

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: P881140

Luminaire Tested: **22CZ2-50VHE-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: P881140  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474998)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-50VHE-RDP-UNV-B35  
Description: 2X2 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RDP LENS  
  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

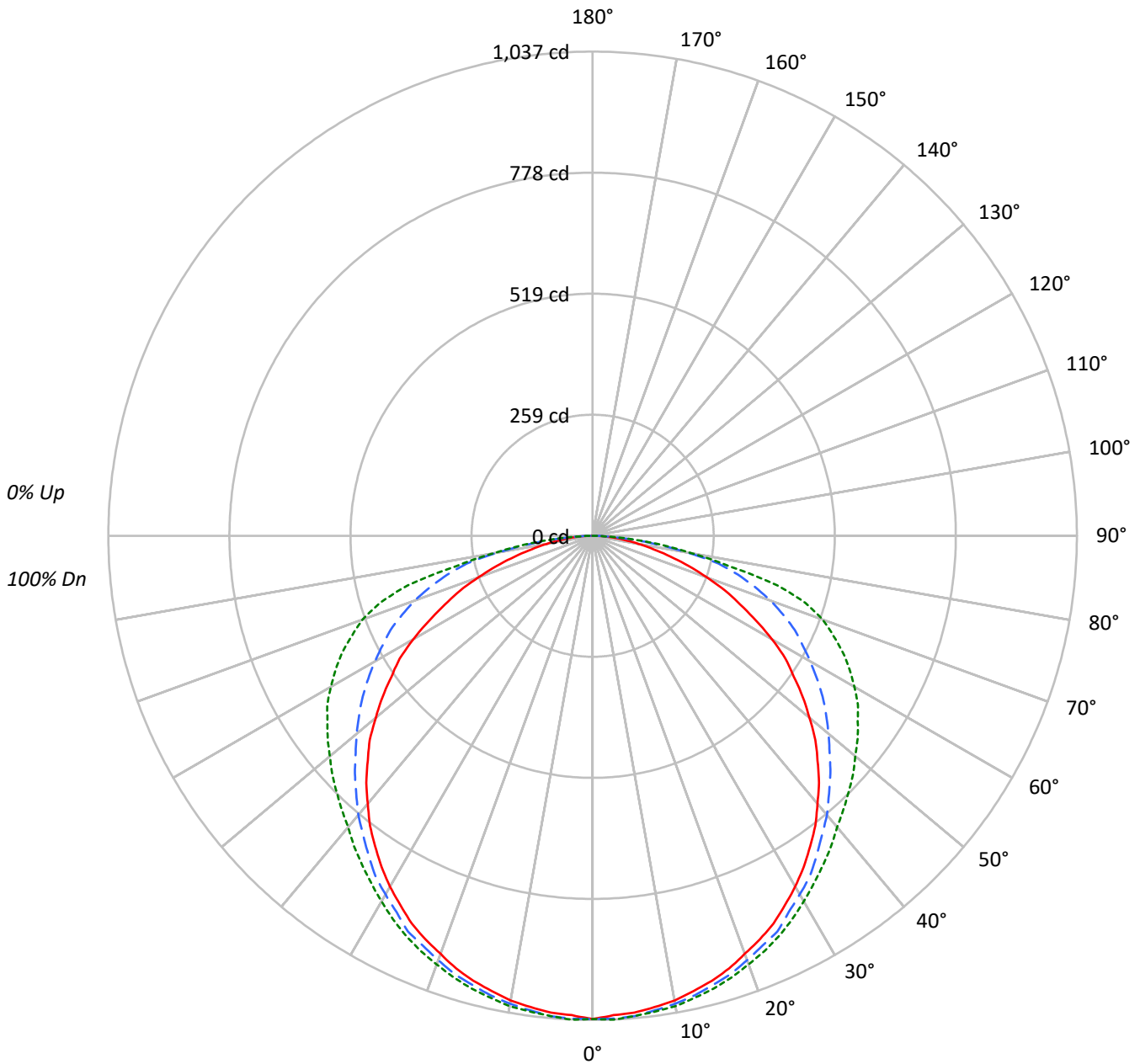
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3295.0 lumens  
Efficiency: N/A  
Efficacy: 78.5 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 42  
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					
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	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82								
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67								
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55								
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47								
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40								
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35								
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31								
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27								
9	55	41	32	27	53	40	32	27	39	32	26	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°	2937	2937	2937
5°	2920	2941	2941
10°	2912	2933	2948
15°	2898	2926	2948
20°	2877	2920	2950
25°	2869	2929	2960
30°	2843	2907	2963
35°	2812	2897	2981
40°	2775	2891	3017
45°	2733	2889	3112
50°	2675	2910	3242
55°	2602	2974	3429
60°	2517	3053	3673
65°	2343	3207	3971
70°	2151	3359	4345
75°	1888	3534	4492
80°	1624	3365	3528
85°	1423	2445	2679



