

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: P880648

Luminaire Tested: **22CZ2-24VHE-B2750-W2D-3000K**

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: P880648  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474795)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-24VHE-B2750-W2D-3000K  
Description: 2X2 2400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RIBBED LENS

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

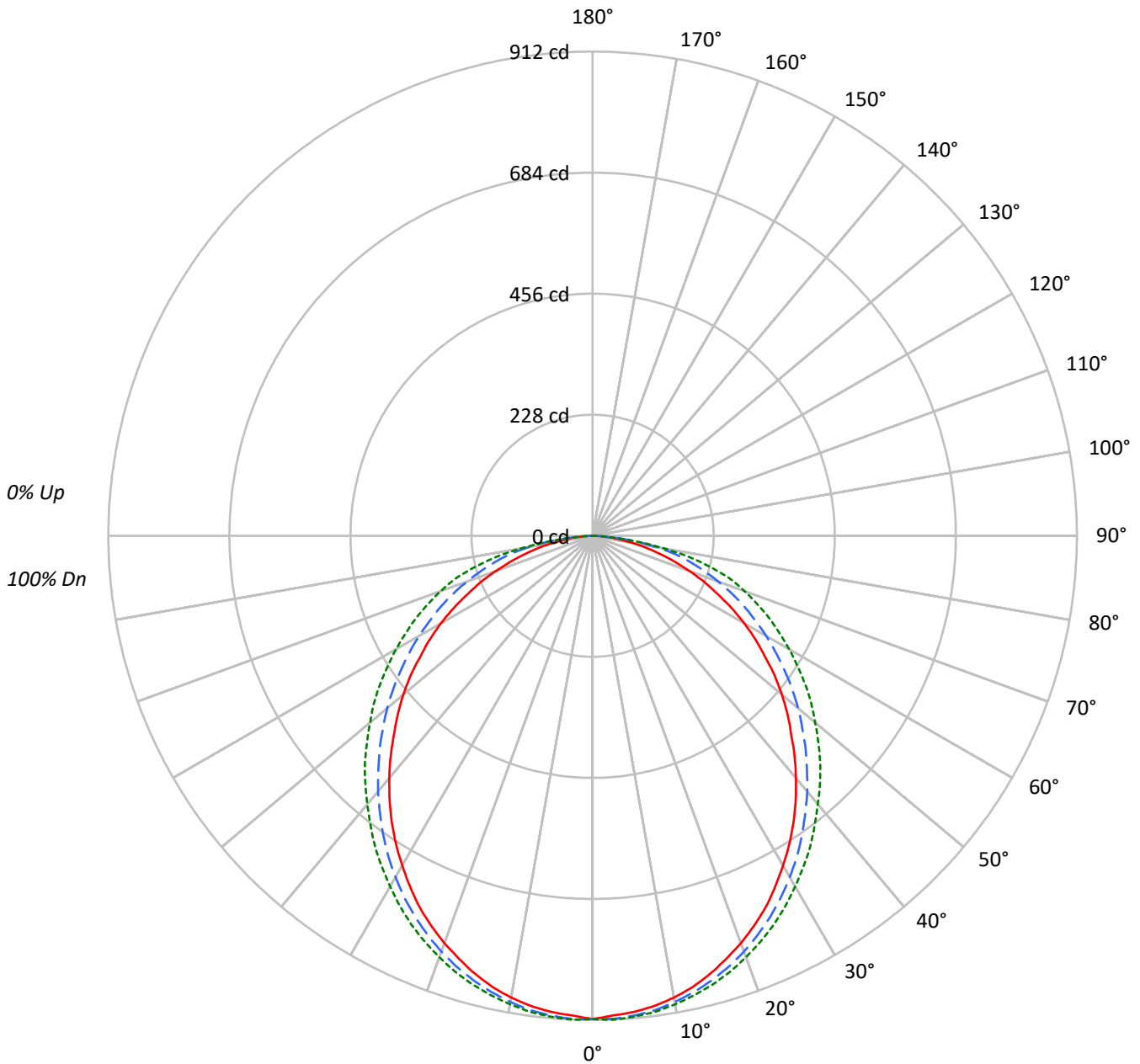
Lumens per Lamp: N/A  
Luminaire Lumens: 2510.0 lumens  
Efficiency: N/A  
Efficacy: 125.5 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.25 / 1.33  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 20  
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				100				
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83				83				
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69				69				
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58				58				
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50				50				
5	76	63	54	47	73	62	53	47	59	52	46	57	51	46	56	50	45	43				43				
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38				38				
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33				33				
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30				30				
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27				27				
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24				24				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2583	2583	2583
5°	2564	2584	2590
10°	2545	2569	2582
15°	2510	2546	2570
20°	2465	2516	2550
25°	2416	2478	2529
30°	2350	2433	2499
35°	2284	2381	2475
40°	2207	2328	2444
45°	2122	2276	2433
50°	2054	2229	2414
55°	1958	2181	2419
60°	1869	2143	2427
65°	1738	2116	2465
70°	1606	2086	2525
75°	1437	2076	2541
80°	1204	1967	2219
85°	934	1348	1260



