

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: P842831

Luminaire Tested: **14CZ2-29-HRP-UNV-B40**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842831  
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: 14CZ2-29-HRP-UNV-B40  
Description: 1X4 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND HRP LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

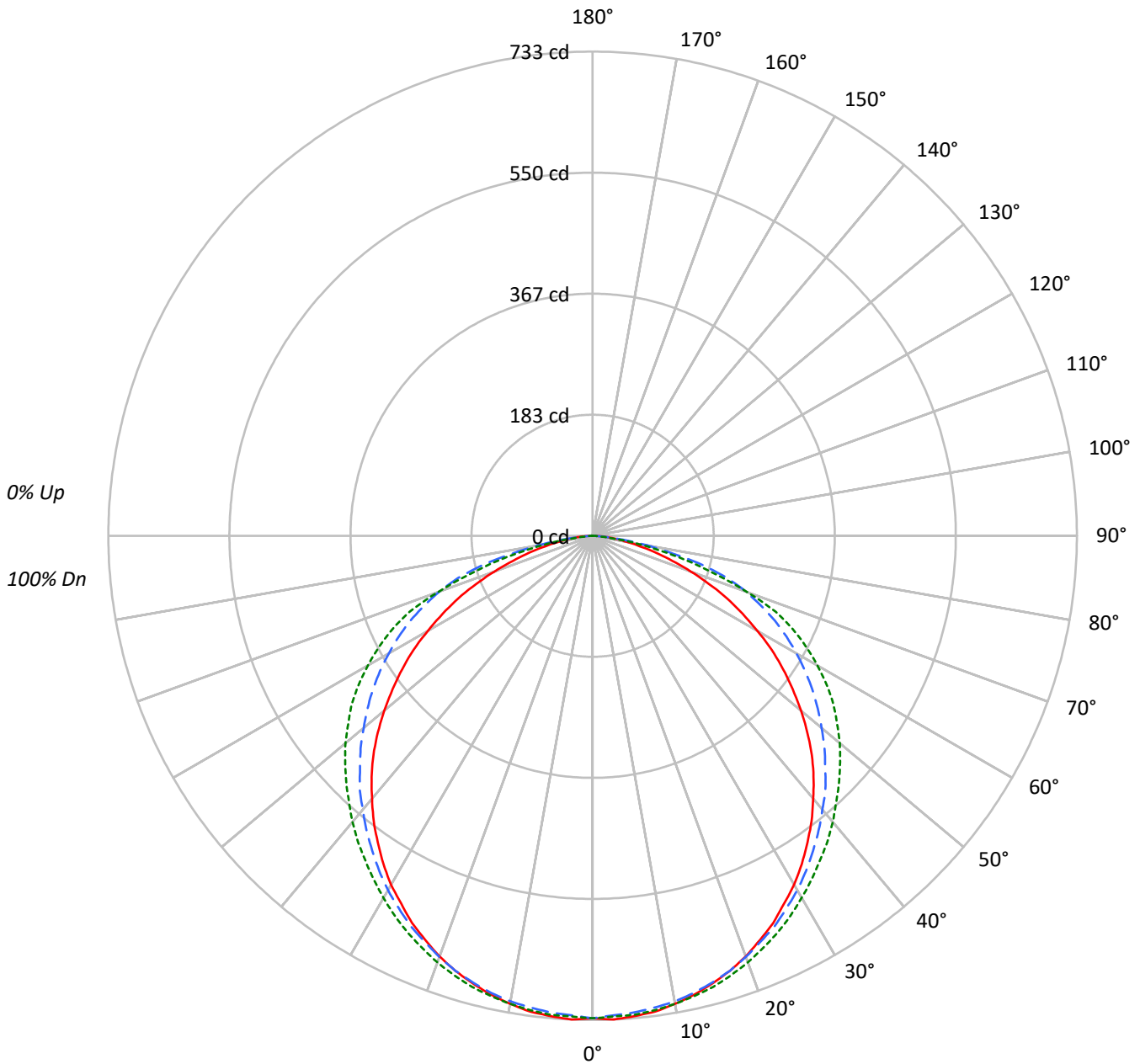
Lumens per Lamp: N/A  
Luminaire Lumens: 2151.0 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 23  
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

