

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: P880623

Luminaire Tested: **22CZ2-20VHE-B2750-W2D-3000K**

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: P880623  
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: 22CZ2-20VHE-B2750-W2D-3000K  
Description: 2X2 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RIBBED LENS

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

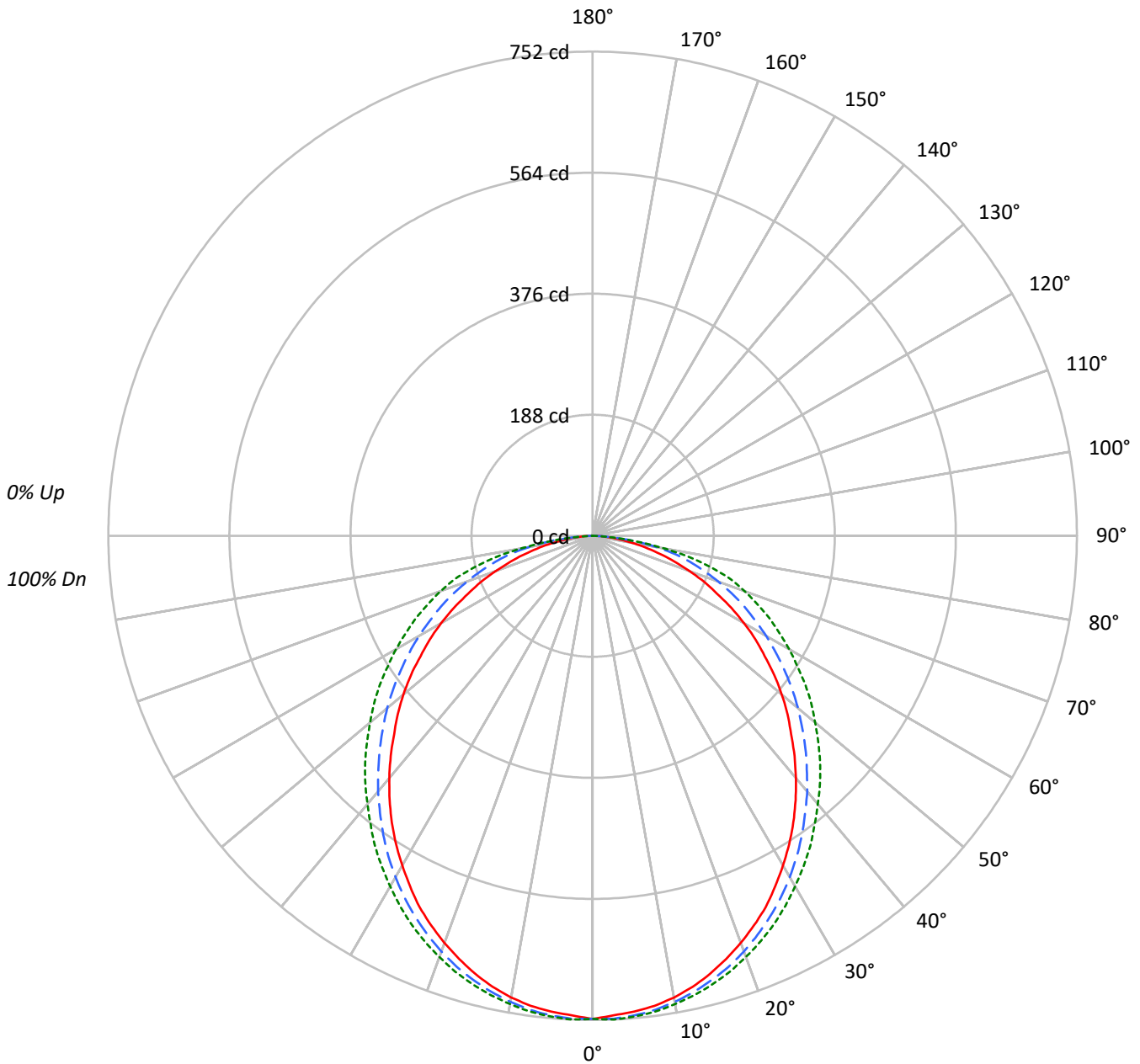
Lumens per Lamp: N/A  
Luminaire Lumens: 2069.0 lumens  
Efficiency: N/A  
Efficacy: 129.3 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.25 / 1.33  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 16  
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°	2129	2129	2129
5°	2113	2130	2135
10°	2098	2118	2128
15°	2069	2099	2118
20°	2032	2074	2102
25°	1992	2043	2085
30°	1937	2006	2060
35°	1883	1963	2040
40°	1819	1919	2015
45°	1749	1876	2005
50°	1692	1838	1990
55°	1614	1798	1994
60°	1541	1767	2000
65°	1432	1744	2032
70°	1324	1719	2082
75°	1184	1711	2095
80°	992	1623	1829
85°	768	1110	1039



