

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: P881172

Luminaire Tested: **24CZ2-35VHE-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: P881172  
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: 24CZ2-35VHE-RDP-UNV-B50  
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RDP LENS  
  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

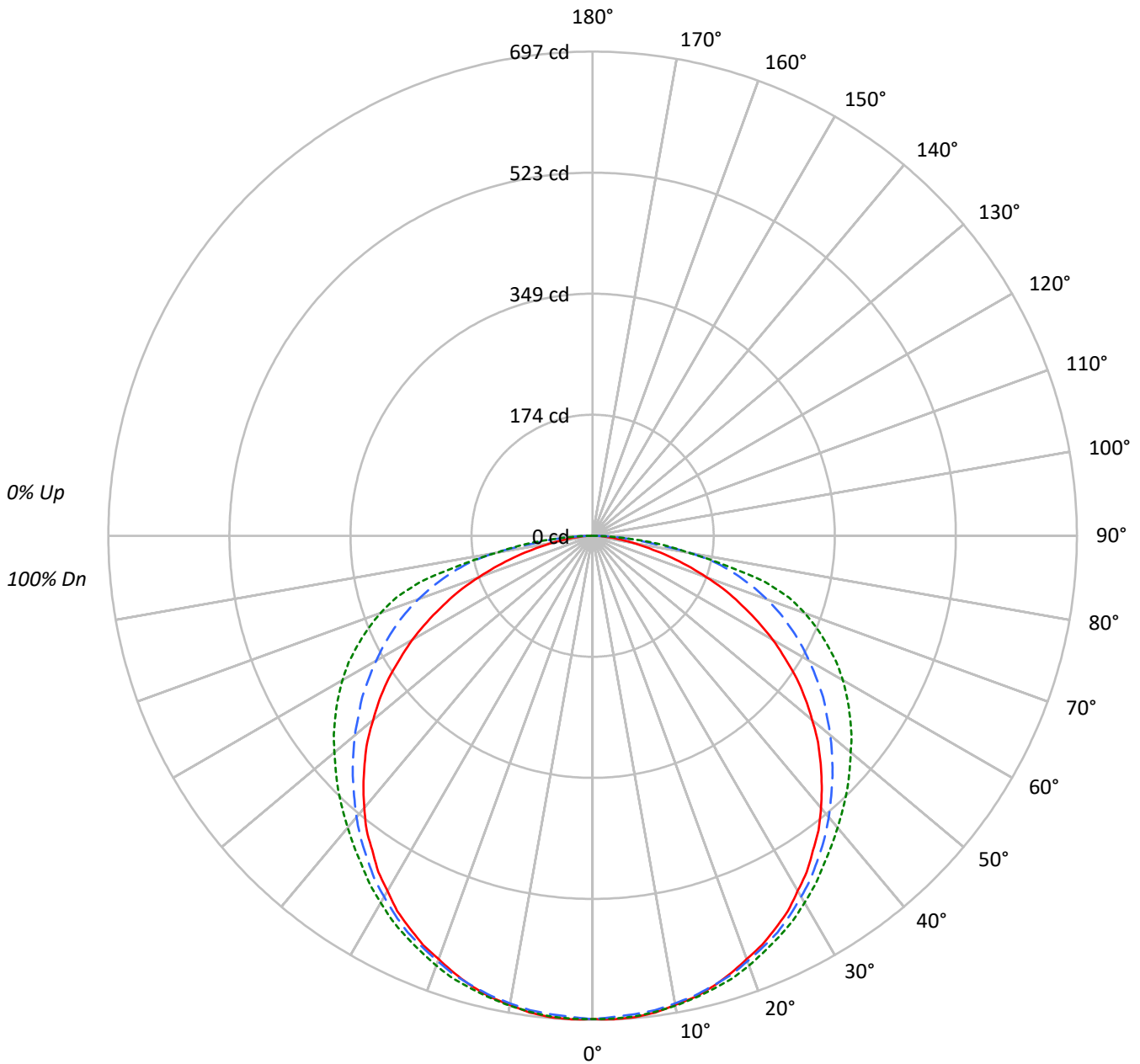
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2212.0 lumens  
Efficiency: N/A  
Efficacy: 81.9 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): 27  
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°	982	982	982
5°	986	979	984
10°	983	980	984
15°	981	980	986
20°	974	979	989
25°	970	981	991
30°	962	978	994
35°	953	975	998
40°	942	974	1011
45°	926	974	1033
50°	906	981	1065
55°	883	996	1112
60°	846	1016	1174
65°	791	1052	1246
70°	720	1101	1340
75°	610	1161	1400
80°	481	1168	1132
85°	356	889	996



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.0	3.0
10°-20°	189.9	8.6
20°-30°	290.4	13.1
30°-40°	355.0	16.0
40°-50°	378.4	17.1
50°-60°	361.8	16.4
60°-70°	306.5	13.9
70°-80°	206.0	9.3
80°-90°	58.1	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°	546.3	24.7
0°-40°	901.3	40.7
0°-60°	1641.4	74.2
0°-90°	2212.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2212.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	696	696	696	696	696	
5°	696	695	691	695	695	66
15°	671	671	670	676	675	189
25°	623	625	630	635	636	287
35°	553	557	566	577	579	346
45°	464	472	488	509	518	358
55°	359	372	405	437	452	320
65°	237	261	315	357	373	235
75°	112	152	213	249	257	120
85°	22	45	55	59	62	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	695.7	695.7	695.7	695.7	695.7
2.5°	696.7	696.7	693.4	695.7	695.7
5°	695.7	694.6	691.3	694.6	694.6
7.5°	692.3	691.3	689.0	692.3	691.3
10°	685.8	685.8	683.5	686.9	686.9
12.5°	680.2	679.2	678.1	682.5	681.4
15°	671.4	671.4	670.4	675.8	674.8
17.5°	660.5	661.6	662.8	667.2	668.2
20°	648.4	650.7	651.7	658.4	658.4
22.5°	637.5	638.5	640.8	647.3	647.3
25°	623.2	625.4	629.8	635.2	636.4
27.5°	608.9	610.0	615.5	623.2	624.3
30°	590.2	593.5	600.2	608.9	610.0
32.5°	573.8	577.0	584.8	593.5	595.8
35°	552.9	557.3	566.1	577.0	579.3
37.5°	534.3	537.5	548.5	560.7	563.9
40°	511.4	517.8	528.8	543.1	548.5
42.5°	488.2	494.9	508.1	526.6	533.1
45°	464.1	471.8	488.2	509.1	517.8
47.5°	440.0	448.8	467.4	491.6	501.4
50°	412.5	423.5	446.6	474.0	485.0
52.5°	386.2	399.4	424.6	455.3	469.6
55°	358.7	371.9	404.9	436.7	452.0
57.5°	328.1	345.5	381.8	418.1	434.4
60°	299.6	316.0	359.9	399.4	415.8
62.5°	268.8	290.8	337.9	379.6	396.1
65°	237.0	261.2	314.9	356.6	373.1
67.5°	208.5	234.8	291.8	333.5	349.9
70°	174.4	207.3	266.7	308.2	324.7
72.5°	142.6	178.8	240.3	280.9	296.2
75°	111.9	152.5	212.9	249.1	256.8
77.5°	83.5	126.1	184.3	199.7	194.2
80°	59.2	101.0	143.7	136.0	139.3
82.5°	38.5	76.8	88.9	101.0	104.1
85°	22.0	45.0	54.9	59.2	61.5
87.5°	9.9	16.5	22.0	22.0	20.9
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)