

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: P842910

Luminaire Tested: **22CZ2-24HE-RDP-UNV-B50**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842910  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P274731)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-24HE-RDP-UNV-B50  
Description: 2X2 2400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RDP LENS

Light Source: -  
Ballast/Driver: -

**Summary**

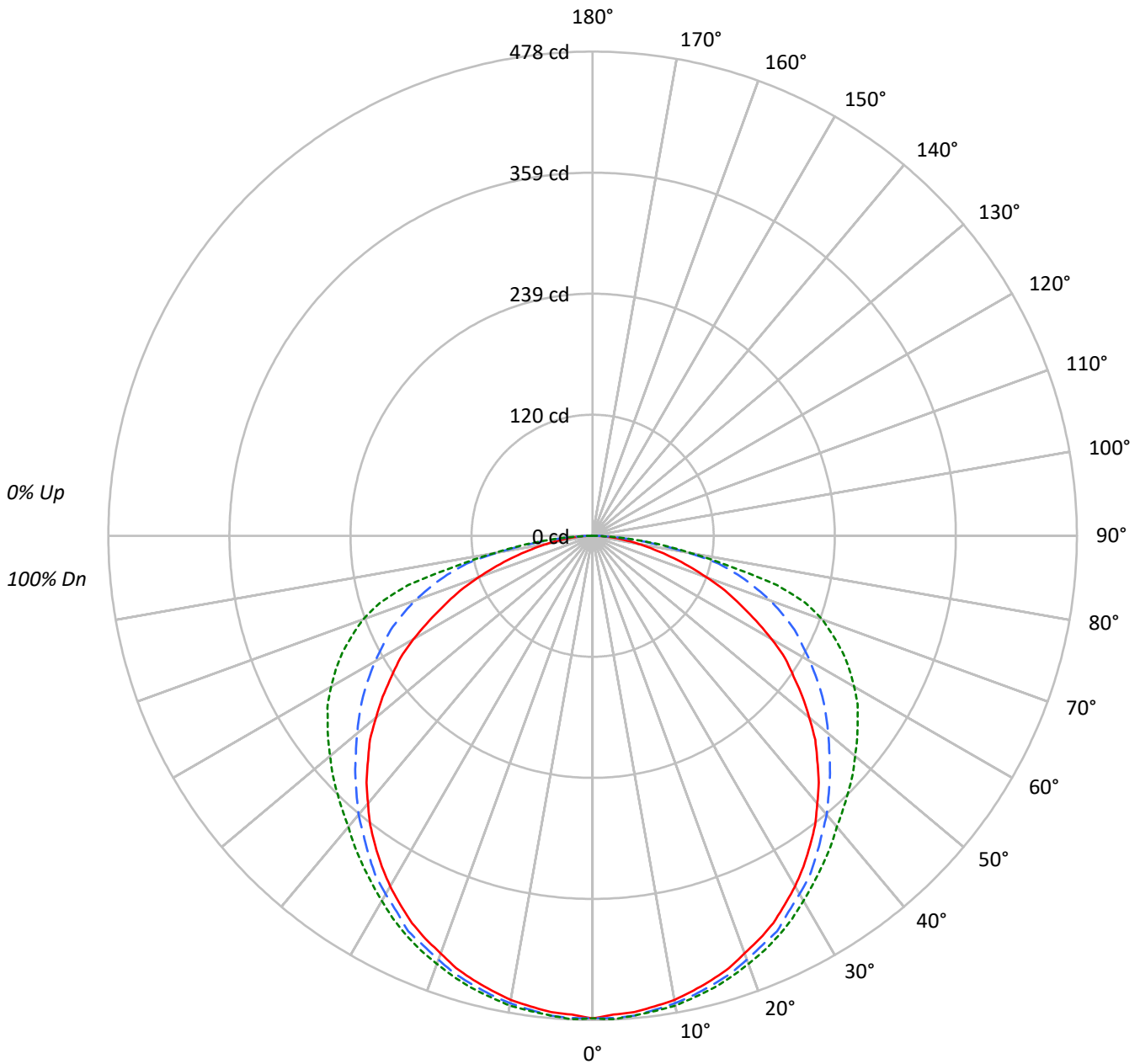
Lumens per Lamp: N/A  
Luminaire Lumens: 1517.0 lumens  
Efficiency: N/A  
Efficacy: 75.9 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	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	100	100	100	100	100	100	100	100	100																
	1	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82	82	82	82	82	82	82	82	82	82	82																
	2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67	67	67	67	67	67	67	67	67	67	67																
	3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55	55	55	55	55	55	55	55	55	55	55																
	4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47	47	47	47	47	47	47	47	47	47	47																
	5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40	40	40	40	40	40	40	40	40	40	40																
	6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35	35	35	35	35	35	35	35	35	35	35																
	7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31	31	31	31	31	31	31	31	31	31	31																
	8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27	27	27	27	27	27	27	27	27	27	27																
	9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24	24	24	24	24	24	24	24	24	24	24																
	10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22	22	22	22	22	22	22	22	22	22	22																

