

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: P842817

Luminaire Tested: **14CZ2-25-HRP-UNV-B50**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842817  
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: 14CZ2-25-HRP-UNV-B50  
Description: 1X4 2500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND HRP LENS

Light Source: -  
Ballast/Driver: -

**Summary**

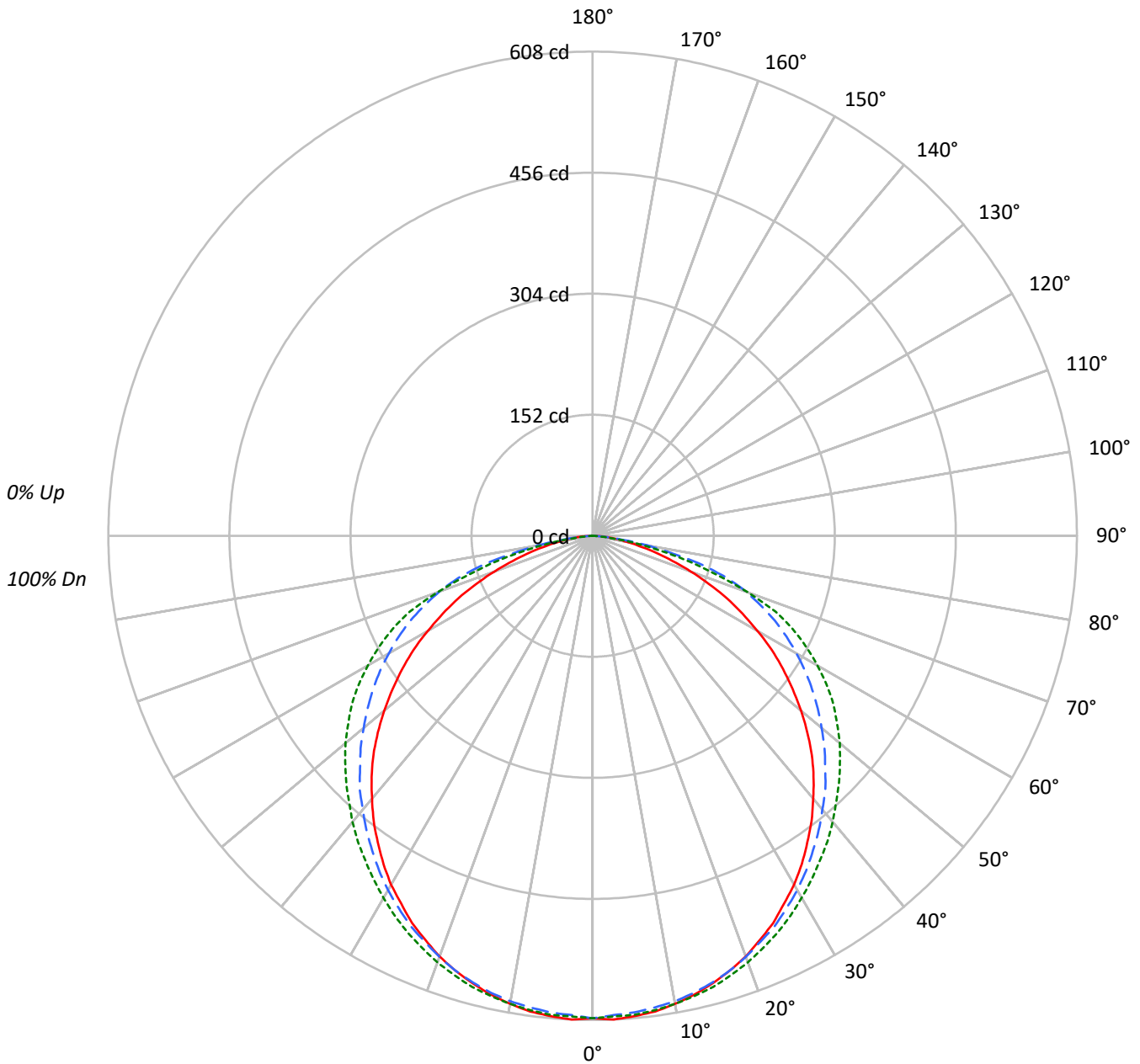
Lumens per Lamp: N/A  
Luminaire Lumens: 1784.0 lumens  
Efficiency: N/A  
Efficacy: 93.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 19  
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°	1710	1710	1710
5°	1715	1702	1711
10°	1711	1701	1711
15°	1700	1697	1713
20°	1688	1690	1712
25°	1671	1684	1712
30°	1649	1675	1711
35°	1620	1662	1715
40°	1588	1654	1728
45°	1554	1648	1747
50°	1500	1648	1778
55°	1436	1656	1816
60°	1349	1669	1840
65°	1244	1686	1851
70°	1084	1689	1703
75°	893	1573	1376
80°	702	1131	920
85°	547	437	217



