

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: P881068

Luminaire Tested: **22CZ2-24VHE-S-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: P881068
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P475230)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-24VHE-S-UNV-B35
Description: 2X2 2400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

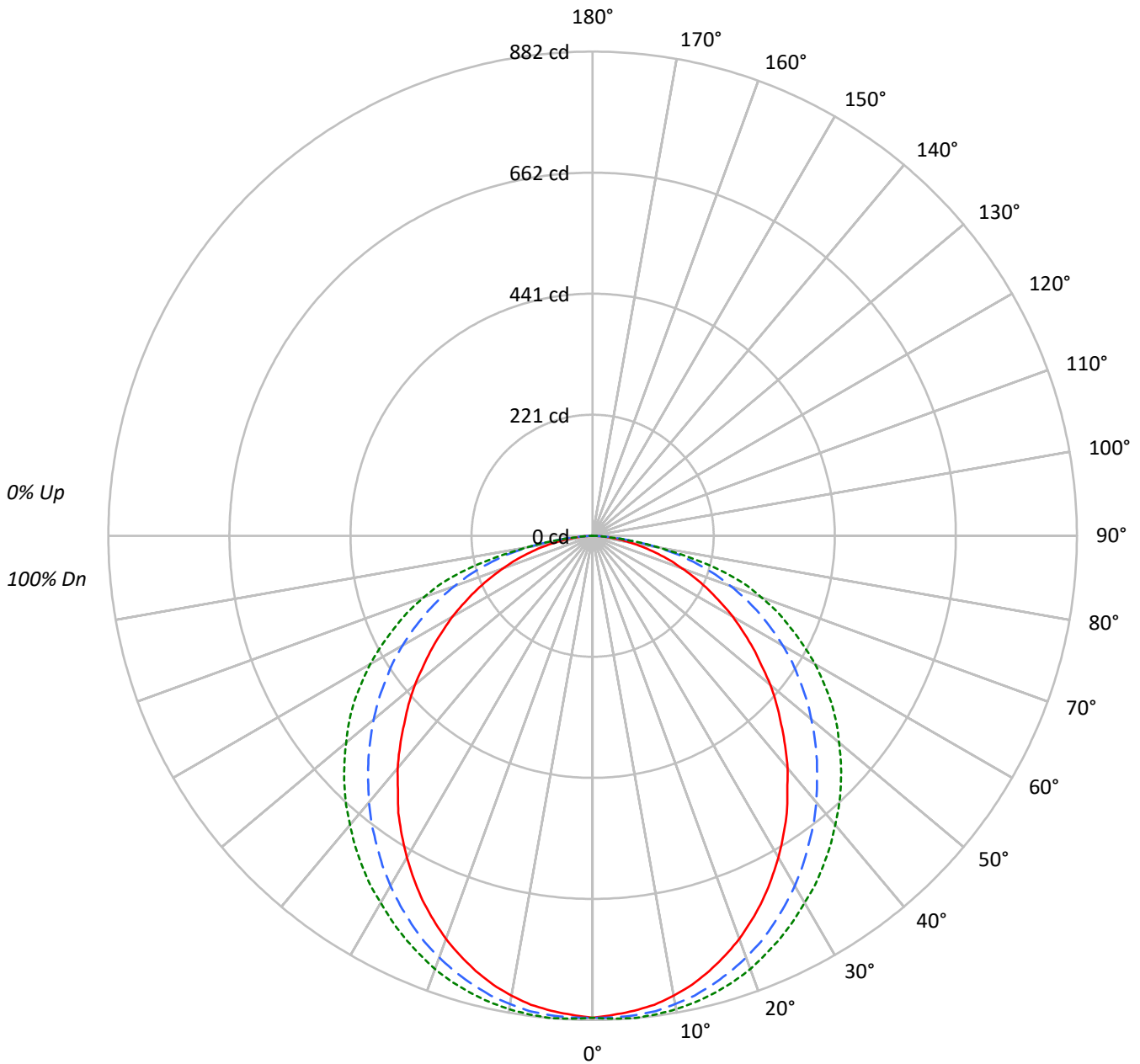
Lumens per Lamp: N/A
Luminaire Lumens: 2514.0 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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: P881068

