

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: P842846

Luminaire Tested: **14CZ2-35-HRP-UNV-B40**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842846  
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: 14CZ2-35-HRP-UNV-B40  
Description: 1X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND HRP LENS

Light Source: -  
Ballast/Driver: -

**Summary**

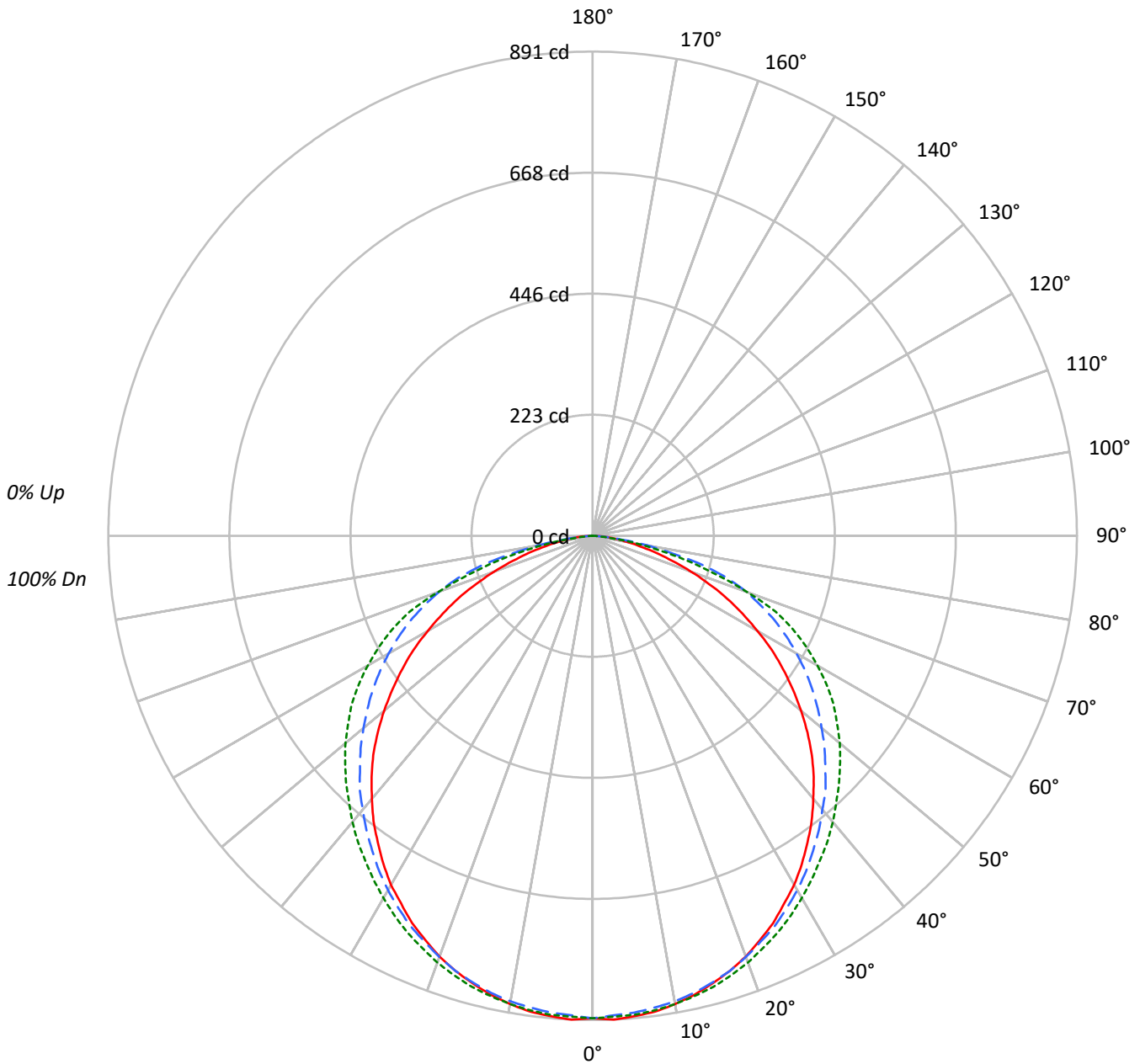
Lumens per Lamp: N/A  
Luminaire Lumens: 2615.0 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 28  
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°	2507	2507	2507
5°	2514	2495	2507
10°	2508	2494	2508
15°	2492	2487	2511
20°	2475	2477	2510
25°	2449	2469	2510
30°	2417	2455	2508
35°	2374	2437	2513
40°	2327	2424	2533
45°	2278	2416	2560
50°	2199	2415	2607
55°	2104	2428	2663
60°	1977	2446	2697
65°	1823	2471	2713
70°	1589	2477	2497
75°	1310	2306	2018
80°	1029	1658	1349
85°	803	641	317



