

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: P842814

Luminaire Tested: **14CZ2-20-UNV-B50**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842814  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275502)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-20-UNV-B50  
Description: 1X4 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RIBBED LENS  
  
Light Source: -  
Ballast/Driver: -

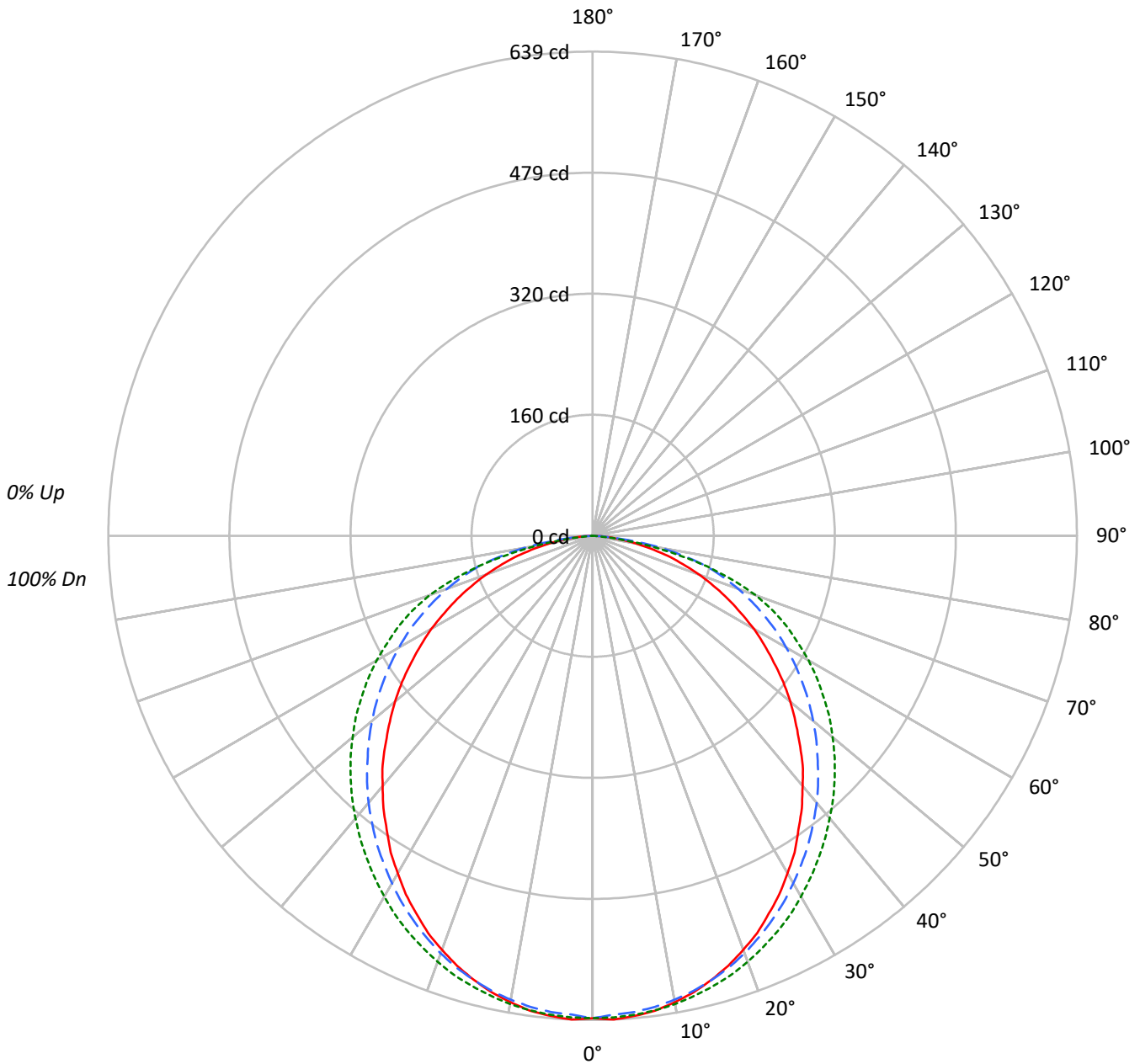
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1848.0 lumens  
Efficiency: N/A  
Efficacy: 115.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 16  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	90	88	90	87	85	83																		
	2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69																		
	3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58																		
	4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49																		
	5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																		
	6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																		
	7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32																		
	8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29																		
	9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26																		
	10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24																		

