

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: P731891

Luminaire Tested: **14CZ2-39-HRP-B2750-W2D-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731891  
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: 14CZ2-39-HRP-B2750-W2D-2700K  
Description: 1X4 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND HRP LENS

Light Source: -  
Ballast/Driver: -

**Summary**

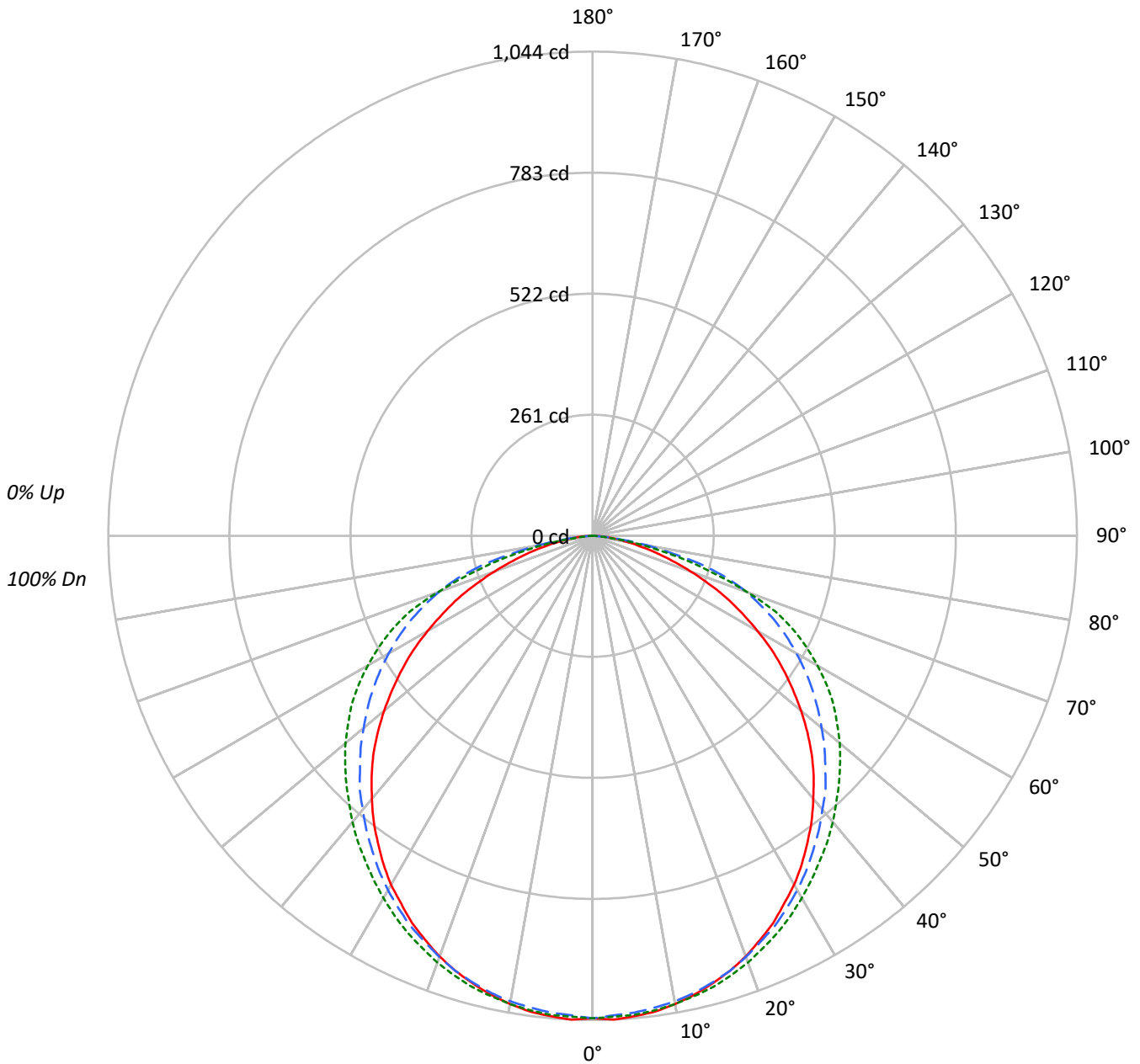
Lumens per Lamp: N/A  
Luminaire Lumens: 3064.0 lumens  
Efficiency: N/A  
Efficacy: 98.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 31  
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°	2937	2937	2937
5°	2946	2924	2938
10°	2938	2922	2938
15°	2920	2914	2942
20°	2900	2903	2941
25°	2869	2893	2940
30°	2832	2876	2939
35°	2782	2855	2945
40°	2727	2840	2968
45°	2669	2831	3000
50°	2576	2830	3055
55°	2466	2845	3120
60°	2317	2866	3160
65°	2137	2895	3179
70°	1861	2902	2926
75°	1534	2701	2364
80°	1205	1942	1582
85°	939	751	372



