

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: P842802

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842802  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P294787)  
Test Lab: INNOVATIONS CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-20-HRP-UNV-B50  
Description: 1X4 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND HRP LENS

Light Source: -  
Ballast/Driver: -

**Summary**

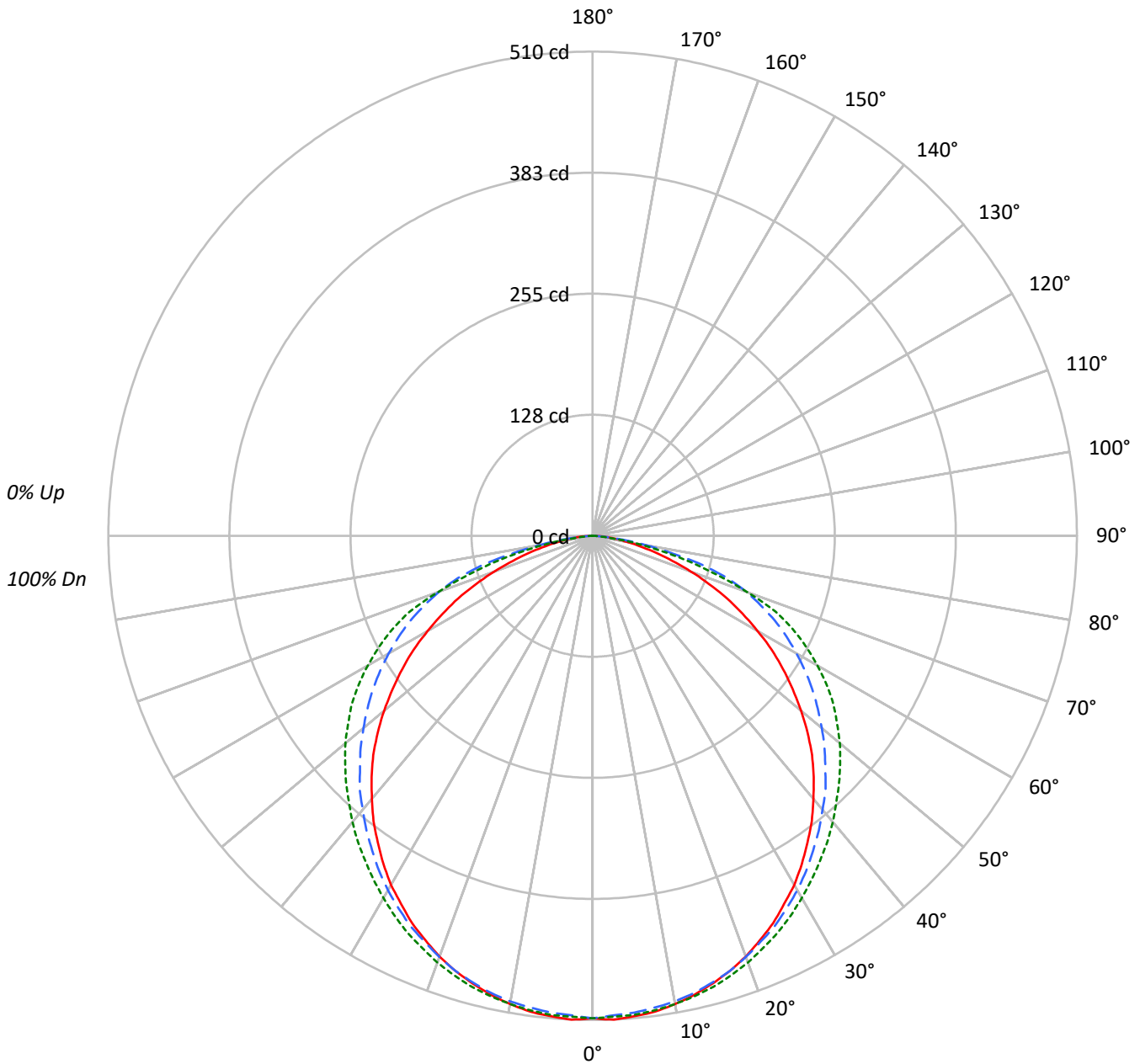
Lumens per Lamp: N/A  
Luminaire Lumens: 1497.0 lumens  
Efficiency: N/A  
Efficacy: 93.6 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84																			
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	64	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	42																			
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37																			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33																			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	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	38	31	26	37	30	26	37	30	25	36	30	25	24																			

