

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: P731866

Luminaire Tested: **14CZ2-35-HRP-B2750-W2D-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731866  
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-B2750-W2D-2700K  
Description: 1X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND HRP LENS

Light Source: -  
Ballast/Driver: -

**Summary**

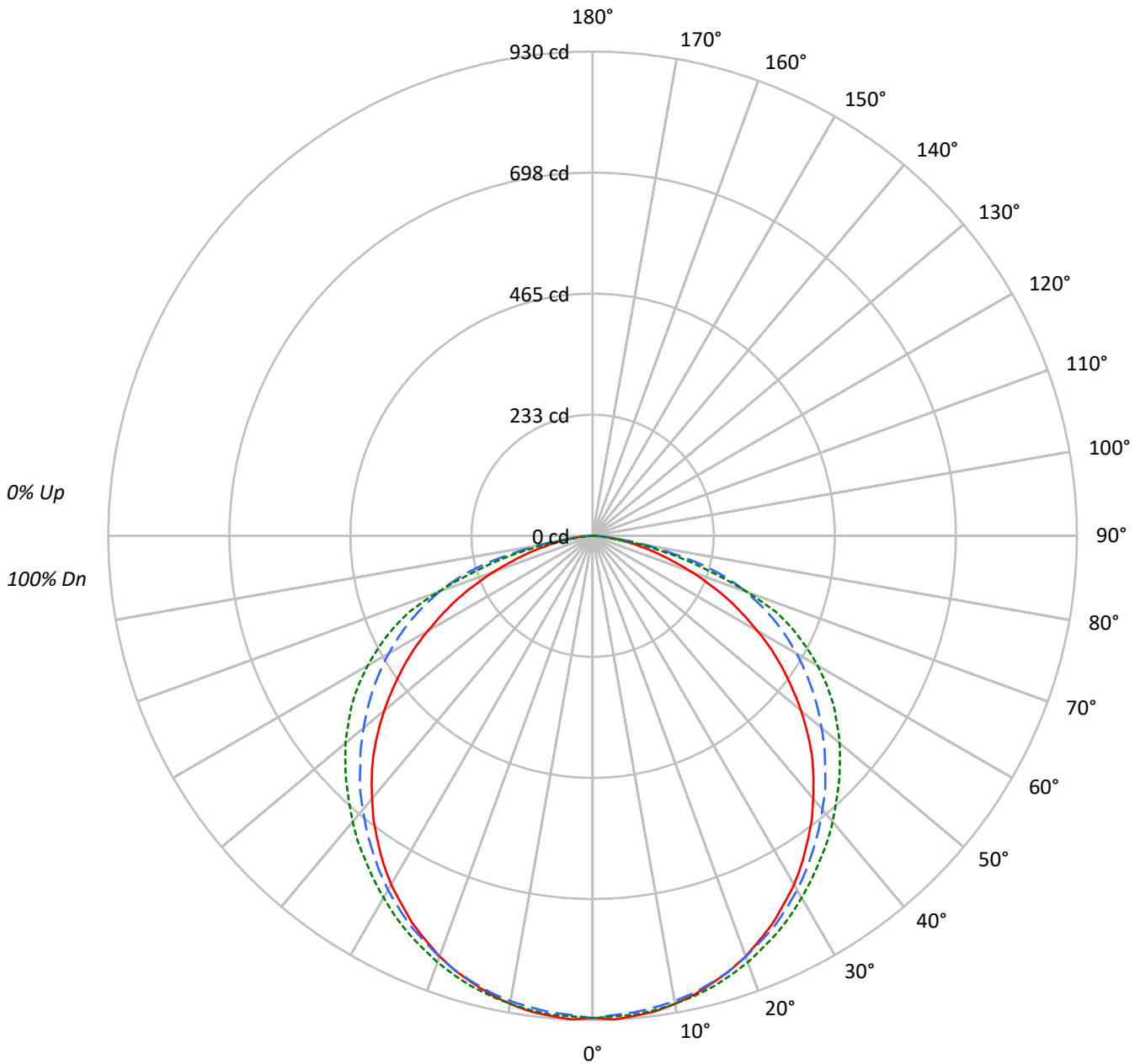
Lumens per Lamp: N/A  
Luminaire Lumens: 2728.0 lumens  
Efficiency: N/A  
Efficacy: 97.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	2615	2615	2615
5°	2623	2603	2616
10°	2616	2602	2616
15°	2600	2595	2620
20°	2582	2584	2618
25°	2554	2575	2618
30°	2522	2561	2617
35°	2477	2542	2622
40°	2428	2528	2642
45°	2376	2520	2671
50°	2294	2520	2720
55°	2195	2533	2778
60°	2063	2552	2814
65°	1902	2578	2831
70°	1657	2583	2605
75°	1367	2406	2105
80°	1073	1730	1408
85°	836	667	330