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.5	3.2
10°-20°	282.7	9.2
20°-30°	429.2	14.0
30°-40°	520.1	17.0
40°-50°	548.1	17.9
50°-60°	511.7	16.7
60°-70°	408.9	13.3
70°-80°	225.0	7.3
80°-90°	39.7	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°	810.4	26.4
0°-40°	1330.6	43.4
0°-60°	2390.3	78.0
0°-90°	3064.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3064.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1040	1040	1040	1040	1040	
5°	1040	1037	1032	1039	1037	99
15°	999	999	997	1007	1007	282
25°	921	923	929	942	944	424
35°	807	815	828	850	855	505
45°	669	681	709	741	752	514
55°	501	526	578	619	634	447
65°	320	360	434	469	476	315
75°	141	201	248	223	217	151
85°	29	37	23	14	12	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1040.4	1040.4	1040.4	1040.4	1040.4
2.5°	1044.3	1041.4	1034.8	1040.4	1037.7
5°	1039.7	1036.8	1031.9	1038.7	1036.8
7.5°	1034.8	1030.9	1026.0	1033.8	1031.9
10°	1025.1	1022.1	1019.5	1026.0	1025.1
12.5°	1013.6	1012.6	1009.7	1017.5	1016.5
15°	999.2	999.2	997.3	1006.8	1006.8
17.5°	983.6	982.6	983.6	994.3	993.4
20°	965.3	965.3	966.3	979.0	979.0
22.5°	943.1	944.1	947.0	962.4	961.4
25°	921.2	922.9	928.8	942.2	944.1
27.5°	894.1	899.0	905.6	921.9	923.9
30°	869.0	871.9	882.4	898.0	901.7
32.5°	839.3	844.9	856.6	873.9	878.8
35°	807.3	815.1	828.5	849.8	854.6
37.5°	775.6	782.5	800.7	822.7	831.5
40°	740.0	751.5	770.7	795.9	805.4
42.5°	705.2	716.9	743.0	768.8	777.6
45°	668.6	681.3	709.1	741.0	751.5
47.5°	628.1	642.7	678.3	712.0	723.4
50°	586.7	604.9	644.4	682.2	695.6
52.5°	543.5	566.4	611.8	651.3	664.0
55°	501.1	525.9	578.1	618.6	634.0
57.5°	457.7	484.7	543.5	589.6	598.4
60°	410.4	443.3	507.7	548.1	559.8
62.5°	364.3	401.8	471.1	509.6	519.4
65°	319.9	360.4	433.5	469.1	476.0
67.5°	271.6	319.9	392.1	425.0	426.7
70°	225.5	281.4	351.6	367.0	354.5
72.5°	180.2	239.9	304.5	291.9	281.4
75°	140.7	201.4	247.7	222.6	216.8
77.5°	104.1	164.8	177.3	163.9	153.1
80°	74.1	130.0	119.5	102.2	97.3
82.5°	51.0	81.9	65.6	51.0	44.4
85°	29.0	36.6	23.2	14.4	11.5
87.5°	12.4	8.8	4.9	3.9	3.9
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)