

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: P842858

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842858  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275502)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-35-UNV-B40  
Description: 1X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RIBBED LENS  
  
Light Source: -  
Ballast/Driver: -

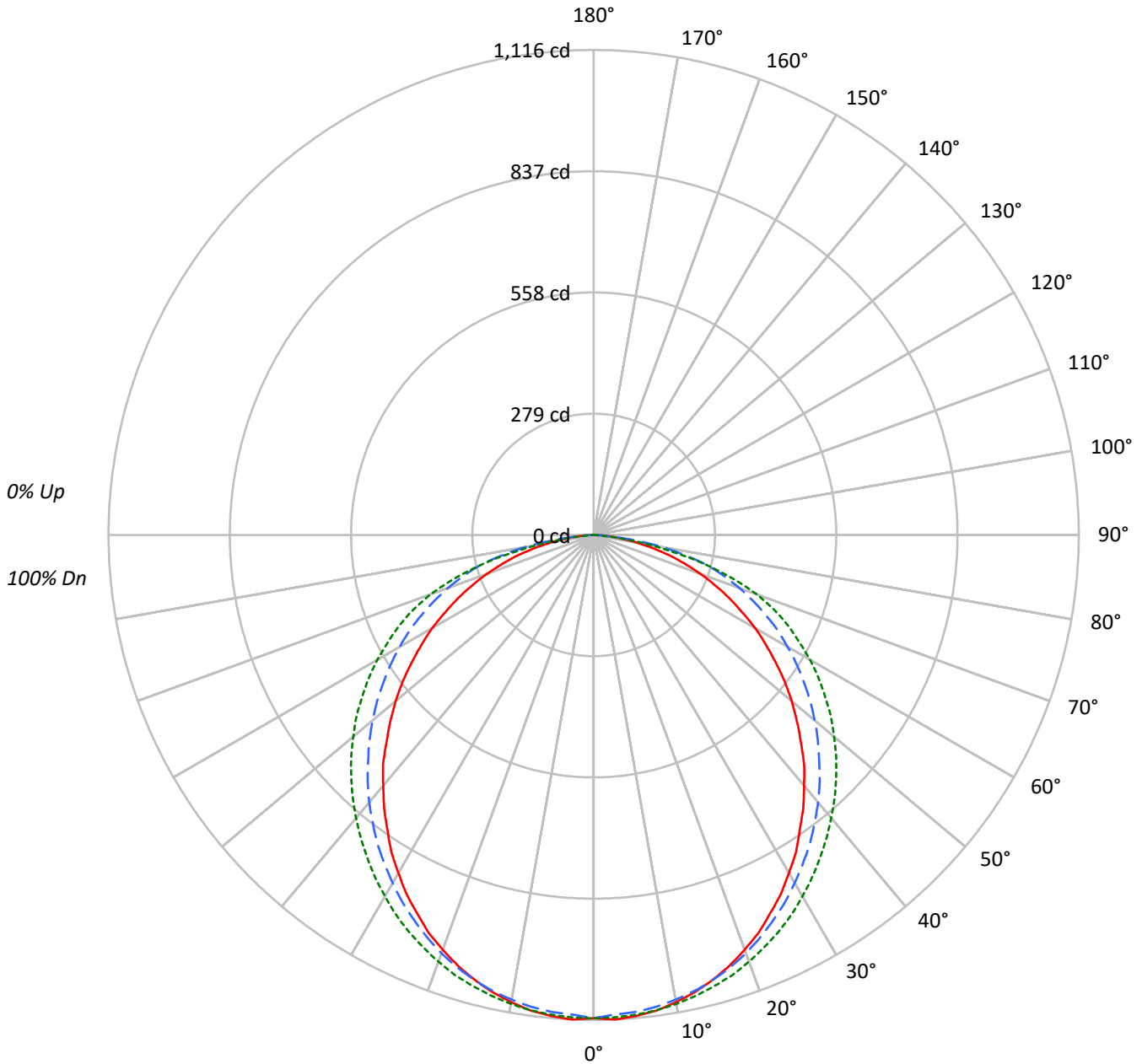
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3228.0 lumens  
Efficiency: N/A  
Efficacy: 115.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
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					20					
RC	80					70					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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83								
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69								
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58								
4	82	70	61	54	79	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	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32								
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	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	39	31	26	37	30	26	37	30	25	36	30	25	24								