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.0	3.4
10°-20°	244.1	9.7
20°-30°	364.0	14.5
30°-40°	429.7	17.1
40°-50°	438.0	17.4
50°-60°	394.9	15.7
60°-70°	310.4	12.4
70°-80°	194.4	7.7
80°-90°	48.5	1.9
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°	694.1	27.7
0°-40°	1123.8	44.8
0°-60°	1956.7	78.0
0°-90°	2510.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2510.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	910	910	910	910	910	
5°	900	902	907	909	909	85
15°	854	858	867	873	875	241
25°	772	778	792	804	808	355
35°	659	668	688	706	715	412
45°	529	540	567	595	606	409
55°	396	408	441	475	489	355
65°	259	275	315	350	367	258
75°	131	151	189	223	232	139
85°	29	37	41	41	39	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	910.3	910.3	910.3	910.3	910.3
2.5°	904.4	906.6	910.8	912.4	912.4
5°	900.2	902.3	907.1	909.2	909.2
7.5°	893.2	895.4	901.3	903.9	904.4
10°	883.2	885.8	891.6	896.0	896.0
12.5°	870.5	873.1	880.5	885.8	886.3
15°	854.5	858.3	866.8	873.1	874.7
17.5°	836.0	841.8	851.3	859.4	861.0
20°	816.3	822.2	833.3	842.3	844.5
22.5°	794.6	799.9	813.1	824.4	827.0
25°	771.8	777.6	791.5	803.6	807.9
27.5°	744.7	751.7	768.1	781.8	786.2
30°	717.2	725.7	742.6	758.0	762.8
32.5°	689.1	697.0	716.1	732.5	738.9
35°	659.3	667.8	687.5	706.5	714.6
37.5°	628.0	636.6	657.8	679.5	686.9
40°	595.7	605.8	628.6	651.9	659.9
42.5°	562.9	573.4	597.2	623.3	633.8
45°	528.9	540.5	567.1	594.6	606.3
47.5°	498.1	507.6	535.3	565.5	576.6
50°	465.2	474.2	505.0	535.3	546.9
52.5°	431.8	440.3	473.2	505.0	519.3
55°	395.7	407.9	440.8	474.7	489.0
57.5°	363.9	375.0	409.0	443.4	457.3
60°	329.4	341.0	377.6	412.7	427.6
62.5°	294.9	307.6	344.7	382.5	396.3
65°	258.8	274.8	315.1	350.1	367.1
67.5°	228.1	243.5	283.3	319.9	334.7
70°	193.6	211.7	251.4	288.6	304.4
72.5°	161.2	179.3	220.1	257.3	273.1
75°	131.1	150.6	189.4	223.3	231.8
77.5°	101.9	120.4	159.1	178.8	187.8
80°	73.7	91.7	120.4	133.7	135.8
82.5°	49.8	65.3	81.7	85.4	83.3
85°	28.7	36.6	41.4	41.4	38.7
87.5°	11.6	11.6	10.1	6.3	3.7
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)