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.1	3.2
10°-20°	241.2	9.2
20°-30°	366.4	14.0
30°-40°	443.9	17.0
40°-50°	467.8	17.9
50°-60°	436.7	16.7
60°-70°	349.0	13.3
70°-80°	192.0	7.3
80°-90°	33.9	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°	691.7	26.5
0°-40°	1135.6	43.4
0°-60°	2040.1	78.0
0°-90°	2615.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2615.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	888	888	888	888	888	
5°	887	885	881	886	885	84
15°	853	853	851	859	859	241
25°	786	788	793	804	806	362
35°	689	696	707	725	729	431
45°	571	581	605	632	641	439
55°	428	449	493	528	541	382
65°	273	308	370	400	406	269
75°	120	172	211	190	185	129
85°	25	31	20	12	10	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	888.0	888.0	888.0	888.0	888.0
2.5°	891.3	888.8	883.2	888.0	885.7
5°	887.3	884.8	880.7	886.5	884.8
7.5°	883.2	879.8	875.7	882.3	880.7
10°	874.9	872.4	870.1	875.7	874.9
12.5°	865.1	864.2	861.7	868.4	867.6
15°	852.8	852.8	851.1	859.2	859.2
17.5°	839.5	838.6	839.5	848.6	847.8
20°	823.9	823.9	824.7	835.5	835.5
22.5°	804.9	805.8	808.3	821.4	820.5
25°	786.2	787.7	792.7	804.1	805.8
27.5°	763.1	767.3	772.9	786.8	788.5
30°	741.7	744.2	753.1	766.4	769.6
32.5°	716.3	721.1	731.1	745.8	750.0
35°	689.0	695.7	707.1	725.2	729.4
37.5°	662.0	667.8	683.4	702.1	709.6
40°	631.6	641.4	657.8	679.2	687.4
42.5°	601.8	611.8	634.1	656.1	663.6
45°	570.6	581.4	605.2	632.4	641.4
47.5°	536.1	548.6	578.9	607.7	617.4
50°	500.7	516.3	550.0	582.3	593.7
52.5°	463.9	483.4	522.1	555.8	566.7
55°	427.6	448.9	493.4	527.9	541.1
57.5°	390.6	413.7	463.9	503.2	510.7
60°	350.2	378.3	433.3	467.8	477.8
62.5°	310.9	342.9	402.0	434.9	443.3
65°	273.0	307.6	370.0	400.4	406.2
67.5°	231.8	273.0	334.6	362.7	364.2
70°	192.5	240.1	300.1	313.2	302.6
72.5°	153.8	204.8	259.9	249.1	240.1
75°	120.1	171.9	211.4	190.0	185.0
77.5°	88.9	140.7	151.3	139.8	130.7
80°	63.3	110.9	102.0	87.2	83.0
82.5°	43.5	69.9	56.0	43.5	37.9
85°	24.8	31.2	19.8	12.3	9.8
87.5°	10.6	7.5	4.2	3.3	3.3
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)