

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: P881074

Luminaire Tested: **22CZ2-24VHE-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: P881074
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-UNV-B35
Description: 2X2 2400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

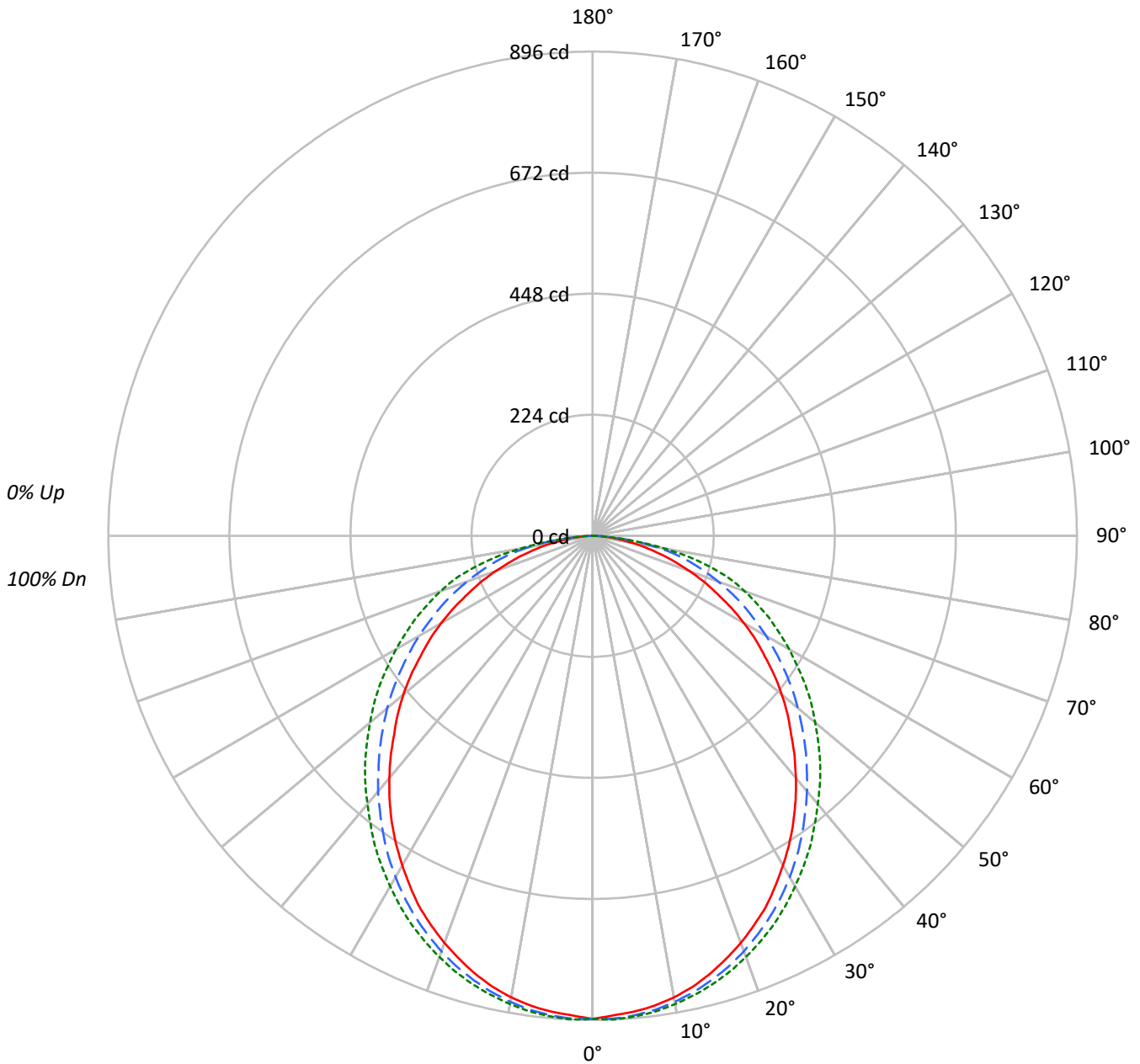
Lumens per Lamp: N/A
Luminaire Lumens: 2465.0 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.25 / 1.33
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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									
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	77	85	79	75	81	77	73	78	75	71	69																			
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58																			
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50																			
5	76	63	54	47	73	62	53	47	59	52	46	57	51	46	56	50	45	43																			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38																			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33																			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30																			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27																			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2537	2537	2537
5°	2518	2537	2543
10°	2499	2523	2535
15°	2465	2501	2523
20°	2421	2471	2504
25°	2373	2434	2484
30°	2308	2390	2454
35°	2243	2339	2431
40°	2167	2287	2401
45°	2084	2235	2389
50°	2017	2189	2371
55°	1922	2142	2376
60°	1836	2105	2383
65°	1707	2077	2420
70°	1578	2048	2481
75°	1411	2039	2496
80°	1183	1933	2178
85°	918	1325	1237