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

	0°	45°	90°
0°	3139	3139	3139
5°	3149	3122	3141
10°	3130	3113	3142
15°	3096	3098	3140
20°	3051	3077	3139
25°	2993	3046	3136
30°	2928	3015	3130
35°	2850	2989	3127
40°	2774	2960	3132
45°	2689	2928	3149
50°	2611	2914	3170
55°	2511	2905	3199
60°	2422	2910	3243
65°	2298	2918	3293
70°	2157	2941	3290
75°	1953	2968	2976
80°	1604	2560	2116
85°	1189	1214	489



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.2	3.3
10°-20°	300.6	9.3
20°-30°	452.8	14.0
30°-40°	543.4	16.8
40°-50°	566.4	17.5
50°-60°	524.3	16.2
60°-70°	423.6	13.1
70°-80°	258.3	8.0
80°-90°	53.3	1.7
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°	858.7	26.6
0°-40°	1402.1	43.4
0°-60°	2492.8	77.2
0°-90°	3228.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3228.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1112	1112	1112	1112	1112	
5°	1111	1108	1102	1110	1108	105
15°	1060	1060	1060	1075	1075	299
25°	961	967	978	1003	1007	443
35°	827	840	867	899	908	518
45°	674	694	733	774	789	521
55°	510	537	590	636	650	457
65°	344	378	437	481	493	340
75°	179	219	272	276	273	188
85°	37	55	38	21	15	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1112.1	1112.1	1112.1	1112.1	1112.1
2.5°	1116.4	1112.9	1104.9	1112.9	1111.3
5°	1111.3	1108.5	1102.0	1109.9	1108.5
7.5°	1104.1	1101.2	1095.4	1104.9	1103.4
10°	1091.9	1090.5	1086.1	1097.0	1096.2
12.5°	1077.6	1076.8	1074.6	1086.9	1086.1
15°	1059.6	1060.2	1060.2	1074.6	1074.6
17.5°	1039.3	1040.7	1043.7	1059.6	1061.7
20°	1015.6	1018.5	1024.3	1042.3	1045.1
22.5°	991.2	993.4	1001.9	1023.5	1026.5
25°	960.9	966.6	978.1	1002.7	1007.0
27.5°	932.1	937.1	953.0	978.1	985.4
30°	898.3	906.2	925.0	952.4	960.3
32.5°	866.0	874.5	896.1	927.8	934.9
35°	827.1	840.0	867.3	899.1	907.6
37.5°	791.8	803.9	835.0	869.5	879.6
40°	752.8	768.1	803.3	840.0	850.1
42.5°	716.9	731.2	769.5	806.9	820.6
45°	673.7	694.0	733.4	774.4	788.9
47.5°	634.1	654.3	699.7	743.5	756.6
50°	594.5	616.1	663.6	709.0	721.9
52.5°	553.5	576.6	627.6	673.0	688.2
55°	510.3	537.0	590.3	636.3	650.0
57.5°	469.2	496.6	553.5	600.2	613.9
60°	429.0	457.2	515.4	560.0	574.5
62.5°	384.4	417.5	478.0	521.8	532.7
65°	344.0	377.9	436.9	480.7	493.0
67.5°	301.6	338.3	397.3	437.5	449.2
70°	261.4	299.4	356.3	393.7	398.7
72.5°	218.2	257.0	314.5	338.3	338.3
75°	179.1	218.8	272.1	276.4	272.9
77.5°	136.7	180.7	215.2	206.5	198.0
80°	98.7	141.9	157.5	141.9	130.2
82.5°	66.2	102.8	94.9	75.5	67.0
85°	36.7	54.7	37.5	20.8	15.1
87.5°	13.7	12.3	3.6	3.6	3.6
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)