

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: P731841

Luminaire Tested: **14CZ2-29-HRP-B2750-W2D-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731841  
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-B2750-W2D-2700K  
Description: 1X4 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND HRP LENS

Light Source: -  
Ballast/Driver: -

**Summary**

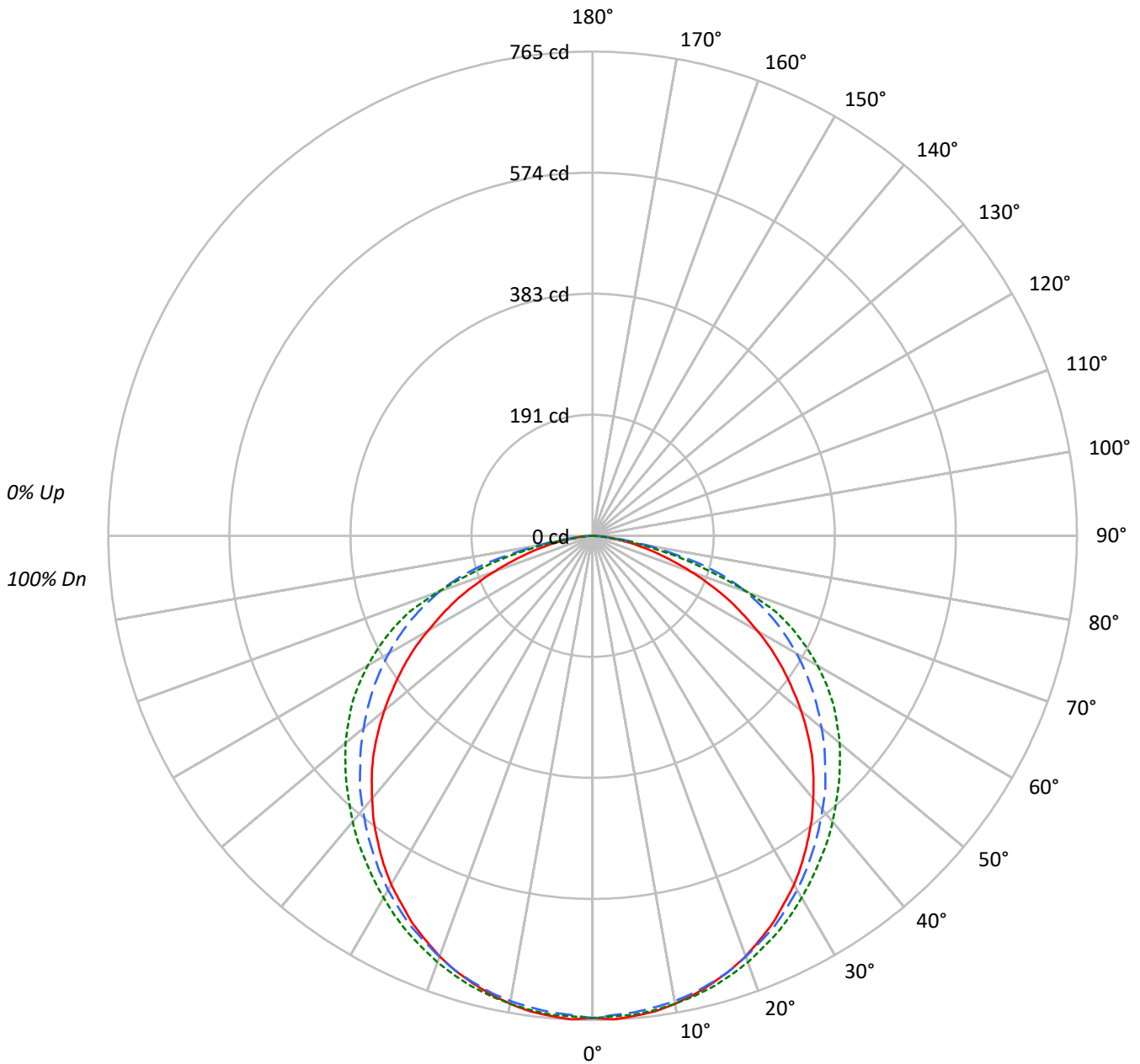
Lumens per Lamp: N/A  
Luminaire Lumens: 2244.0 lumens  
Efficiency: N/A  
Efficacy: 97.6 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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

