

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: P881230

Luminaire Tested: **24CZ2-55VHE-RDP-UNV-B35**

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: P881230  
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-B35  
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RDP LENS  
  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

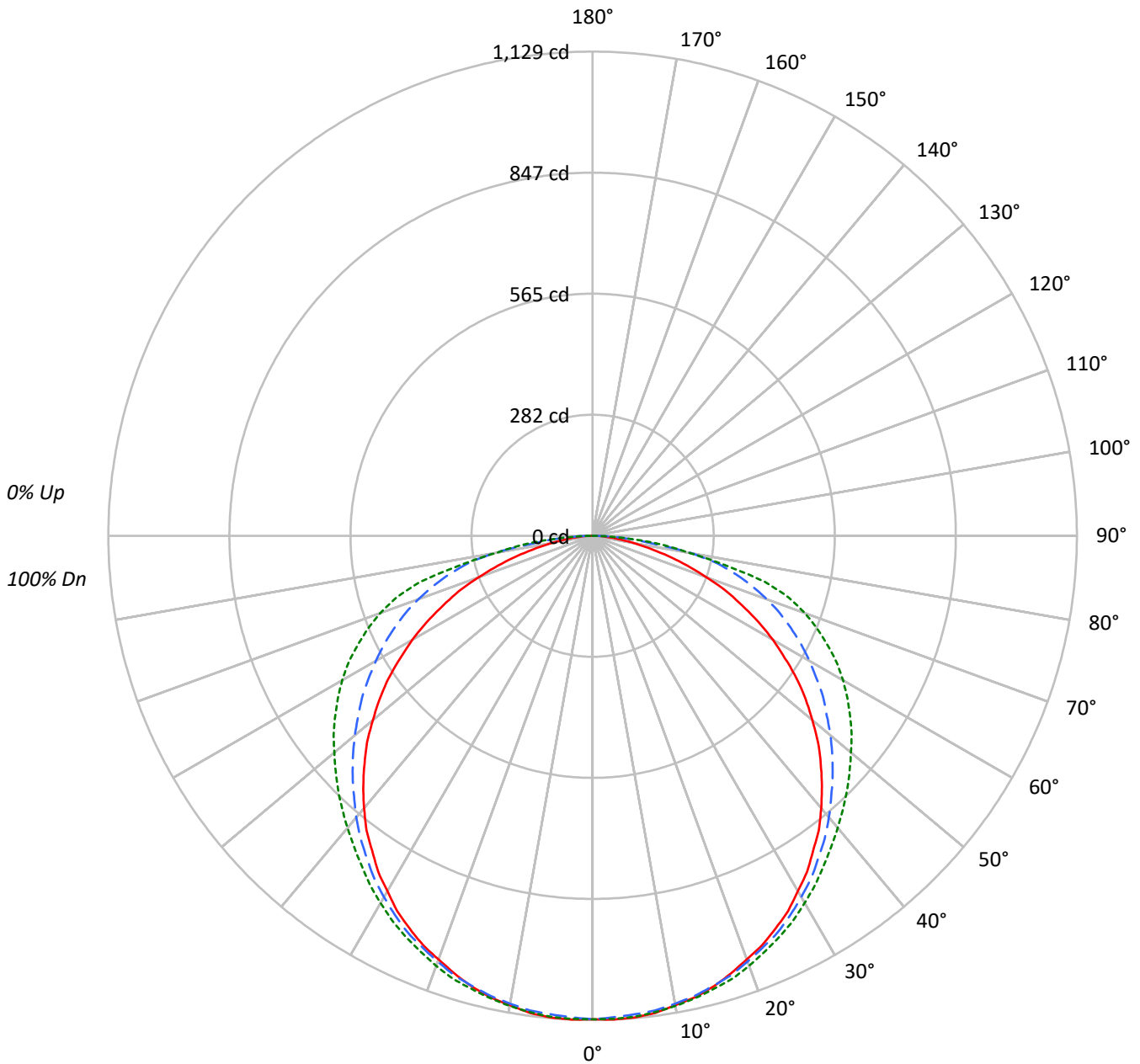
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3585.0 lumens  
Efficiency: N/A  
Efficacy: 83.4 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°	1591	1591	1591
5°	1597	1587	1595
10°	1593	1588	1595
15°	1590	1588	1598
20°	1578	1586	1603
25°	1573	1589	1606
30°	1559	1585	1611
35°	1544	1581	1618
40°	1527	1579	1638
45°	1501	1579	1675
50°	1468	1589	1726
55°	1430	1615	1803
60°	1370	1646	1902
65°	1283	1704	2019
70°	1167	1783	2172
75°	989	1881	2270
80°	780	1893	1834
85°	576	1440	1614



