

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: P842816

Luminaire Tested: **14CZ2-25-HRP-UNV-B40**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842816  
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-B40  
Description: 1X4 2500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND HRP LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

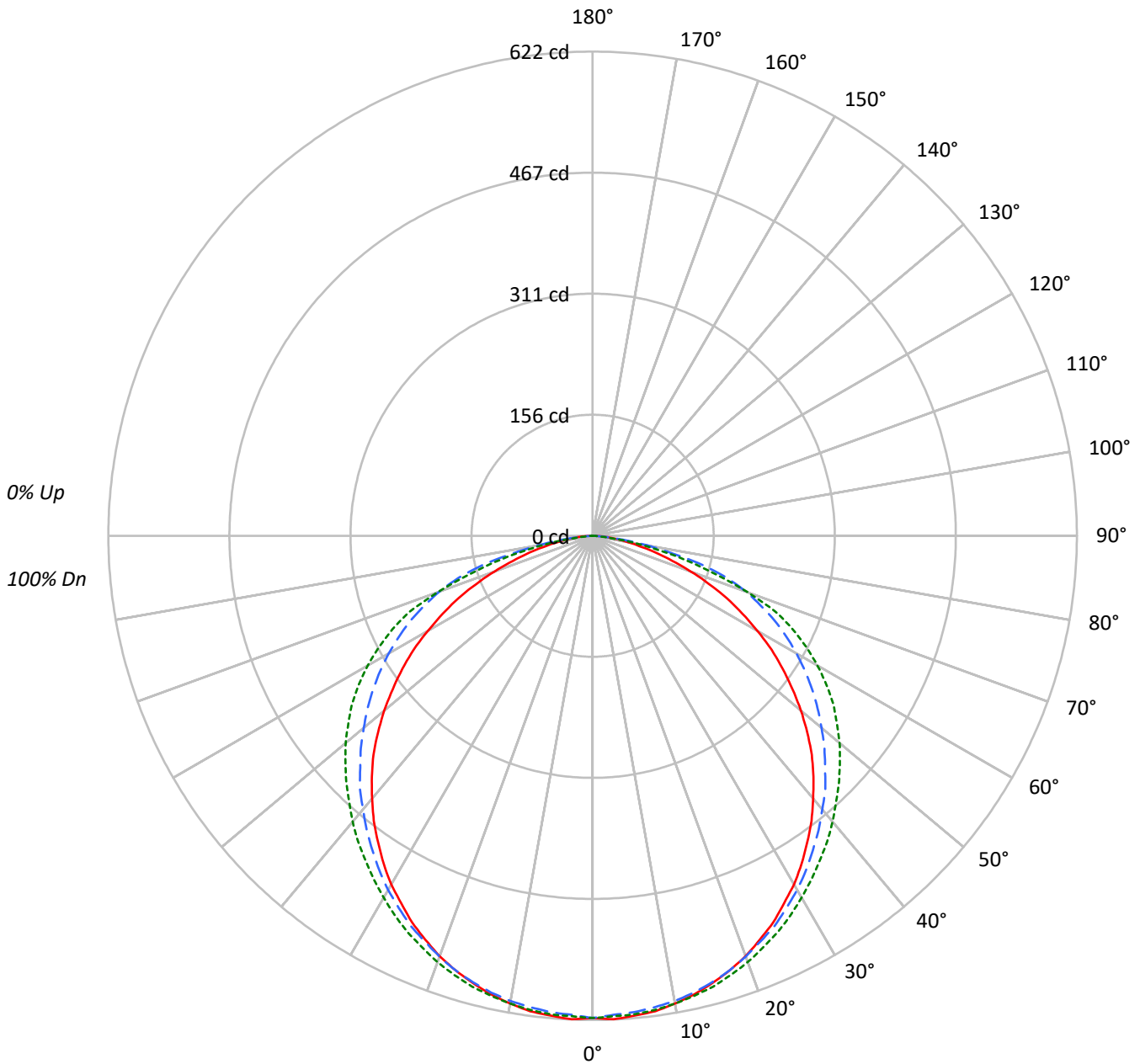
Lumens per Lamp: N/A  
Luminaire Lumens: 1824.0 lumens  
Efficiency: N/A  
Efficacy: 96.0 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	1748	1748	1748
5°	1754	1741	1749
10°	1749	1740	1749
15°	1738	1735	1751
20°	1726	1728	1751
25°	1708	1722	1750
30°	1686	1712	1750
35°	1656	1699	1753
40°	1623	1691	1766
45°	1589	1685	1786
50°	1533	1685	1818
55°	1468	1694	1857
60°	1379	1706	1882
65°	1272	1724	1892
70°	1108	1727	1742
75°	914	1609	1407
80°	717	1156	941
85°	560	447	220



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.6	3.2
10°-20°	168.3	9.2
20°-30°	255.5	14.0
30°-40°	309.6	17.0
40°-50°	326.3	17.9
50°-60°	304.6	16.7
60°-70°	243.4	13.3
70°-80°	133.9	7.3
80°-90°	23.6	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°	482.4	26.5
0°-40°	792.1	43.4
0°-60°	1423.0	78.0
0°-90°	1824.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1824.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	619	619	619	619	619	
5°	619	617	614	618	617	59
15°	595	595	594	599	599	168
25°	548	549	553	561	562	252
35°	481	485	493	506	509	301
45°	398	406	422	441	447	306
55°	298	313	344	368	377	266
65°	190	214	258	279	283	187
75°	84	120	148	132	129	90
85°	17	22	14	9	7	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	619.4	619.4	619.4	619.4	619.4
2.5°	621.7	619.9	616.0	619.4	617.8
5°	618.9	617.2	614.3	618.4	617.2
7.5°	616.0	613.7	610.8	615.4	614.3
10°	610.2	608.5	606.9	610.8	610.2
12.5°	603.4	602.8	601.1	605.7	605.1
15°	594.8	594.8	593.7	599.3	599.3
17.5°	585.5	585.0	585.5	591.9	591.4
20°	574.7	574.7	575.2	582.8	582.8
22.5°	561.5	562.0	563.8	572.9	572.3
25°	548.4	549.4	552.9	560.9	562.0
27.5°	532.3	535.2	539.1	548.8	550.0
30°	517.3	519.1	525.3	534.6	536.8
32.5°	499.6	503.0	509.9	520.2	523.1
35°	480.6	485.2	493.2	505.9	508.8
37.5°	461.7	465.8	476.7	489.7	495.0
40°	440.5	447.4	458.8	473.8	479.4
42.5°	419.8	426.7	442.3	457.7	462.9
45°	398.0	405.6	422.1	441.1	447.4
47.5°	373.9	382.6	403.8	423.8	430.7
50°	349.2	360.1	383.6	406.1	414.1
52.5°	323.5	337.2	364.2	387.7	395.3
55°	298.3	313.1	344.2	368.3	377.4
57.5°	272.5	288.6	323.5	351.0	356.2
60°	244.3	263.9	302.2	326.3	333.3
62.5°	216.9	239.2	280.4	303.4	309.2
65°	190.4	214.5	258.1	279.3	283.3
67.5°	161.7	190.4	233.4	253.0	254.0
70°	134.3	167.5	209.3	218.5	211.1
72.5°	107.3	142.8	181.3	173.7	167.5
75°	83.8	119.9	147.5	132.5	129.0
77.5°	62.0	98.1	105.5	97.5	91.2
80°	44.1	77.4	71.1	60.8	57.9
82.5°	30.3	48.8	39.0	30.3	26.4
85°	17.3	21.8	13.8	8.6	6.8
87.5°	7.4	5.2	2.9	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)