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1797	1797	1797
5°	1803	1788	1798
10°	1792	1782	1799
15°	1773	1774	1798
20°	1746	1761	1797
25°	1713	1744	1795
30°	1676	1726	1792
35°	1632	1711	1790
40°	1588	1695	1793
45°	1540	1676	1803
50°	1494	1668	1815
55°	1437	1663	1831
60°	1387	1666	1857
65°	1315	1670	1885
70°	1235	1684	1884
75°	1119	1699	1704
80°	918	1466	1211
85°	680	693	279



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.2	3.3
10°-20°	172.1	9.3
20°-30°	259.2	14.0
30°-40°	311.1	16.8
40°-50°	324.2	17.5
50°-60°	300.2	16.2
60°-70°	242.5	13.1
70°-80°	147.9	8.0
80°-90°	30.5	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°	491.6	26.6
0°-40°	802.7	43.4
0°-60°	1427.1	77.2
0°-90°	1848.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1848.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	637	637	637	637	637	
5°	636	635	631	635	635	60
15°	607	607	607	615	615	171
25°	550	553	560	574	576	254
35°	474	481	496	515	520	297
45°	386	397	420	443	452	298
55°	292	307	338	364	372	262
65°	197	216	250	275	282	195
75°	103	125	156	158	156	108
85°	21	31	21	12	9	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	636.7	636.7	636.7	636.7	636.7
2.5°	639.1	637.1	632.6	637.1	636.2
5°	636.2	634.6	630.9	635.4	634.6
7.5°	632.1	630.4	627.1	632.6	631.7
10°	625.1	624.3	621.8	628.0	627.6
12.5°	616.9	616.5	615.2	622.2	621.8
15°	606.6	606.9	606.9	615.2	615.2
17.5°	595.0	595.8	597.5	606.6	607.8
20°	581.4	583.1	586.4	596.7	598.3
22.5°	567.5	568.7	573.6	585.9	587.6
25°	550.1	553.4	560.0	574.0	576.5
27.5°	533.6	536.5	545.6	560.0	564.2
30°	514.2	518.8	529.6	545.2	549.8
32.5°	495.8	500.6	513.0	531.1	535.2
35°	473.5	480.9	496.5	514.7	519.6
37.5°	453.3	460.2	478.1	497.8	503.6
40°	431.0	439.7	459.9	480.9	486.7
42.5°	410.4	418.6	440.5	461.9	469.8
45°	385.7	397.3	419.9	443.3	451.6
47.5°	363.0	374.6	400.6	425.6	433.1
50°	340.3	352.7	379.9	405.9	413.3
52.5°	316.9	330.1	359.3	385.3	394.0
55°	292.1	307.4	338.0	364.3	372.1
57.5°	268.6	284.3	316.9	343.6	351.5
60°	245.6	261.7	295.1	320.6	328.9
62.5°	220.1	239.0	273.6	298.7	304.9
65°	196.9	216.3	250.1	275.2	282.3
67.5°	172.7	193.7	227.5	250.5	257.2
70°	149.6	171.4	204.0	225.4	228.3
72.5°	124.9	147.1	180.0	193.7	193.7
75°	102.6	125.2	155.8	158.3	156.2
77.5°	78.3	103.5	123.2	118.2	113.3
80°	56.5	81.2	90.2	81.2	74.5
82.5°	37.9	58.9	54.3	43.2	38.3
85°	21.0	31.3	21.4	11.9	8.6
87.5°	7.8	7.0	2.0	2.0	2.0
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)