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.9	3.0
10°-20°	307.8	8.6
20°-30°	470.7	13.1
30°-40°	575.3	16.0
40°-50°	613.2	17.1
50°-60°	586.3	16.4
60°-70°	496.7	13.9
70°-80°	333.8	9.3
80°-90°	94.2	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°	885.4	24.7
0°-40°	1460.7	40.7
0°-60°	2660.3	74.2
0°-90°	3585.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3585.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1127	1127	1127	1127	1127	
5°	1127	1126	1120	1126	1126	107
15°	1088	1088	1086	1095	1094	307
25°	1010	1014	1021	1030	1031	466
35°	896	903	918	935	939	561
45°	752	765	791	825	839	580
55°	581	603	656	708	733	518
65°	384	423	510	578	605	381
75°	181	247	345	404	416	194
85°	36	73	89	96	100	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1127.4	1127.4	1127.4	1127.4	1127.4
2.5°	1129.2	1129.2	1123.8	1127.4	1127.4
5°	1127.4	1125.7	1120.3	1125.7	1125.7
7.5°	1122.1	1120.3	1116.7	1122.1	1120.3
10°	1111.5	1111.5	1107.8	1113.2	1113.2
12.5°	1102.4	1100.7	1099.0	1106.1	1104.4
15°	1088.2	1088.2	1086.5	1095.3	1093.6
17.5°	1070.5	1072.2	1074.1	1081.3	1083.0
20°	1050.9	1054.5	1056.3	1067.0	1067.0
22.5°	1033.2	1034.9	1038.5	1049.1	1049.1
25°	1010.1	1013.5	1020.7	1029.5	1031.4
27.5°	986.8	988.7	997.6	1010.1	1011.8
30°	956.6	962.0	972.7	986.8	988.7
32.5°	930.0	935.2	947.7	962.0	965.6
35°	896.2	903.3	917.5	935.2	938.9
37.5°	865.9	871.2	889.0	908.7	913.9
40°	828.8	839.2	857.1	880.2	889.0
42.5°	791.3	802.0	823.4	853.4	864.0
45°	752.2	764.7	791.3	825.1	839.2
47.5°	713.1	727.4	757.6	796.7	812.6
50°	668.5	686.4	723.7	768.2	786.1
52.5°	626.0	647.3	688.1	738.0	761.1
55°	581.3	602.7	656.2	707.8	732.6
57.5°	531.7	560.0	618.9	677.5	704.1
60°	485.5	512.1	583.3	647.3	673.9
62.5°	435.7	471.3	547.7	615.2	641.9
65°	384.1	423.3	510.3	577.9	604.6
67.5°	337.9	380.6	473.0	540.5	567.1
70°	282.7	336.0	432.2	499.6	526.3
72.5°	231.1	289.8	389.5	455.3	480.1
75°	181.3	247.1	345.0	403.7	416.2
77.5°	135.3	204.4	298.7	323.7	314.8
80°	96.0	163.7	232.9	220.3	225.7
82.5°	62.3	124.5	144.1	163.7	168.8
85°	35.6	72.9	88.9	96.0	99.7
87.5°	16.0	26.7	35.6	35.6	33.9
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)