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.9	3.4
10°-20°	201.2	9.7
20°-30°	300.1	14.5
30°-40°	354.2	17.1
40°-50°	361.0	17.4
50°-60°	325.6	15.7
60°-70°	255.9	12.4
70°-80°	160.2	7.7
80°-90°	40.0	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°	572.2	27.7
0°-40°	926.4	44.8
0°-60°	1613.0	78.0
0°-90°	2069.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2069.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	750	750	750	750	750	
5°	742	744	748	750	750	70
15°	704	708	714	720	721	198
25°	636	641	652	662	666	292
35°	544	550	567	582	589	340
45°	436	446	467	490	500	337
55°	326	336	363	391	403	293
65°	213	226	260	289	303	213
75°	108	124	156	184	191	115
85°	24	30	34	34	32	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	750.4	750.4	750.4	750.4	750.4
2.5°	745.5	747.3	750.8	752.1	752.1
5°	742.0	743.7	747.7	749.5	749.5
7.5°	736.3	738.0	742.9	745.1	745.5
10°	728.1	730.2	735.0	738.6	738.6
12.5°	717.6	719.7	725.8	730.2	730.6
15°	704.4	707.5	714.5	719.7	721.0
17.5°	689.1	693.9	701.8	708.4	709.7
20°	672.9	677.7	686.9	694.3	696.1
22.5°	655.0	659.4	670.3	679.5	681.7
25°	636.2	641.0	652.4	662.4	666.0
27.5°	613.9	619.6	633.2	644.5	648.0
30°	591.2	598.2	612.2	624.8	628.8
32.5°	568.0	574.6	590.2	603.8	609.1
35°	543.5	550.5	566.7	582.4	589.0
37.5°	517.7	524.7	542.2	560.1	566.2
40°	491.1	499.3	518.2	537.3	544.0
42.5°	464.0	472.6	492.3	513.8	522.5
45°	435.9	445.5	467.4	490.2	499.7
47.5°	410.6	418.4	441.2	466.1	475.3
50°	383.4	390.9	416.3	441.2	450.8
52.5°	355.9	363.0	390.1	416.3	428.1
55°	326.2	336.3	363.4	391.3	403.1
57.5°	300.0	309.1	337.2	365.5	376.9
60°	271.5	281.1	311.3	340.2	352.5
62.5°	243.1	253.6	284.2	315.3	326.7
65°	213.3	226.5	259.7	288.6	302.6
67.5°	188.1	200.7	233.5	263.7	275.9
70°	159.6	174.5	207.2	237.9	250.9
72.5°	132.9	147.8	181.4	212.1	225.2
75°	108.0	124.1	156.1	184.1	191.1
77.5°	84.0	99.3	131.2	147.4	154.8
80°	60.7	75.6	99.3	110.2	111.9
82.5°	41.1	53.8	67.4	70.4	68.7
85°	23.6	30.2	34.1	34.1	31.9
87.5°	9.6	9.6	8.4	5.2	3.1
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)