

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: P881076

Luminaire Tested: **22CZ2-24VHE-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: P881076  
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-B50  
Description: 2X2 2400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RIBBED LENS  
  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

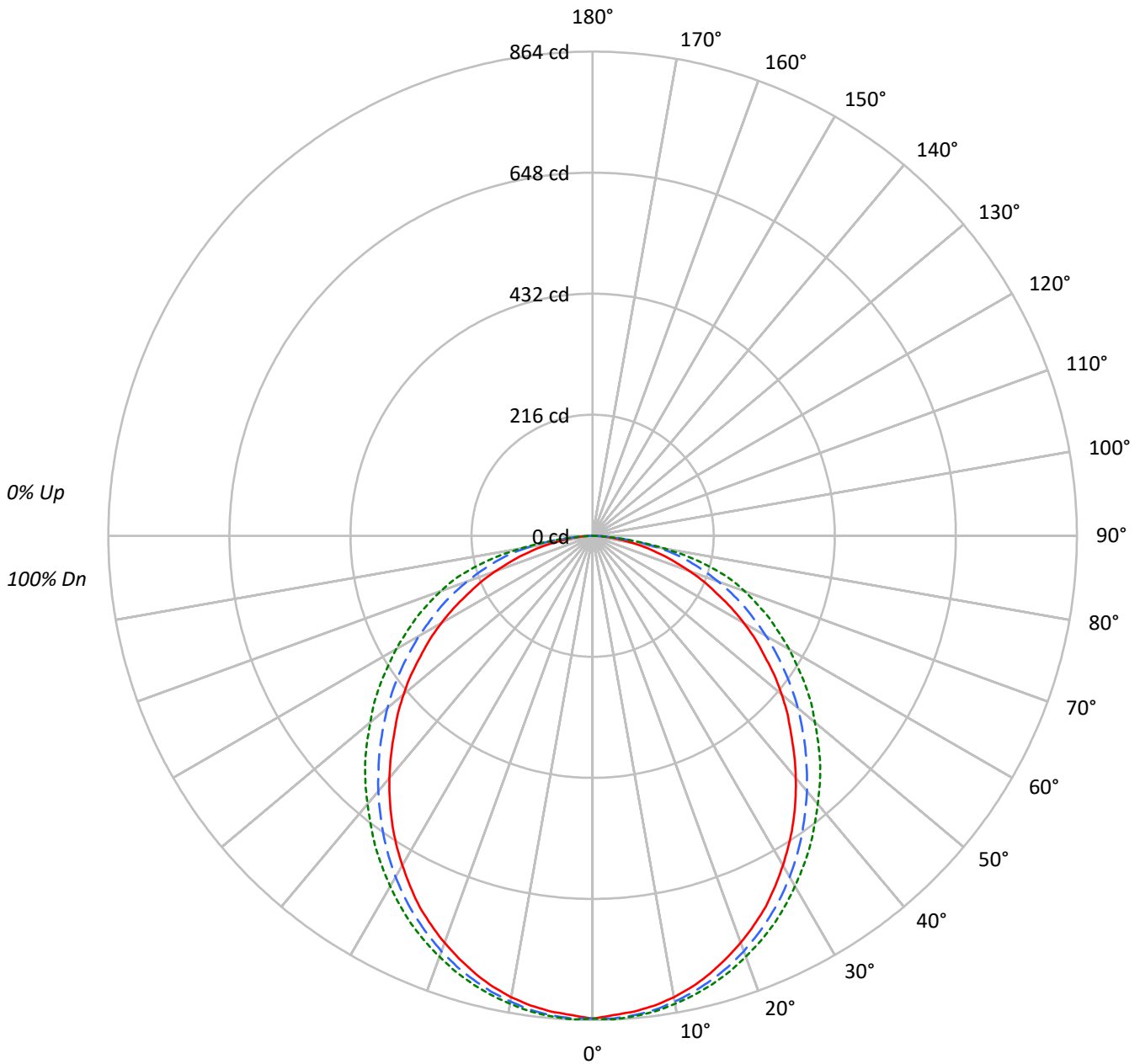
Lumens per Lamp: N/A  
Luminaire Lumens: 2376.0 lumens  
Efficiency: N/A  
Efficacy: 118.8 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.25 / 1.33  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

