

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: P842931

Luminaire Tested: **22CZ2-29HE-SQR-UNV-B50**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842931  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387672)  
Test Lab: INNOVATIONS CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-29HE-SQR-UNV-B50  
Description: 2X2 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

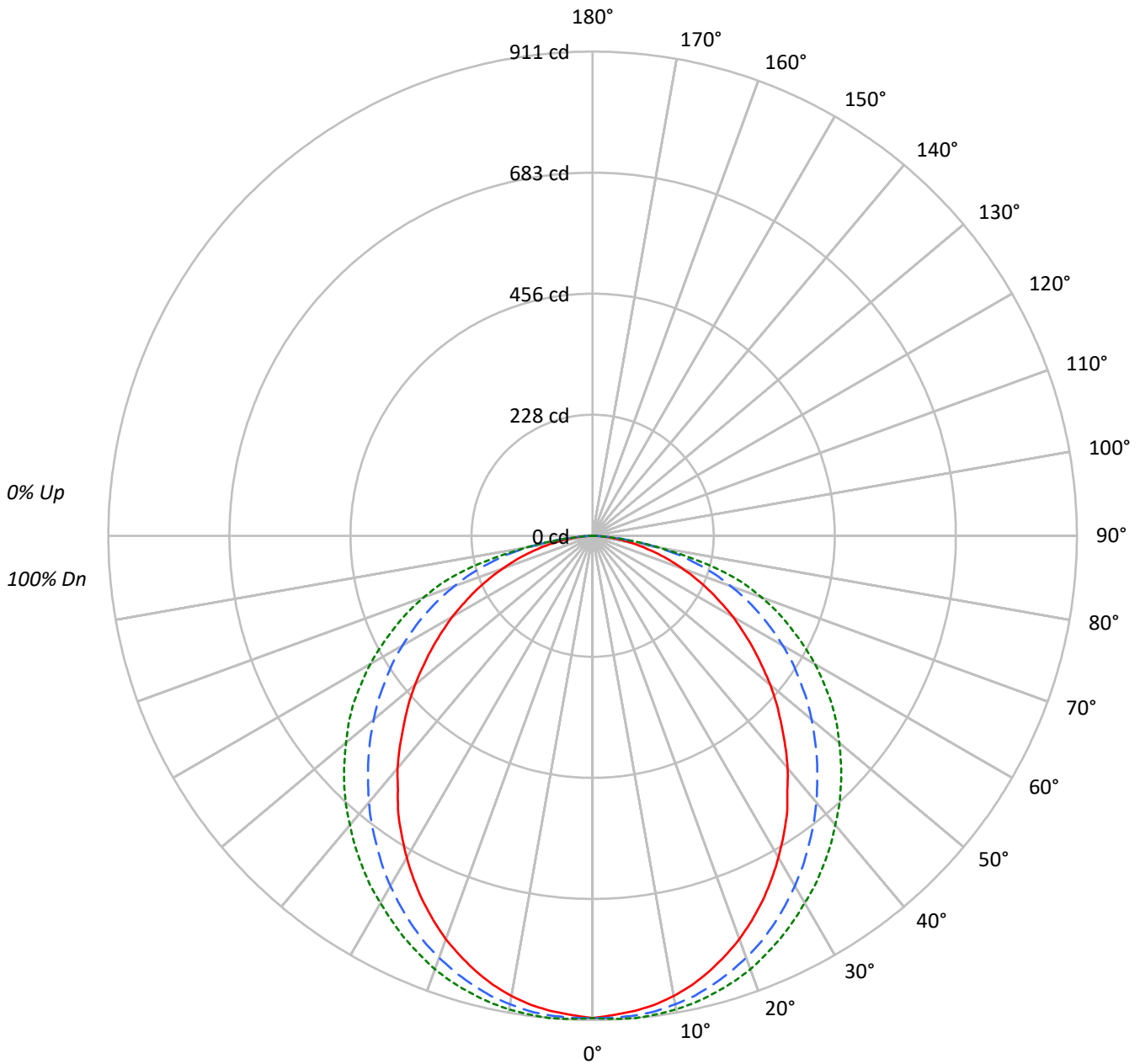
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2598.0 lumens  
Efficiency: N/A  
Efficacy: 103.9 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 25  
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	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83																			
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	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	43																			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37																			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26																			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24																			