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.5	3.4
10°-20°	239.7	9.7
20°-30°	357.5	14.5
30°-40°	422.0	17.1
40°-50°	430.1	17.4
50°-60°	387.9	15.7
60°-70°	304.9	12.4
70°-80°	190.9	7.7
80°-90°	47.6	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°	681.7	27.7
0°-40°	1103.7	44.8
0°-60°	1921.7	78.0
0°-90°	2465.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2465.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	894	894	894	894	894	
5°	884	886	891	893	893	84
15°	839	843	851	857	859	236
25°	758	764	777	789	793	348
35°	648	656	675	694	702	405
45°	519	531	557	584	595	402
55°	389	401	433	466	480	349
65°	254	270	309	344	360	253
75°	129	148	186	219	228	137
85°	28	36	41	41	38	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	894.0	894.0	894.0	894.0	894.0
2.5°	888.2	890.3	894.5	896.1	896.1
5°	884.0	886.1	890.8	892.9	892.9
7.5°	877.2	879.3	885.1	887.7	888.2
10°	867.4	869.9	875.7	879.9	879.9
12.5°	854.9	857.4	864.7	869.9	870.4
15°	839.2	842.9	851.2	857.4	859.0
17.5°	821.0	826.7	836.1	844.0	845.5
20°	801.7	807.4	818.3	827.2	829.4
22.5°	780.3	785.6	798.5	809.6	812.1
25°	758.0	763.7	777.3	789.2	793.4
27.5°	731.4	738.2	754.3	767.8	772.1
30°	704.3	712.7	729.3	744.4	749.1
32.5°	676.7	684.5	703.2	719.4	725.7
35°	647.5	655.9	675.2	693.9	701.8
37.5°	616.8	625.1	646.0	667.3	674.6
40°	585.1	594.9	617.4	640.2	648.1
42.5°	552.8	563.1	586.5	612.1	622.5
45°	519.4	530.8	556.9	584.0	595.4
47.5°	489.1	498.5	525.7	555.3	566.2
50°	456.8	465.7	495.9	525.7	537.1
52.5°	424.0	432.4	464.7	495.9	510.0
55°	388.6	400.6	432.9	466.2	480.3
57.5°	357.4	368.3	401.7	435.5	449.1
60°	323.5	334.9	370.9	405.3	419.9
62.5°	289.6	302.1	338.6	375.6	389.2
65°	254.2	269.8	309.4	343.8	360.5
67.5°	224.0	239.1	278.2	314.1	328.7
70°	190.2	207.9	246.9	283.4	299.0
72.5°	158.3	176.1	216.2	252.7	268.2
75°	128.7	147.9	186.0	219.3	227.7
77.5°	100.1	118.3	156.3	175.6	184.5
80°	72.4	90.1	118.3	131.3	133.3
82.5°	48.9	64.1	80.3	83.9	81.8
85°	28.2	35.9	40.7	40.7	38.0
87.5°	11.4	11.4	10.0	6.2	3.6
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)