

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: P842850

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842850  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275838)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-35-RDP-UNV-B50  
Description: 1X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RDP LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

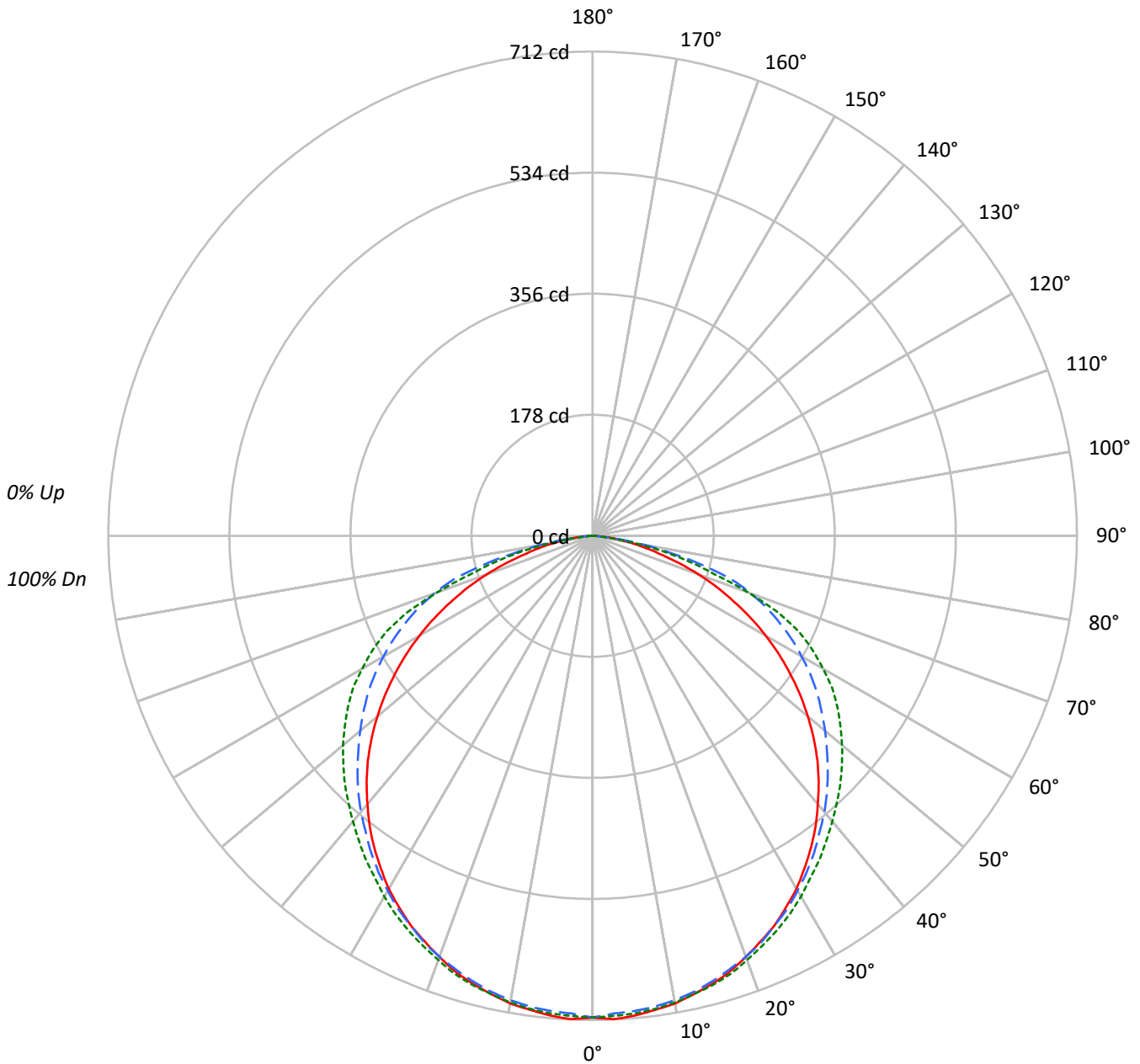
Lumens per Lamp: N/A  
Luminaire Lumens: 2115.0 lumens  
Efficiency: N/A  
Efficacy: 75.5 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): 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	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32																			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29																			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26																			
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2000	2000	2000
5°	2007	1988	1998
10°	2002	1988	1997
15°	1993	1983	1998
20°	1979	1979	1994
25°	1970	1970	1995
30°	1954	1964	1997
35°	1929	1958	2003
40°	1898	1953	2020
45°	1865	1951	2056
50°	1813	1958	2103
55°	1747	1983	2161
60°	1659	2004	2210
65°	1533	2029	2239
70°	1363	2044	2003
75°	1099	1837	1602
80°	858	1289	1047
85°	589	372	269