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.9	3.0
10°-20°	281.1	8.5
20°-30°	428.9	13.0
30°-40°	523.7	15.9
40°-50°	559.9	17.0
50°-60°	540.4	16.4
60°-70°	465.2	14.1
70°-80°	314.8	9.6
80°-90°	83.1	2.5
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°	807.9	24.5
0°-40°	1331.5	40.4
0°-60°	2431.9	73.8
0°-90°	3295.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3295.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1035	1035	1035	1035	1035	
5°	1025	1028	1032	1032	1032	97
15°	987	989	996	1001	1003	278
25°	916	921	936	941	945	422
35°	812	819	836	853	861	508
45°	681	693	720	756	776	526
55°	526	543	601	662	693	471
65°	349	383	478	552	591	347
75°	172	228	322	388	410	185
85°	44	61	75	78	82	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1035.0	1035.0	1035.0	1035.0	1035.0
2.5°	1027.8	1030.0	1035.0	1035.0	1037.3
5°	1025.2	1027.8	1032.5	1032.5	1032.5
7.5°	1018.0	1020.5	1025.2	1027.8	1027.8
10°	1010.7	1013.2	1018.0	1020.5	1023.0
12.5°	998.6	1000.9	1008.2	1013.2	1013.2
15°	986.6	988.8	996.1	1000.9	1003.4
17.5°	971.8	976.8	984.1	988.8	991.4
20°	952.7	957.5	967.0	974.5	976.8
22.5°	935.6	940.6	950.2	957.5	962.2
25°	916.3	921.1	935.6	940.6	945.4
27.5°	891.9	897.0	909.0	918.6	925.8
30°	867.8	872.6	887.2	899.5	904.2
32.5°	841.0	848.3	865.3	875.1	882.2
35°	811.9	819.1	836.2	853.0	860.6
37.5°	783.0	790.3	807.1	828.9	838.7
40°	749.1	758.6	780.5	809.6	814.4
42.5°	717.5	729.5	749.1	783.0	795.0
45°	681.1	693.1	720.0	756.4	775.5
47.5°	647.2	659.2	688.3	732.0	756.4
50°	606.0	622.8	659.2	710.2	734.3
52.5°	567.1	581.7	630.4	685.8	715.2
55°	525.9	543.0	601.2	661.7	693.1
57.5°	489.8	504.1	569.6	637.6	673.8
60°	443.6	462.9	538.0	610.8	647.2
62.5°	394.9	424.3	506.6	581.7	620.3
65°	348.9	382.8	477.7	552.5	591.4
67.5°	307.8	344.2	441.3	521.2	557.6
70°	259.3	305.5	404.9	482.5	523.7
72.5°	215.9	266.6	363.8	441.3	477.7
75°	172.2	227.9	322.3	387.9	409.7
77.5°	133.3	186.8	276.1	295.7	298.2
80°	99.4	147.9	205.9	208.4	215.9
82.5°	68.0	104.2	133.3	145.4	147.9
85°	43.7	60.8	75.1	77.6	82.3
87.5°	19.6	21.8	26.6	24.4	24.4
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)