CATALOG NUMBER: 22CZ2-24VHE-S-UNV-B35

Luminous Intensity Polar Plot





TEST NUMBER: P881068

CATALOG NUMBER: 22CZ2-24VHE-S-UNV-B35

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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83																			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43																			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37																			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26																			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2492	2492	2492
5°	2474	2498	2512
10°	2451	2496	2523
15°	2412	2485	2531
20°	2360	2468	2536
25°	2294	2443	2533
30°	2217	2412	2529
35°	2137	2377	2538
40°	2047	2347	2546
45°	1949	2317	2567
50°	1865	2296	2586
55°	1765	2278	2627
60°	1673	2269	2655
65°	1562	2251	2676
70°	1434	2217	2712
75°	1296	2158	2616
80°	1110	1912	1969
85°	892	1126	892



TEST NUMBER: P881068

CATALOG NUMBER: 22CZ2-24VHE-S-UNV-B35

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.3	3.3
10°-20°	238.0	9.5
20°-30°	357.5	14.2
30°-40°	426.4	17.0
40°-50°	440.8	17.5
50°-60°	405.3	16.1
60°-70°	322.7	12.8
70°-80°	197.1	7.8
80°-90°	42.8	1.7
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°	678.8	27.0
0°-40°	1105.2	44.0
0°-60°	1951.4	77.6
0°-90°	2514.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2514.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	878	878	878	878	878	
5°	869	871	877	881	882	82
15°	821	830	846	858	862	231
25°	733	750	780	802	809	337
35°	617	643	686	722	733	385
45°	486	520	578	624	640	376
55°	357	396	460	513	531	319
65°	233	272	335	382	398	230
75°	118	153	197	231	239	126
85°	27	33	35	30	27	32
90°	0	0	0	0	0	



TEST NUMBER: P881068

CATALOG NUMBER: 22CZ2-24VHE-S-UNV-B35

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	878.2	878.2	878.2	878.2	878.2
2.5°	873.5	874.5	878.2	880.6	880.6
5°	868.6	871.0	877.0	880.6	881.8
7.5°	861.6	865.1	873.5	878.2	879.5
10°	850.8	855.6	866.3	873.5	875.8
12.5°	837.7	844.8	857.9	867.5	869.8
15°	821.0	830.5	845.9	857.9	861.6
17.5°	801.9	813.7	832.9	847.2	852.0
20°	781.5	793.5	817.4	834.0	840.0
22.5°	757.7	773.2	800.6	819.8	824.6
25°	732.7	750.5	780.4	801.9	809.0
27.5°	705.1	726.8	758.9	785.2	791.2
30°	676.5	699.2	736.2	764.8	772.0
32.5°	646.6	673.0	712.3	744.6	754.2
35°	616.8	643.1	686.1	722.0	732.7
37.5°	582.2	613.3	661.1	698.1	711.1
40°	552.5	582.2	633.7	674.2	687.3
42.5°	519.0	551.3	605.0	649.1	664.6
45°	485.6	520.2	577.5	624.1	639.6
47.5°	454.6	489.1	548.8	597.9	613.3
50°	422.4	458.2	520.2	570.3	585.9
52.5°	387.8	427.1	491.6	541.7	559.7
55°	356.8	396.1	460.5	513.1	531.0
57.5°	324.5	365.1	432.0	482.1	498.9
60°	294.8	334.1	399.8	448.6	467.8
62.5°	262.5	303.0	367.4	415.2	433.2
65°	232.6	272.1	335.3	381.9	398.5
67.5°	202.8	242.3	301.8	346.1	365.1
70°	172.9	212.5	267.2	310.3	326.9
72.5°	146.8	181.4	233.8	273.3	288.8
75°	118.2	152.8	196.8	231.4	238.6
77.5°	91.9	122.9	159.9	175.3	177.9
80°	67.9	91.9	117.0	120.5	120.5
82.5°	45.3	63.2	72.8	73.9	72.8
85°	27.4	33.4	34.6	29.9	27.4
87.5°	9.5	9.5	5.9	3.5	1.2
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)