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

	0°	45°	90°
0°	2575	2575	2575
5°	2557	2581	2595
10°	2533	2579	2608
15°	2492	2568	2615
20°	2439	2551	2621
25°	2370	2525	2617
30°	2291	2493	2614
35°	2208	2456	2622
40°	2115	2425	2631
45°	2014	2395	2652
50°	1927	2373	2673
55°	1824	2354	2715
60°	1729	2344	2743
65°	1615	2326	2765
70°	1484	2291	2803
75°	1339	2231	2704
80°	1150	1974	2036
85°	925	1166	925



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.0	3.3
10°-20°	246.0	9.5
20°-30°	369.5	14.2
30°-40°	440.6	17.0
40°-50°	455.6	17.5
50°-60°	418.8	16.1
60°-70°	333.5	12.8
70°-80°	203.7	7.8
80°-90°	44.3	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°	701.5	27.0
0°-40°	1142.1	44.0
0°-60°	2016.5	77.6
0°-90°	2598.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2598.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	908	908	908	908	908	
5°	898	900	906	910	911	85
15°	848	858	874	887	890	239
25°	757	776	806	829	836	348
35°	638	665	709	746	757	398
45°	502	538	597	645	661	388
55°	369	409	476	530	549	330
65°	240	281	346	395	412	238
75°	122	158	204	239	247	130
85°	28	34	36	31	28	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	907.5	907.5	907.5	907.5	907.5
2.5°	902.5	903.8	907.5	909.9	909.9
5°	897.6	900.1	906.3	909.9	911.2
7.5°	890.2	894.0	902.5	907.5	908.8
10°	879.2	884.1	895.1	902.5	905.0
12.5°	865.5	872.9	886.6	896.5	898.9
15°	848.3	858.1	874.3	886.6	890.2
17.5°	828.6	840.9	860.6	875.4	880.3
20°	807.7	820.0	844.7	861.9	868.0
22.5°	783.0	799.0	827.4	847.1	852.1
25°	757.0	775.6	806.4	828.6	836.0
27.5°	728.8	751.0	784.2	811.3	817.5
30°	699.2	722.5	760.8	790.4	797.8
32.5°	668.3	695.4	736.2	769.4	779.2
35°	637.5	664.7	709.0	746.0	757.0
37.5°	601.7	633.7	683.1	721.4	734.9
40°	570.9	601.7	654.8	696.7	710.2
42.5°	536.4	569.6	625.2	670.7	686.8
45°	501.9	537.6	596.8	644.9	660.9
47.5°	469.8	505.5	567.2	617.8	633.7
50°	436.5	473.5	537.6	589.4	605.5
52.5°	400.8	441.4	508.0	559.8	578.3
55°	368.7	409.3	475.9	530.2	548.8
57.5°	335.4	377.3	446.3	498.1	515.4
60°	304.6	345.2	413.1	463.6	483.3
62.5°	271.3	313.2	379.8	429.1	447.7
65°	240.5	281.1	346.5	394.6	411.8
67.5°	209.6	250.4	312.0	357.6	377.3
70°	178.9	219.5	276.2	320.6	337.8
72.5°	151.7	187.4	241.7	282.4	298.4
75°	122.1	157.8	203.5	239.2	246.6
77.5°	95.0	127.1	165.2	181.3	183.8
80°	70.4	95.0	120.8	124.6	124.6
82.5°	46.9	65.4	75.3	76.4	75.3
85°	28.4	34.5	35.8	30.9	28.4
87.5°	9.9	9.9	6.2	3.8	1.3
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)