

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: P842922

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842922  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P294823)  
Test Lab: INNOVATIONS CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-29HE-HRP-UNV-B50  
Description: 2X2 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND HRP LENS

Light Source: -  
Ballast/Driver: -

**Summary**

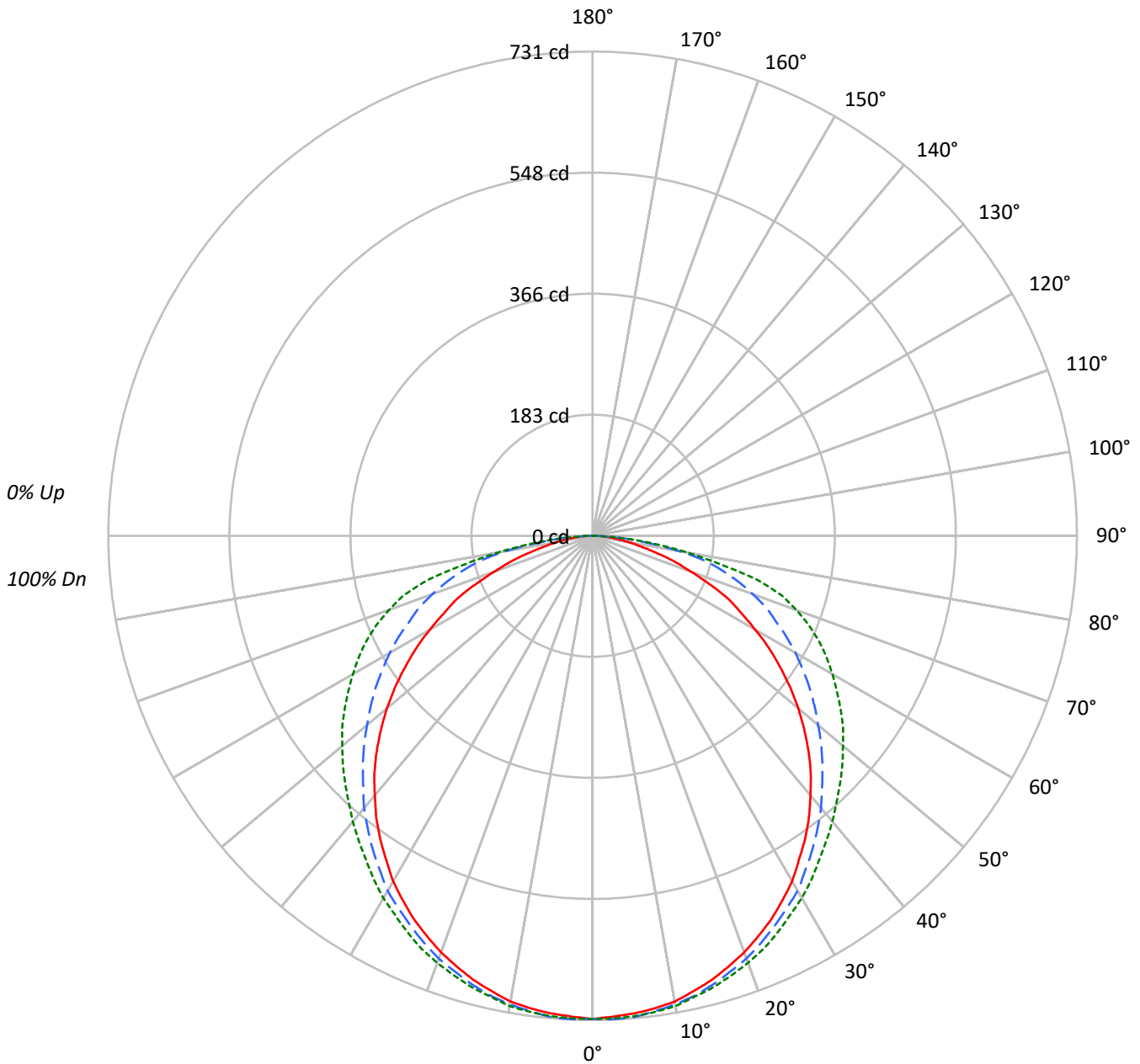
Lumens per Lamp: N/A  
Luminaire Lumens: 2215.0 lumens  
Efficiency: N/A  
Efficacy: 88.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (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	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	87	84	82																			
2	98	89	82	76	95	87	80	75	84	78	73	80	75	71	77	73	70	68																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56																			
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36																			
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31																			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28																			
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	31	27	25																			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23																			