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.7	3.2
10°-20°	251.7	9.2
20°-30°	382.2	14.0
30°-40°	463.1	17.0
40°-50°	488.0	17.9
50°-60°	455.6	16.7
60°-70°	364.1	13.3
70°-80°	200.3	7.3
80°-90°	35.4	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°	721.6	26.5
0°-40°	1184.7	43.4
0°-60°	2128.2	78.0
0°-90°	2728.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2728.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	926	926	926	926	926	
5°	926	923	919	925	923	88
15°	890	890	888	896	896	251
25°	820	822	827	839	841	378
35°	719	726	738	757	761	450
45°	595	607	631	660	669	458
55°	446	468	515	551	564	398
65°	285	321	386	418	424	280
75°	125	179	221	198	193	135
85°	26	33	21	13	10	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	926.3	926.3	926.3	926.3	926.3
2.5°	929.8	927.2	921.3	926.3	923.9
5°	925.7	923.1	918.7	924.8	923.1
7.5°	921.3	917.9	913.5	920.5	918.7
10°	912.7	910.1	907.7	913.5	912.7
12.5°	902.5	901.6	899.0	905.9	905.1
15°	889.6	889.6	887.9	896.4	896.4
17.5°	875.8	874.9	875.8	885.3	884.4
20°	859.5	859.5	860.3	871.6	871.6
22.5°	839.7	840.6	843.2	856.9	856.0
25°	820.2	821.7	826.9	838.8	840.6
27.5°	796.1	800.4	806.3	820.8	822.6
30°	773.7	776.3	785.7	799.6	802.8
32.5°	747.2	752.2	762.6	778.1	782.4
35°	718.8	725.7	737.7	756.6	760.9
37.5°	690.6	696.6	712.9	732.5	740.3
40°	658.9	669.1	686.2	708.6	717.1
42.5°	627.8	638.3	661.5	684.5	692.3
45°	595.3	606.6	631.3	659.7	669.1
47.5°	559.2	572.3	604.0	633.9	644.1
50°	522.3	538.6	573.8	607.4	619.4
52.5°	483.9	504.3	544.7	579.9	591.1
55°	446.1	468.3	514.7	550.8	564.4
57.5°	407.5	431.6	483.9	524.9	532.7
60°	365.4	394.7	452.0	488.0	498.4
62.5°	324.3	357.8	419.4	453.7	462.4
65°	284.8	320.9	386.0	417.7	423.8
67.5°	241.8	284.8	349.1	378.4	379.9
70°	200.8	250.5	313.0	326.7	315.7
72.5°	160.4	213.6	271.1	259.9	250.5
75°	125.3	179.3	220.6	198.2	193.0
77.5°	92.7	146.8	157.8	145.9	136.3
80°	66.0	115.7	106.4	91.0	86.6
82.5°	45.4	72.9	58.4	45.4	39.5
85°	25.8	32.6	20.6	12.8	10.2
87.5°	11.1	7.8	4.3	3.5	3.5
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)