

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: P842822

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842822  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275670)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-25-S-UNV-B40  
Description: 1X4 2500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

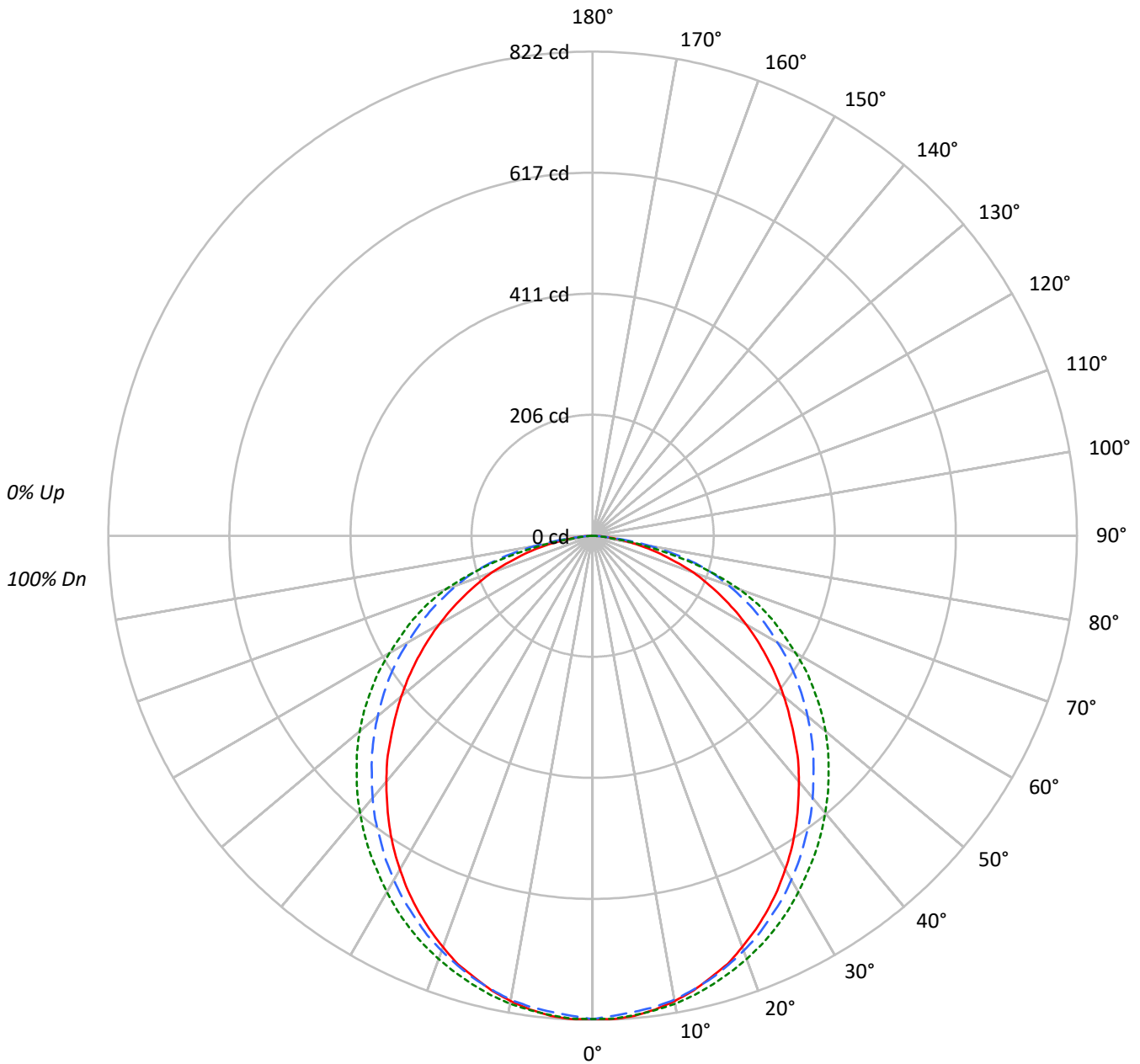
Lumens per Lamp: N/A  
Luminaire Lumens: 2298.0 lumens  
Efficiency: N/A  
Efficacy: 120.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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	94	91	89	90	88	86	84																			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70																			
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58																			
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50																			
5	76	63	54	47	74	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	35	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	28	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°	2316	2316	2316
5°	2318	2299	2315
10°	2299	2292	2312
15°	2268	2274	2304
20°	2232	2252	2296
25°	2186	2225	2289
30°	2131	2198	2277
35°	2073	2167	2269
40°	2007	2141	2263
45°	1933	2115	2261
50°	1861	2091	2266
55°	1783	2075	2260
60°	1699	2045	2245
65°	1598	2039	2245
70°	1505	2022	2181
75°	1304	1976	1864
80°	1055	1593	1242
85°	700	551	369