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

	0°	45°	90°
0°	1352	1352	1352
5°	1344	1354	1354
10°	1341	1350	1357
15°	1334	1347	1357
20°	1324	1345	1358
25°	1321	1349	1363
30°	1309	1338	1364
35°	1295	1334	1372
40°	1278	1331	1389
45°	1258	1330	1433
50°	1232	1340	1493
55°	1198	1369	1579
60°	1159	1406	1691
65°	1079	1476	1828
70°	991	1546	1999
75°	869	1627	2068
80°	747	1551	1623
85°	651	1123	1234



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.1	3.0
10°-20°	129.4	8.5
20°-30°	197.5	13.0
30°-40°	241.1	15.9
40°-50°	257.8	17.0
50°-60°	248.8	16.4
60°-70°	214.2	14.1
70°-80°	144.9	9.6
80°-90°	38.2	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°	372.0	24.5
0°-40°	613.1	40.4
0°-60°	1119.7	73.8
0°-90°	1517.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1517.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	476	476	476	476	476	
5°	472	473	475	475	475	45
15°	454	455	459	461	462	128
25°	422	424	431	433	435	194
35°	374	377	385	393	396	234
45°	314	319	331	348	357	242
55°	242	250	277	305	319	217
65°	161	176	220	254	272	160
75°	79	105	148	179	189	85
85°	20	28	34	36	38	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	476.5	476.5	476.5	476.5	476.5
2.5°	473.2	474.3	476.5	476.5	477.7
5°	472.0	473.2	475.4	475.4	475.4
7.5°	468.7	469.9	472.0	473.2	473.2
10°	465.3	466.5	468.7	469.9	470.9
12.5°	459.8	460.9	464.2	466.5	466.5
15°	454.1	455.4	458.7	460.9	462.1
17.5°	447.6	449.7	453.1	455.4	456.4
20°	438.6	440.8	445.3	448.6	449.7
22.5°	430.8	433.0	437.5	440.8	443.0
25°	421.9	424.0	430.8	433.0	435.2
27.5°	410.7	412.9	418.5	423.0	426.3
30°	399.6	401.7	408.5	414.0	416.2
32.5°	387.2	390.6	398.4	402.8	406.2
35°	373.9	377.1	385.1	392.9	396.2
37.5°	360.5	363.8	371.6	381.7	386.1
40°	344.9	349.3	359.4	372.7	375.0
42.5°	330.4	335.9	344.9	360.5	366.0
45°	313.6	319.2	331.4	348.2	357.1
47.5°	298.0	303.5	316.9	337.1	348.2
50°	279.0	286.8	303.5	327.0	338.2
52.5°	261.1	267.9	290.2	315.8	329.2
55°	242.2	250.0	276.7	304.7	319.2
57.5°	225.4	232.1	262.2	293.5	310.2
60°	204.2	213.2	247.7	281.2	298.0
62.5°	181.8	195.3	233.2	267.9	285.7
65°	160.7	176.3	219.9	254.4	272.3
67.5°	141.7	158.5	203.1	239.9	256.7
70°	119.4	140.6	186.4	222.0	241.0
72.5°	99.3	122.7	167.3	203.1	219.9
75°	79.3	104.8	148.4	178.6	188.6
77.5°	61.4	85.9	127.3	136.2	137.2
80°	45.7	68.0	94.9	96.0	99.3
82.5°	31.2	48.0	61.4	66.9	68.0
85°	20.0	28.0	34.5	35.8	37.9
87.5°	8.9	10.1	12.2	11.2	11.2
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)