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°	2445	2445	2445
5°	2427	2446	2452
10°	2409	2432	2444
15°	2376	2410	2432
20°	2334	2382	2414
25°	2287	2346	2394
30°	2224	2303	2366
35°	2162	2254	2343
40°	2089	2204	2314
45°	2009	2154	2303
50°	1944	2110	2285
55°	1853	2064	2290
60°	1769	2029	2297
65°	1645	2002	2333
70°	1521	1975	2391
75°	1361	1966	2406
80°	1141	1863	2100
85°	886	1276	1192



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.4	3.4
10°-20°	231.1	9.7
20°-30°	344.6	14.5
30°-40°	406.8	17.1
40°-50°	414.6	17.4
50°-60°	373.9	15.7
60°-70°	293.9	12.4
70°-80°	184.0	7.7
80°-90°	45.9	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°	657.1	27.7
0°-40°	1063.8	44.8
0°-60°	1852.3	78.0
0°-90°	2376.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2376.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	862	862	862	862	862	
5°	852	854	859	861	861	81
15°	809	812	820	826	828	228
25°	731	736	749	761	765	336
35°	624	632	651	669	676	390
45°	501	512	537	563	574	387
55°	375	386	417	449	463	336
65°	245	260	298	331	348	244
75°	124	143	179	211	220	132
85°	27	35	39	39	37	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	861.7	861.7	861.7	861.7	861.7
2.5°	856.1	858.2	862.2	863.7	863.7
5°	852.1	854.1	858.7	860.7	860.7
7.5°	845.6	847.6	853.2	855.6	856.1
10°	836.1	838.5	844.0	848.1	848.1
12.5°	824.0	826.5	833.5	838.5	839.0
15°	808.9	812.4	820.5	826.5	828.0
17.5°	791.4	796.9	805.9	813.5	815.0
20°	772.8	778.3	788.8	797.3	799.4
22.5°	752.2	757.2	769.7	780.4	782.8
25°	730.6	736.1	749.2	760.7	764.8
27.5°	705.0	711.5	727.1	740.1	744.2
30°	678.9	687.0	703.0	717.5	722.1
32.5°	652.3	659.8	677.8	693.4	699.5
35°	624.1	632.2	650.8	668.8	676.4
37.5°	594.5	602.6	622.7	643.2	650.2
40°	563.9	573.4	595.1	617.1	624.7
42.5°	532.8	542.8	565.3	590.0	600.0
45°	500.6	511.6	536.8	562.9	573.9
47.5°	471.5	480.5	506.7	535.3	545.8
50°	440.3	448.9	478.0	506.7	517.7
52.5°	408.7	416.8	447.9	478.0	491.6
55°	374.6	386.1	417.3	449.4	462.9
57.5°	344.5	355.0	387.2	419.7	432.8
60°	311.8	322.8	357.5	390.7	404.8
62.5°	279.2	291.2	326.3	362.0	375.1
65°	245.0	260.1	298.2	331.4	347.5
67.5°	216.0	230.5	268.2	302.8	316.9
70°	183.3	200.4	238.0	273.2	288.2
72.5°	152.6	169.7	208.3	243.6	258.6
75°	124.1	142.6	179.3	211.4	219.5
77.5°	96.4	114.0	150.6	169.3	177.8
80°	69.8	86.9	114.0	126.5	128.5
82.5°	47.2	61.8	77.4	80.9	78.9
85°	27.2	34.6	39.2	39.2	36.6
87.5°	11.0	11.0	9.6	6.0	3.5
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)