

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: P881067

Luminaire Tested: **22CZ2-24VHE-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: P881067
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: 22CZ2-24VHE-RDP-UNV-B50
Description: 2X2 2400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

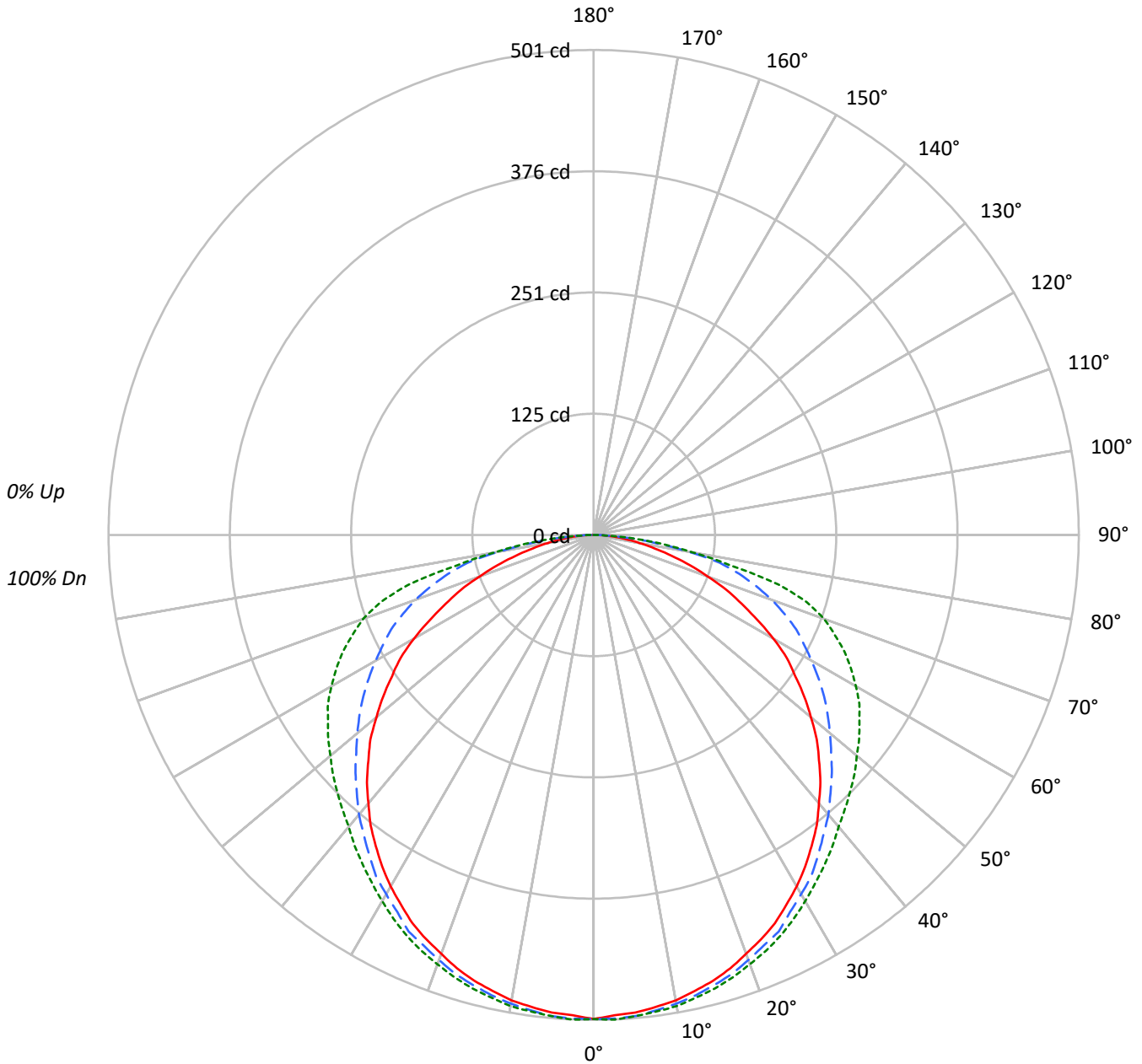
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1592.0 lumens
Efficiency: N/A
Efficacy: 79.6 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 (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