TEST NUMBER: P842831

CATALOG NUMBER: 14CZ2-29-HRP-UNV-B40

### 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°	2062	2062	2062
5°	2068	2053	2062
10°	2063	2051	2063
15°	2050	2046	2065
20°	2036	2038	2065
25°	2014	2031	2064
30°	1989	2019	2063
35°	1953	2004	2068
40°	1914	1994	2083
45°	1874	1987	2106
50°	1808	1987	2145
55°	1731	1998	2190
60°	1626	2012	2219
65°	1500	2032	2231
70°	1306	2037	2054
75°	1078	1897	1660
80°	845	1364	1110
85°	661	528	259



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.2	3.2
10°-20°	198.4	9.2
20°-30°	301.3	14.0
30°-40°	365.1	17.0
40°-50°	384.8	17.9
50°-60°	359.2	16.7
60°-70°	287.1	13.3
70°-80°	158.0	7.3
80°-90°	27.9	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°	568.9	26.5
0°-40°	934.1	43.4
0°-60°	1678.1	78.0
0°-90°	2151.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2151.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	730	730	730	730	730	
5°	730	728	724	729	728	69
15°	702	702	700	707	707	198
25°	647	648	652	661	663	298
35°	567	572	582	596	600	355
45°	469	478	498	520	528	361
55°	352	369	406	434	445	314
65°	225	253	304	329	334	221
75°	99	141	174	156	152	106
85°	20	26	16	10	8	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	730.4	730.4	730.4	730.4	730.4
2.5°	733.1	731.1	726.5	730.4	728.5
5°	729.9	727.8	724.4	729.2	727.8
7.5°	726.5	723.7	720.3	725.8	724.4
10°	719.6	717.6	715.7	720.3	719.6
12.5°	711.6	710.9	708.8	714.3	713.6
15°	701.5	701.5	700.1	706.8	706.8
17.5°	690.5	689.8	690.5	698.1	697.4
20°	677.7	677.7	678.4	687.3	687.3
22.5°	662.1	662.8	664.8	675.6	674.9
25°	646.7	647.9	652.0	661.4	662.8
27.5°	627.7	631.1	635.7	647.2	648.6
30°	610.1	612.1	619.5	630.4	633.0
32.5°	589.2	593.1	601.3	613.5	616.9
35°	566.8	572.2	581.7	596.5	600.0
37.5°	544.5	549.3	562.1	577.5	583.7
40°	519.5	527.6	541.1	558.7	565.4
42.5°	495.0	503.3	521.6	539.7	545.9
45°	469.4	478.3	497.8	520.2	527.6
47.5°	440.9	451.2	476.2	499.8	507.9
50°	411.8	424.7	452.4	478.9	488.4
52.5°	381.5	397.6	429.5	457.2	466.1
55°	351.8	369.2	405.9	434.3	445.1
57.5°	321.3	340.3	381.5	413.9	420.1
60°	288.1	311.2	356.4	384.8	393.0
62.5°	255.7	282.1	330.7	357.8	364.6
65°	224.6	253.0	304.3	329.3	334.1
67.5°	190.7	224.6	275.2	298.4	299.6
70°	158.3	197.5	246.8	257.6	248.9
72.5°	126.5	168.4	213.8	204.9	197.5
75°	98.8	141.4	173.9	156.3	152.2
77.5°	73.1	115.7	124.4	115.0	107.5
80°	52.0	91.2	83.9	71.7	68.3
82.5°	35.8	57.5	46.0	35.8	31.2
85°	20.4	25.7	16.3	10.1	8.0
87.5°	8.7	6.2	3.4	2.7	2.7
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)