

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: P880759

Luminaire Tested: **22CZ2-44VHE-RDP-B2750-W2D-3500K**

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: P880759  
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: 22CZ2-44VHE-RDP-B2750-W2D-3500K  
Description: 2X2 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RDP LENS  
  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

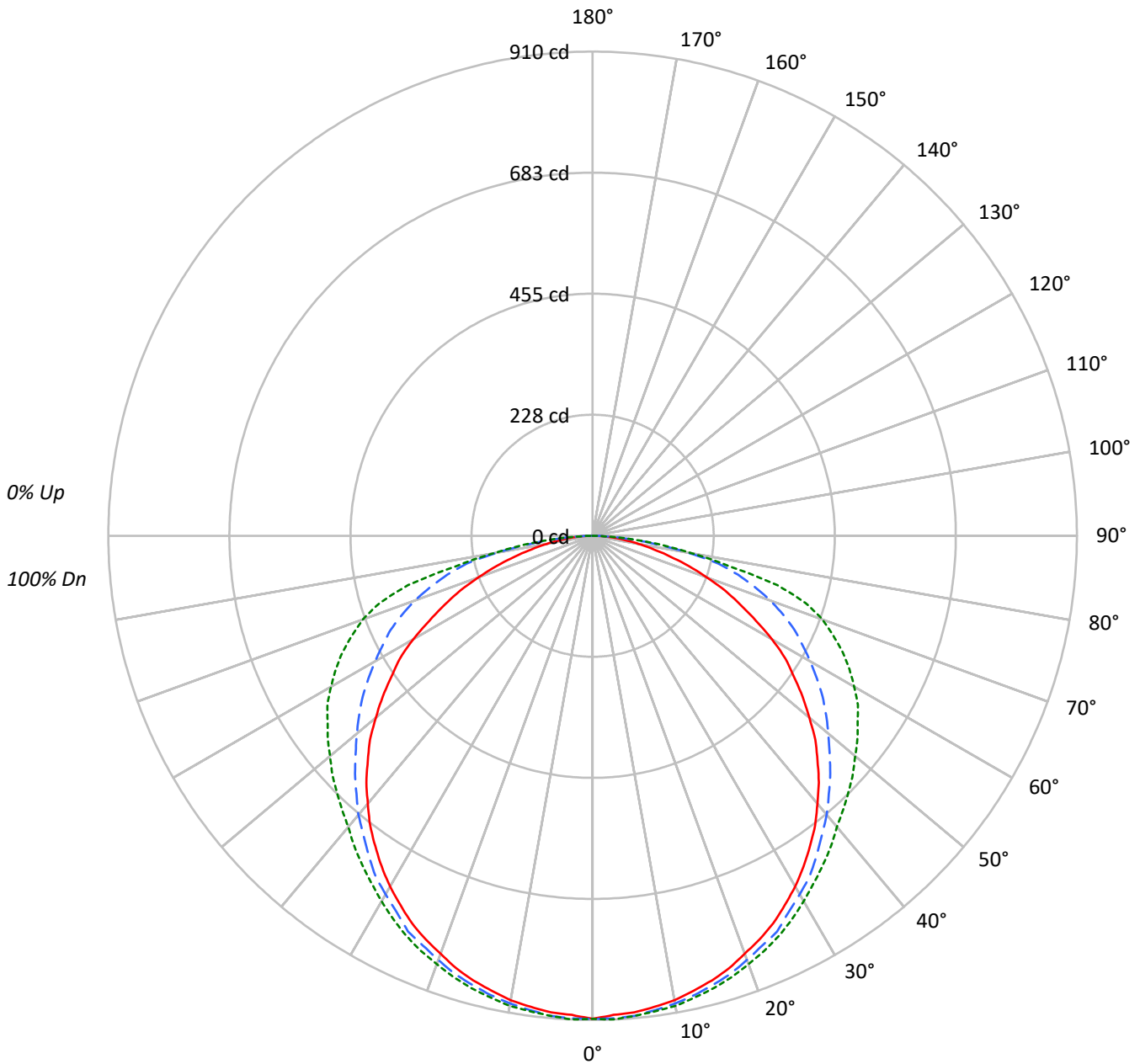
Lumens per Lamp: N/A  
Luminaire Lumens: 2890.0 lumens  
Efficiency: N/A  
Efficacy: 78.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 37  
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°	2576	2576	2576
5°	2561	2579	2579
10°	2554	2572	2585
15°	2542	2567	2585
20°	2523	2561	2587
25°	2516	2569	2596
30°	2494	2549	2599
35°	2467	2540	2615
40°	2434	2535	2646
45°	2397	2534	2729
50°	2346	2552	2843
55°	2282	2609	3007
60°	2208	2678	3221
65°	2055	2813	3483
70°	1887	2947	3811
75°	1655	3099	3939
80°	1425	2949	3095
85°	1247	2142	2351