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.0	3.2
10°-20°	192.4	9.1
20°-30°	292.9	13.8
30°-40°	356.8	16.9
40°-50°	378.5	17.9
50°-60°	357.2	16.9
60°-70°	288.4	13.6
70°-80°	156.5	7.4
80°-90°	25.3	1.2
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°	552.3	26.1
0°-40°	909.1	43.0
0°-60°	1644.8	77.8
0°-90°	2115.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2115.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	708	708	708	708	708	
5°	708	707	702	707	705	67
15°	682	680	679	684	684	192
25°	632	631	632	639	641	291
35°	560	563	568	580	581	350
45°	467	474	489	507	515	360
55°	355	370	403	429	439	317
65°	230	258	304	329	335	227
75°	101	147	168	152	147	110
85°	18	20	12	10	8	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	708.4	708.4	708.4	708.4	708.4
2.5°	711.6	708.4	703.3	708.4	706.8
5°	708.4	706.8	701.7	706.8	705.1
7.5°	703.3	703.3	698.5	701.7	701.7
10°	698.5	696.8	693.6	698.5	696.8
12.5°	690.2	688.5	686.9	691.8	690.2
15°	681.9	680.2	678.6	683.7	683.7
17.5°	671.9	670.3	668.7	675.4	675.4
20°	658.8	658.8	658.8	665.5	663.8
22.5°	645.6	645.6	647.3	653.9	652.3
25°	632.5	630.9	632.5	639.0	640.6
27.5°	615.9	617.5	619.1	625.8	627.4
30°	599.5	601.1	602.7	611.0	612.6
32.5°	579.7	582.9	586.1	596.0	596.0
35°	559.8	563.1	568.1	579.7	581.3
37.5°	538.4	541.6	548.3	561.4	564.7
40°	515.1	520.1	530.1	543.2	548.3
42.5°	492.0	498.7	510.2	525.0	531.7
45°	467.3	473.8	488.8	507.0	515.1
47.5°	440.8	449.1	467.3	490.4	497.1
50°	412.9	424.4	445.9	470.6	478.9
52.5°	384.7	397.9	424.4	450.7	459.0
55°	355.0	369.8	403.0	429.3	439.2
57.5°	325.2	341.8	379.7	407.8	417.7
60°	293.9	313.7	355.0	383.1	391.4
62.5°	262.5	285.6	330.3	358.2	364.9
65°	229.5	257.6	303.8	328.7	335.2
67.5°	198.1	231.1	277.5	295.5	295.5
70°	165.2	201.4	247.7	252.6	242.7
72.5°	132.2	173.5	214.7	196.5	188.2
75°	100.8	146.9	168.4	152.0	146.9
77.5°	75.9	118.8	118.8	108.9	105.6
80°	52.8	90.9	79.3	69.4	64.4
82.5°	34.6	51.2	41.3	33.0	28.1
85°	18.2	19.8	11.5	9.9	8.3
87.5°	6.7	3.2	1.6	3.2	1.6
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)