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.4	3.2
10°-20°	164.6	9.2
20°-30°	249.9	14.0
30°-40°	302.8	17.0
40°-50°	319.1	17.9
50°-60°	297.9	16.7
60°-70°	238.1	13.3
70°-80°	131.0	7.3
80°-90°	23.1	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°	471.9	26.5
0°-40°	774.7	43.4
0°-60°	1391.8	78.0
0°-90°	1784.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1784.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	606	606	606	606	606	
5°	605	604	601	605	604	58
15°	582	582	581	586	586	164
25°	536	537	541	549	550	247
35°	470	475	482	495	498	294
45°	389	397	413	431	438	300
55°	292	306	337	360	369	260
65°	186	210	252	273	277	183
75°	82	117	144	130	126	88
85°	17	21	14	8	7	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	605.8	605.8	605.8	605.8	605.8
2.5°	608.1	606.4	602.5	605.8	604.2
5°	605.4	603.7	600.8	604.8	603.7
7.5°	602.5	600.2	597.4	602.0	600.8
10°	596.8	595.1	593.6	597.4	596.8
12.5°	590.2	589.6	587.9	592.4	591.9
15°	581.8	581.8	580.7	586.2	586.2
17.5°	572.7	572.1	572.7	579.0	578.4
20°	562.1	562.1	562.6	570.0	570.0
22.5°	549.1	549.7	551.4	560.4	559.8
25°	536.4	537.4	540.8	548.6	549.7
27.5°	520.6	523.4	527.3	536.8	537.9
30°	506.0	507.7	513.8	522.9	525.0
32.5°	488.7	491.9	498.7	508.8	511.7
35°	470.1	474.6	482.4	494.8	497.6
37.5°	451.6	455.6	466.2	479.0	484.1
40°	430.9	437.6	448.8	463.4	468.9
42.5°	410.6	417.4	432.6	447.6	452.7
45°	389.3	396.7	412.8	431.4	437.6
47.5°	365.7	374.2	395.0	414.6	421.2
50°	341.6	352.2	375.2	397.2	405.0
52.5°	316.5	329.8	356.2	379.2	386.6
55°	291.7	306.2	336.6	360.2	369.1
57.5°	266.5	282.2	316.5	343.3	348.4
60°	238.9	258.1	295.6	319.1	326.0
62.5°	212.1	234.0	274.3	296.7	302.4
65°	186.3	209.8	252.4	273.1	277.1
67.5°	158.2	186.3	228.3	247.5	248.4
70°	131.3	163.8	204.7	213.7	206.4
72.5°	104.9	139.7	177.3	169.9	163.8
75°	81.9	117.3	144.2	129.6	126.2
77.5°	60.6	96.0	103.2	95.4	89.2
80°	43.2	75.7	69.6	59.5	56.6
82.5°	29.7	47.7	38.2	29.7	25.8
85°	16.9	21.3	13.5	8.4	6.7
87.5°	7.2	5.1	2.8	2.3	2.3
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)