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

	0°	45°	90°
0°	2070	2070	2070
5°	2062	2078	2074
10°	2057	2070	2077
15°	2040	2061	2073
20°	2021	2051	2072
25°	1999	2034	2069
30°	1973	2028	2069
35°	1936	2004	2067
40°	1894	1987	2086
45°	1851	1968	2120
50°	1789	1962	2178
55°	1708	1977	2260
60°	1610	2006	2371
65°	1520	2045	2533
70°	1298	2133	2712
75°	1088	2221	2819
80°	891	2146	2351
85°	775	1592	1726



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.1	3.1
10°-20°	197.7	8.9
20°-30°	299.7	13.5
30°-40°	361.9	16.3
40°-50°	380.2	17.2
50°-60°	357.8	16.2
60°-70°	298.3	13.5
70°-80°	197.6	8.9
80°-90°	52.7	2.4
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°	566.5	25.6
0°-40°	928.4	41.9
0°-60°	1666.4	75.2
0°-90°	2215.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2215.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	729	729	729	729	729	
5°	724	725	729	729	728	69
15°	694	697	702	704	706	196
25°	638	643	650	658	661	294
35°	559	564	578	591	597	349
45°	461	468	490	516	528	355
55°	345	360	400	440	457	309
65°	226	246	305	355	377	220
75°	99	138	203	244	257	108
85°	24	36	49	53	53	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	729.4	729.4	729.4	729.4	729.4
2.5°	726.6	728.0	730.8	730.8	729.4
5°	723.8	725.1	729.4	729.4	728.0
7.5°	719.6	721.0	723.8	726.6	725.1
10°	714.0	715.3	718.3	721.0	721.0
12.5°	704.2	705.5	711.2	712.6	712.6
15°	694.4	697.2	701.5	704.2	705.5
17.5°	681.9	684.7	690.2	695.9	695.9
20°	669.3	672.1	679.1	684.7	686.1
22.5°	654.0	658.1	665.1	672.1	674.9
25°	638.5	642.7	649.7	658.1	660.8
27.5°	620.4	624.6	634.4	644.2	645.5
30°	602.3	606.4	618.9	627.4	631.6
32.5°	579.9	585.5	598.0	610.6	614.8
35°	558.9	564.4	578.5	591.0	596.6
37.5°	536.5	542.1	557.6	572.9	579.9
40°	511.4	518.4	536.5	553.3	563.1
42.5°	487.6	494.6	512.7	535.2	544.9
45°	461.2	468.0	490.4	515.7	528.2
47.5°	433.1	441.6	468.0	498.9	511.4
50°	405.2	415.0	444.4	479.3	493.3
52.5°	375.9	388.4	422.0	459.7	476.5
55°	345.2	360.5	399.7	440.1	456.9
57.5°	315.8	329.7	375.9	419.2	437.4
60°	283.7	301.8	353.5	398.2	417.8
62.5°	252.9	272.4	329.7	377.3	398.2
65°	226.4	245.8	304.6	355.0	377.3
67.5°	191.4	217.9	283.7	331.2	353.5
70°	156.4	192.8	257.1	306.0	326.9
72.5°	130.0	164.9	230.5	279.4	299.0
75°	99.2	138.3	202.6	244.5	257.1
77.5°	74.1	114.5	173.2	194.3	195.6
80°	54.5	88.1	131.3	138.3	143.9
82.5°	37.7	61.5	85.2	93.6	96.4
85°	23.8	36.4	48.9	53.0	53.0
87.5°	12.6	14.0	16.8	16.8	16.8
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)