

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: P842847

Luminaire Tested: **14CZ2-35-HRP-UNV-B50**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842847  
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-B50  
Description: 1X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND HRP LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

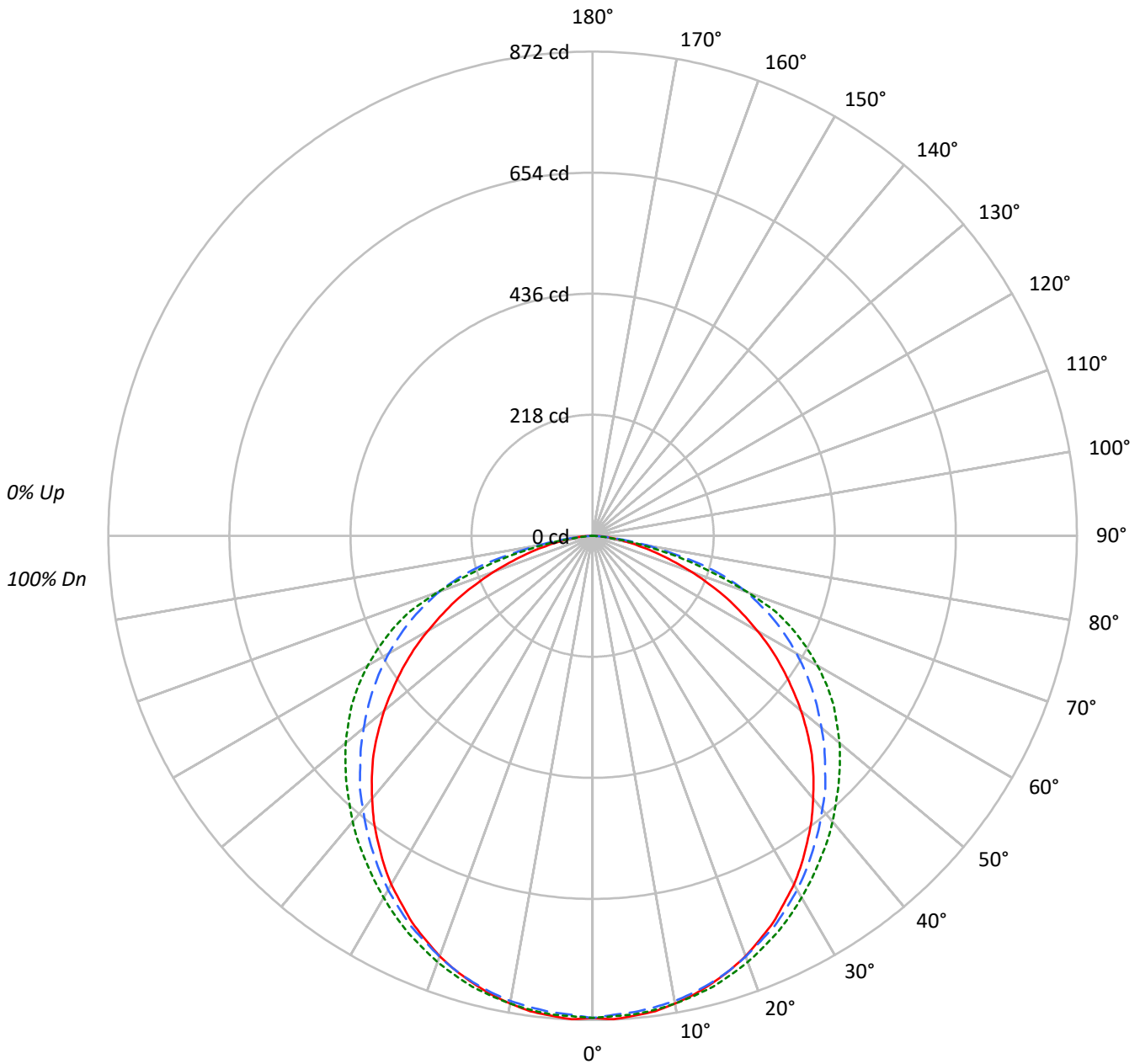
Lumens per Lamp: N/A  
Luminaire Lumens: 2557.0 lumens  
Efficiency: N/A  
Efficacy: 91.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	2451	2451	2451
5°	2459	2440	2452
10°	2452	2439	2452
15°	2437	2432	2455
20°	2420	2422	2454
25°	2394	2414	2454
30°	2364	2400	2453
35°	2321	2382	2458
40°	2276	2370	2477
45°	2227	2362	2503
50°	2150	2362	2549
55°	2058	2374	2604
60°	1934	2392	2638
65°	1783	2416	2653
70°	1553	2421	2442
75°	1280	2254	1973
80°	1006	1621	1320
85°	784	625	311



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.2	3.2
10°-20°	235.9	9.2
20°-30°	358.2	14.0
30°-40°	434.1	17.0
40°-50°	457.4	17.9
50°-60°	427.0	16.7
60°-70°	341.2	13.3
70°-80°	187.8	7.3
80°-90°	33.2	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°	676.3	26.5
0°-40°	1110.4	43.4
0°-60°	1994.8	78.0
0°-90°	2557.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2557.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	868	868	868	868	868	
5°	868	865	861	867	865	82
15°	834	834	832	840	840	235
25°	769	770	775	786	788	354
35°	674	680	691	709	713	422
45°	558	568	592	618	627	429
55°	418	439	482	516	529	373
65°	267	301	362	392	397	263
75°	117	168	207	186	181	126
85°	24	30	19	12	10	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	868.3	868.3	868.3	868.3	868.3
2.5°	871.5	869.1	863.6	868.3	866.0
5°	867.7	865.2	861.1	866.8	865.2
7.5°	863.6	860.3	856.3	862.8	861.1
10°	855.4	853.0	850.8	856.3	855.4
12.5°	845.9	845.1	842.6	849.1	848.3
15°	833.9	833.9	832.3	840.2	840.2
17.5°	820.9	820.0	820.9	829.8	829.0
20°	805.6	805.6	806.4	817.0	817.0
22.5°	787.1	787.9	790.3	803.2	802.3
25°	768.8	770.2	775.1	786.3	787.9
27.5°	746.2	750.2	755.7	769.4	771.0
30°	725.2	727.7	736.4	749.4	752.5
32.5°	700.4	705.1	714.8	729.3	733.4
35°	673.7	680.2	691.4	709.1	713.2
37.5°	647.3	653.0	668.2	686.6	693.9
40°	617.6	627.1	643.2	664.2	672.1
42.5°	588.5	598.2	620.0	641.6	648.9
45°	558.0	568.5	591.7	618.4	627.1
47.5°	524.2	536.4	566.1	594.2	603.7
50°	489.6	504.8	537.8	569.3	580.5
52.5°	453.6	472.7	510.5	543.5	554.1
55°	418.2	438.9	482.5	516.2	529.1
57.5°	381.9	404.5	453.6	492.0	499.4
60°	342.5	369.9	423.7	457.4	467.2
62.5°	304.0	335.3	393.1	425.3	433.4
65°	267.0	300.7	361.8	391.5	397.2
67.5°	226.7	267.0	327.2	354.7	356.1
70°	188.2	234.8	293.4	306.2	295.9
72.5°	150.4	200.2	254.2	243.6	234.8
75°	117.4	168.1	206.7	185.8	180.9
77.5°	86.9	137.6	147.9	136.7	127.8
80°	61.9	108.5	99.7	85.3	81.2
82.5°	42.5	68.4	54.7	42.5	37.0
85°	24.2	30.5	19.3	12.0	9.6
87.5°	10.4	7.3	4.1	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)