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

	0°	45°	90°
0°	1435	1435	1435
5°	1439	1429	1435
10°	1435	1428	1435
15°	1427	1424	1437
20°	1417	1418	1437
25°	1402	1413	1437
30°	1384	1405	1436
35°	1359	1395	1439
40°	1332	1388	1450
45°	1304	1383	1466
50°	1259	1383	1493
55°	1205	1390	1524
60°	1132	1400	1544
65°	1044	1415	1553
70°	909	1418	1429
75°	749	1320	1155
80°	588	949	772
85°	460	366	181



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.1	3.2
10°-20°	138.1	9.2
20°-30°	209.7	14.0
30°-40°	254.1	17.0
40°-50°	267.8	17.9
50°-60°	250.0	16.7
60°-70°	199.8	13.3
70°-80°	109.9	7.3
80°-90°	19.4	1.3
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°	396.0	26.4
0°-40°	650.1	43.4
0°-60°	1167.9	78.0
0°-90°	1497.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1497.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	508	508	508	508	508	
5°	508	506	504	508	506	48
15°	488	488	487	492	492	138
25°	450	451	454	460	461	207
35°	394	398	405	415	418	247
45°	327	333	346	362	367	251
55°	245	257	282	302	310	219
65°	156	176	212	229	232	154
75°	69	98	121	109	106	74
85°	14	18	11	7	6	17
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	508.3	508.3	508.3	508.3	508.3
2.5°	510.2	508.8	505.6	508.3	507.0
5°	508.0	506.5	504.2	507.5	506.5
7.5°	505.6	503.7	501.3	505.1	504.2
10°	500.8	499.4	498.1	501.3	500.8
12.5°	495.2	494.7	493.3	497.1	496.7
15°	488.2	488.2	487.2	491.9	491.9
17.5°	480.6	480.1	480.6	485.8	485.3
20°	471.6	471.6	472.1	478.3	478.3
22.5°	460.8	461.3	462.7	470.2	469.7
25°	450.1	450.9	453.8	460.3	461.3
27.5°	436.9	439.2	442.4	450.4	451.4
30°	424.6	426.0	431.1	438.8	440.5
32.5°	410.0	412.8	418.5	427.0	429.3
35°	394.4	398.3	404.8	415.2	417.6
37.5°	379.0	382.3	391.2	401.9	406.2
40°	361.6	367.2	376.6	388.8	393.5
42.5°	344.5	350.2	363.0	375.6	379.9
45°	326.7	332.8	346.4	362.0	367.2
47.5°	306.9	314.0	331.4	347.9	353.5
50°	286.6	295.6	314.9	333.3	339.9
52.5°	265.5	276.7	298.9	318.2	324.4
55°	244.8	257.0	282.5	302.2	309.7
57.5°	223.6	236.8	265.5	288.1	292.3
60°	200.5	216.6	248.0	267.8	273.5
62.5°	178.0	196.3	230.2	249.0	253.7
65°	156.3	176.1	211.8	229.2	232.5
67.5°	132.7	156.3	191.6	207.6	208.5
70°	110.2	137.5	171.8	179.3	173.2
72.5°	88.0	117.2	148.8	142.6	137.5
75°	68.7	98.4	121.0	108.8	105.9
77.5°	50.9	80.5	86.6	80.1	74.8
80°	36.2	63.5	58.4	49.9	47.5
82.5°	24.9	40.0	32.0	24.9	21.7
85°	14.2	17.9	11.3	7.0	5.6
87.5°	6.1	4.3	2.4	1.9	1.9
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)