50°	585.3	601.0	633.7	672.6	688.3
52.5°	548.1	566.8	602.5	646.2	666.4
55°	509.0	527.7	574.6	619.7	641.4
57.5°	465.5	490.3	541.9	593.3	616.5
60°	425.1	448.4	510.7	566.8	590.1
62.5°	381.5	412.6	479.5	538.7	562.1
65°	336.3	370.7	446.8	506.0	529.4
67.5°	295.9	333.3	414.2	473.3	496.6
70°	247.5	294.2	378.4	437.4	460.8
72.5°	202.4	253.8	341.0	398.6	420.4
75°	158.7	216.4	302.1	353.5	364.4
77.5°	118.4	178.9	261.5	283.4	275.6
80°	84.1	143.4	203.9	192.9	197.6
82.5°	54.6	109.0	126.2	143.4	147.8
85°	31.2	63.9	77.8	84.1	87.3
87.5°	14.0	23.4	31.2	31.2	29.6
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)