TEST NUMBER: P881067
CATALOG NUMBER: 22CZ2-24VHE-RDP-UNV-B50

Luminous Intensity Polar Plot





TEST NUMBER: P881067

CATALOG NUMBER: 22CZ2-24VHE-RDP-UNV-B50

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°	1419	1419	1419
5°	1411	1421	1421
10°	1407	1417	1424
15°	1400	1414	1424
20°	1390	1411	1425
25°	1386	1415	1430
30°	1374	1404	1432
35°	1359	1399	1440
40°	1341	1397	1458
45°	1321	1396	1504
50°	1293	1406	1566
55°	1257	1437	1657
60°	1216	1475	1775
65°	1132	1550	1919
70°	1040	1623	2099
75°	912	1707	2170
80°	784	1626	1704
85°	687	1182	1296



TEST NUMBER: P881067

CATALOG NUMBER: 22CZ2-24VHE-RDP-UNV-B50

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.3	3.0
10°-20°	135.8	8.5
20°-30°	207.2	13.0
30°-40°	253.0	15.9
40°-50°	270.5	17.0
50°-60°	261.1	16.4
60°-70°	224.8	14.1
70°-80°	152.1	9.6
80°-90°	40.1	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°	390.3	24.5
0°-40°	643.3	40.4
0°-60°	1175.0	73.8
0°-90°	1592.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1592.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	500	500	500	500	500	
5°	495	497	499	499	499	47
15°	477	478	481	484	485	134
25°	443	445	452	454	457	204
35°	392	396	404	412	416	245
45°	329	335	348	365	375	254
55°	254	262	290	320	335	228
65°	169	185	231	267	286	168
75°	83	110	156	187	198	89
85°	21	29	36	38	40	24
90°	0	0	0	0	0	



TEST NUMBER: P881067

CATALOG NUMBER: 22CZ2-24VHE-RDP-UNV-B50

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	500.1	500.1	500.1	500.1	500.1
2.5°	496.6	497.7	500.1	500.1	501.2
5°	495.4	496.6	498.9	498.9	498.9
7.5°	491.8	493.0	495.4	496.6	496.6
10°	488.3	489.5	491.8	493.0	494.3
12.5°	482.5	483.6	487.1	489.5	489.5
15°	476.7	477.8	481.3	483.6	484.8
17.5°	469.5	471.9	475.5	477.8	479.0
20°	460.3	462.6	467.2	470.9	471.9
22.5°	452.1	454.5	459.1	462.6	464.9
25°	442.7	445.0	452.1	454.5	456.8
27.5°	430.9	433.4	439.2	443.8	447.3
30°	419.3	421.6	428.6	434.6	436.9
32.5°	406.3	409.8	418.1	422.8	426.2
35°	392.3	395.8	404.0	412.1	415.8
37.5°	378.3	381.8	390.0	400.5	405.2
40°	361.9	366.5	377.1	391.2	393.5
42.5°	346.6	352.5	361.9	378.3	384.1
45°	329.1	334.9	347.9	365.4	374.7
47.5°	312.7	318.5	332.6	353.7	365.4
50°	292.8	300.9	318.5	343.1	354.8
52.5°	274.0	281.0	304.6	331.4	345.6
55°	254.1	262.4	290.5	319.7	334.9
57.5°	236.6	243.6	275.2	308.1	325.5
60°	214.3	223.7	259.9	295.1	312.7
62.5°	190.8	205.0	244.8	281.0	299.7
65°	168.6	185.0	230.8	267.0	285.8
67.5°	148.7	166.3	213.2	251.8	269.4
70°	125.3	147.6	195.6	233.1	253.0
72.5°	104.3	128.8	175.8	213.2	230.8
75°	83.2	110.1	155.7	187.4	197.9
77.5°	64.4	90.2	133.4	142.9	144.1
80°	48.0	71.4	99.5	100.7	104.3
82.5°	32.9	50.3	64.4	70.2	71.4
85°	21.1	29.4	36.3	37.5	39.8
87.5°	9.5	10.6	12.9	11.8	11.8
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)