

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: P881232

Luminaire Tested: **24CZ2-55VHE-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: P881232  
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: 24CZ2-55VHE-RDP-UNV-B50  
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RDP LENS  
  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

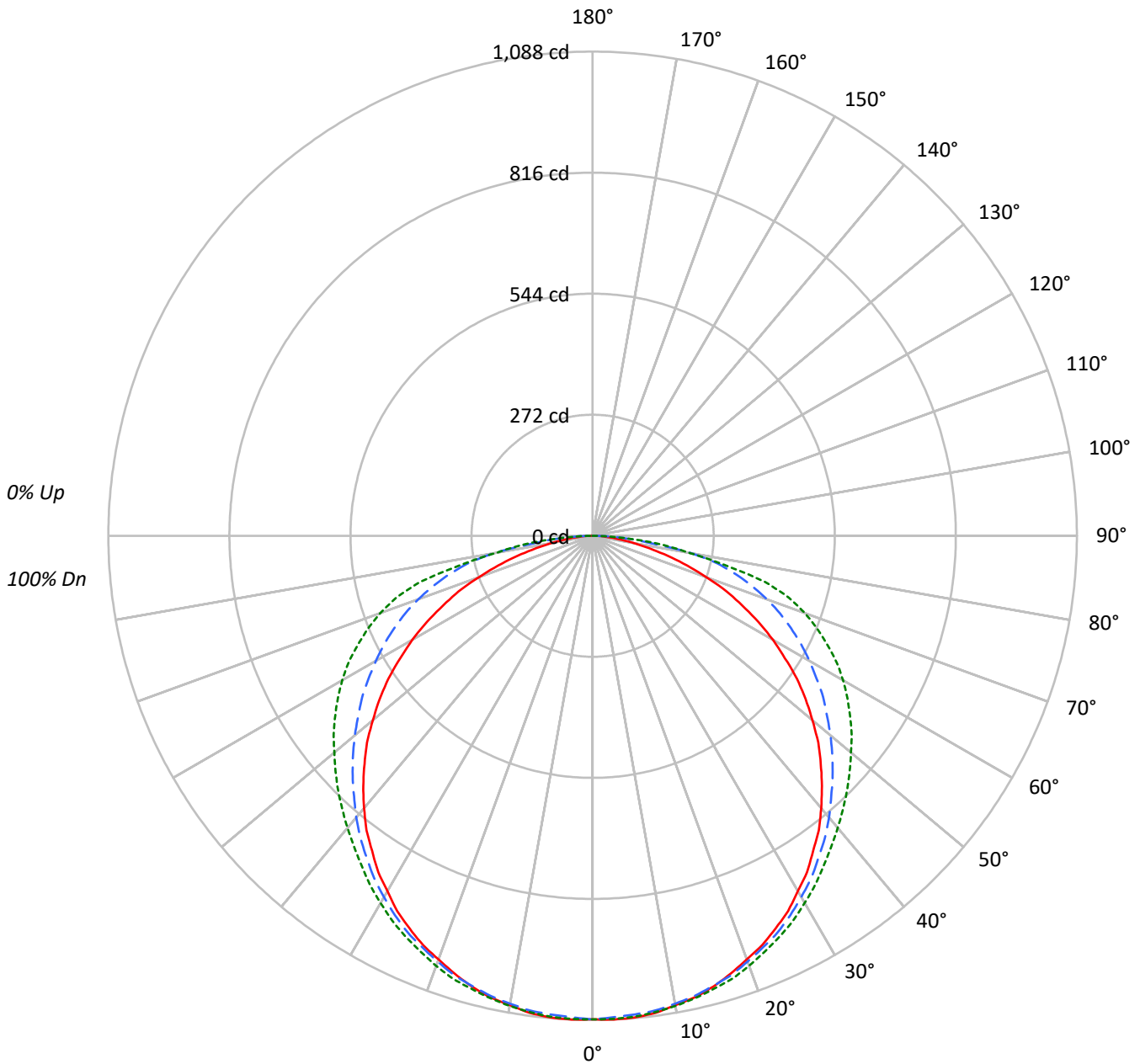
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3455.0 lumens  
Efficiency: N/A  
Efficacy: 80.3 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): 43  
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	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°	1534	1534	1534
5°	1539	1530	1537
10°	1535	1530	1537
15°	1532	1530	1540
20°	1521	1529	1544
25°	1516	1532	1548
30°	1502	1528	1553
35°	1488	1523	1559
40°	1472	1522	1579
45°	1447	1522	1614
50°	1415	1531	1663
55°	1379	1556	1737
60°	1321	1587	1833
65°	1236	1642	1946
70°	1124	1719	2093
75°	953	1813	2187
80°	752	1824	1768
85°	555	1388	1556