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.9	3.0
10°-20°	246.5	8.5
20°-30°	376.2	13.0
30°-40°	459.3	15.9
40°-50°	491.1	17.0
50°-60°	474.0	16.4
60°-70°	408.1	14.1
70°-80°	276.1	9.6
80°-90°	72.9	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°	708.6	24.5
0°-40°	1167.9	40.4
0°-60°	2133.0	73.8
0°-90°	2890.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2890.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	908	908	908	908	908	
5°	899	901	906	906	906	85
15°	865	867	874	878	880	244
25°	804	808	821	825	829	370
35°	712	718	733	748	755	446
45°	597	608	632	663	680	461
55°	461	476	527	580	608	413
65°	306	336	419	485	519	304
75°	151	200	283	340	359	162
85°	38	53	66	68	72	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	907.8	907.8	907.8	907.8	907.8
2.5°	901.4	903.4	907.8	907.8	909.8
5°	899.2	901.4	905.6	905.6	905.6
7.5°	892.8	895.0	899.2	901.4	901.4
10°	886.5	888.7	892.8	895.0	897.2
12.5°	875.9	877.9	884.3	888.7	888.7
15°	865.3	867.3	873.7	877.9	880.1
17.5°	852.3	856.7	863.1	867.3	869.5
20°	835.6	839.8	848.1	854.7	856.7
22.5°	820.6	825.0	833.4	839.8	844.0
25°	803.7	807.9	820.6	825.0	829.2
27.5°	782.3	786.7	797.3	805.6	812.0
30°	761.2	765.4	778.1	788.9	793.1
32.5°	737.6	744.0	759.0	767.6	773.7
35°	712.1	718.5	733.4	748.2	754.8
37.5°	686.8	693.1	707.9	727.0	735.6
40°	657.0	665.4	684.5	710.1	714.3
42.5°	629.3	639.9	657.0	686.8	697.3
45°	597.4	607.9	631.5	663.4	680.1
47.5°	567.6	578.2	603.7	642.1	663.4
50°	531.5	546.3	578.2	622.9	644.0
52.5°	497.4	510.2	552.9	601.5	627.3
55°	461.3	476.3	527.3	580.4	607.9
57.5°	429.6	442.1	499.6	559.3	591.0
60°	389.1	406.0	471.9	535.7	567.6
62.5°	346.3	372.1	444.3	510.2	544.1
65°	306.1	335.8	419.0	484.6	518.8
67.5°	269.9	301.9	387.1	457.1	489.0
70°	227.4	268.0	355.2	423.2	459.3
72.5°	189.4	233.8	319.0	387.1	419.0
75°	151.0	199.9	282.7	340.2	359.3
77.5°	116.9	163.8	242.2	259.4	261.6
80°	87.2	129.7	180.5	182.8	189.4
82.5°	59.7	91.4	116.9	127.5	129.7
85°	38.3	53.3	65.8	68.0	72.2
87.5°	17.2	19.2	23.3	21.4	21.4
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)