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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°	2151	2151	2151
5°	2157	2141	2151
10°	2152	2140	2152
15°	2139	2134	2155
20°	2124	2126	2154
25°	2101	2118	2153
30°	2074	2107	2152
35°	2038	2091	2157
40°	1997	2080	2173
45°	1955	2073	2197
50°	1887	2073	2237
55°	1806	2084	2285
60°	1696	2099	2315
65°	1565	2121	2328
70°	1363	2125	2142
75°	1123	1978	1732
80°	883	1422	1159
85°	690	551	272



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.1	3.2
10°-20°	207.0	9.2
20°-30°	314.4	14.0
30°-40°	380.9	17.0
40°-50°	401.4	17.9
50°-60°	374.7	16.7
60°-70°	299.5	13.3
70°-80°	164.8	7.3
80°-90°	29.1	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°	593.5	26.4
0°-40°	974.5	43.4
0°-60°	1750.6	78.0
0°-90°	2244.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2244.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	762	762	762	762	762	
5°	761	759	756	761	759	72
15°	732	732	730	737	737	207
25°	675	676	680	690	691	311
35°	591	597	607	622	626	370
45°	490	499	519	543	550	377
55°	367	385	423	453	464	328
65°	234	264	318	344	349	231
75°	103	148	181	163	159	111
85°	21	27	17	10	8	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	762.0	762.0	762.0	762.0	762.0
2.5°	764.8	762.7	757.9	762.0	760.0
5°	761.4	759.3	755.7	760.7	759.3
7.5°	757.9	755.0	751.4	757.2	755.7
10°	750.7	748.6	746.6	751.4	750.7
12.5°	742.3	741.6	739.5	745.2	744.5
15°	731.8	731.8	730.4	737.3	737.3
17.5°	720.4	719.7	720.4	728.2	727.5
20°	707.0	707.0	707.7	717.0	717.0
22.5°	690.7	691.4	693.6	704.8	704.1
25°	674.7	675.9	680.2	690.0	691.4
27.5°	654.8	658.4	663.2	675.2	676.6
30°	636.4	638.6	646.3	657.7	660.4
32.5°	614.7	618.8	627.3	640.0	643.6
35°	591.3	597.0	606.8	622.3	625.9
37.5°	568.1	573.1	586.4	602.5	608.9
40°	542.0	550.4	564.5	582.9	589.8
42.5°	516.4	525.0	544.1	563.1	569.5
45°	489.7	498.9	519.3	542.7	550.4
47.5°	460.0	470.7	496.8	521.4	529.8
50°	429.7	443.0	472.0	499.7	509.5
52.5°	398.0	414.8	448.0	477.0	486.3
55°	367.0	385.2	423.4	453.0	464.3
57.5°	335.2	355.0	398.0	431.8	438.2
60°	300.5	324.7	371.8	401.4	410.0
62.5°	266.8	294.3	345.0	373.2	380.4
65°	234.3	263.9	317.5	343.6	348.6
67.5°	198.9	234.3	287.2	311.3	312.5
70°	165.2	206.1	257.5	268.8	259.6
72.5°	132.0	175.7	223.0	213.8	206.1
75°	103.0	147.5	181.4	163.0	158.8
77.5°	76.3	120.7	129.8	120.0	112.1
80°	54.3	95.2	87.5	74.8	71.3
82.5°	37.3	60.0	48.0	37.3	32.5
85°	21.3	26.8	17.0	10.5	8.4
87.5°	9.1	6.4	3.6	2.9	2.9
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)