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.5	3.4
10°-20°	220.4	9.6
20°-30°	330.7	14.4
30°-40°	394.4	17.2
40°-50°	407.8	17.7
50°-60°	372.3	16.2
60°-70°	293.0	12.7
70°-80°	170.5	7.4
80°-90°	31.4	1.4
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°	628.6	27.4
0°-40°	1023.0	44.5
0°-60°	1803.1	78.5
0°-90°	2298.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2298.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	820	820	820	820	820	
5°	818	816	811	818	817	78
15°	776	777	778	788	788	219
25°	702	705	714	731	735	323
35°	602	610	629	653	658	376
45°	484	500	530	559	566	374
55°	362	382	422	452	459	324
65°	239	264	305	329	336	238
75°	120	148	181	178	171	127
85°	22	31	17	14	11	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	820.4	820.4	820.4	820.4	820.4
2.5°	821.5	819.2	815.7	821.5	820.4
5°	818.1	815.7	811.3	818.1	816.9
7.5°	811.3	808.9	806.7	813.5	812.4
10°	802.1	800.9	799.8	807.8	806.7
12.5°	790.8	790.8	789.6	798.7	798.7
15°	776.0	777.1	778.2	788.4	788.4
17.5°	762.3	761.2	764.5	776.0	777.1
20°	742.9	745.1	749.7	763.4	764.5
22.5°	723.5	725.8	733.8	747.5	750.8
25°	701.8	705.3	714.4	731.4	734.9
27.5°	679.1	683.7	696.1	714.4	717.7
30°	653.9	660.8	674.5	695.0	698.5
32.5°	628.9	635.8	652.8	673.3	678.0
35°	601.6	609.5	628.9	652.8	658.5
37.5°	573.1	583.3	606.2	630.1	636.9
40°	544.6	556.1	581.1	606.2	614.1
42.5°	516.1	527.6	554.8	583.3	591.4
45°	484.2	500.2	529.8	559.4	566.3
47.5°	453.5	470.6	503.6	533.2	542.4
50°	423.9	440.9	476.2	507.1	516.1
52.5°	393.1	411.3	448.8	480.8	488.8
55°	362.3	381.7	421.6	452.3	459.2
57.5°	331.6	352.1	393.1	422.7	430.7
60°	300.9	322.5	362.3	391.9	397.6
62.5°	270.0	292.8	333.8	360.1	365.8
65°	239.3	264.3	305.3	329.3	336.2
67.5°	209.7	234.7	274.6	297.4	303.1
70°	182.3	205.1	245.0	262.1	264.3
72.5°	148.1	176.6	215.3	224.5	218.8
75°	119.6	148.1	181.2	177.7	170.9
77.5°	91.2	119.6	141.3	129.8	120.8
80°	64.9	93.4	98.0	80.8	76.4
82.5°	42.2	64.9	54.7	42.2	34.2
85°	21.6	30.7	17.0	13.7	11.4
87.5°	6.8	4.6	2.2	2.2	1.1
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)