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.1	3.0
10°-20°	296.6	8.6
20°-30°	453.6	13.1
30°-40°	554.5	16.0
40°-50°	591.0	17.1
50°-60°	565.1	16.4
60°-70°	478.7	13.9
70°-80°	321.7	9.3
80°-90°	90.8	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°	853.3	24.7
0°-40°	1407.8	40.7
0°-60°	2563.9	74.2
0°-90°	3455.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3455.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1087	1087	1087	1087	1087	
5°	1087	1085	1080	1085	1085	103
15°	1049	1049	1047	1056	1054	296
25°	973	977	984	992	994	449
35°	864	870	884	901	905	541
45°	725	737	763	795	809	559
55°	560	581	632	682	706	499
65°	370	408	492	557	583	368
75°	175	238	332	389	401	187
85°	34	70	86	92	96	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1086.6	1086.6	1086.6	1086.6	1086.6
2.5°	1088.2	1088.2	1083.0	1086.6	1086.6
5°	1086.6	1084.9	1079.7	1084.9	1084.9
7.5°	1081.4	1079.7	1076.2	1081.4	1079.7
10°	1071.2	1071.2	1067.7	1072.8	1072.8
12.5°	1062.5	1060.8	1059.1	1066.0	1064.3
15°	1048.7	1048.7	1047.1	1055.6	1053.9
17.5°	1031.7	1033.3	1035.2	1042.0	1043.7
20°	1012.8	1016.3	1018.0	1028.3	1028.3
22.5°	995.7	997.4	1000.9	1011.1	1011.1
25°	973.4	976.8	983.6	992.2	994.0
27.5°	951.0	952.9	961.4	973.4	975.1
30°	921.9	927.1	937.5	951.0	952.9
32.5°	896.3	901.3	913.4	927.1	930.6
35°	863.7	870.5	884.2	901.3	904.8
37.5°	834.5	839.6	856.8	875.7	880.7
40°	798.7	808.8	826.0	848.3	856.8
42.5°	762.6	773.0	793.5	822.5	832.7
45°	724.9	737.0	762.6	795.2	808.8
47.5°	687.3	701.0	730.1	767.8	783.2
50°	644.3	661.5	697.5	740.3	757.6
52.5°	603.3	623.9	663.2	711.2	733.5
55°	560.3	580.8	632.4	682.1	706.0
57.5°	512.4	539.7	596.4	653.0	678.6
60°	467.9	493.5	562.1	623.9	649.5
62.5°	419.9	454.2	527.8	592.9	618.7
65°	370.2	408.0	491.8	556.9	582.7
67.5°	325.7	366.8	455.8	520.9	546.5
70°	272.4	323.8	416.5	481.4	507.2
72.5°	222.7	279.3	375.4	438.8	462.7
75°	174.7	238.1	332.5	389.1	401.1
77.5°	130.4	197.0	287.8	311.9	303.4
80°	92.5	157.8	224.4	212.4	217.5
82.5°	60.1	120.0	138.9	157.8	162.7
85°	34.3	70.3	85.7	92.5	96.1
87.5°	15.4	25.8	34.3	34.3	32.6
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)