

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: P842832

Luminaire Tested: **14CZ2-29-HRP-UNV-B50**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842832  
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-B50  
Description: 1X4 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND HRP LENS

Light Source: -  
Ballast/Driver: -

**Summary**

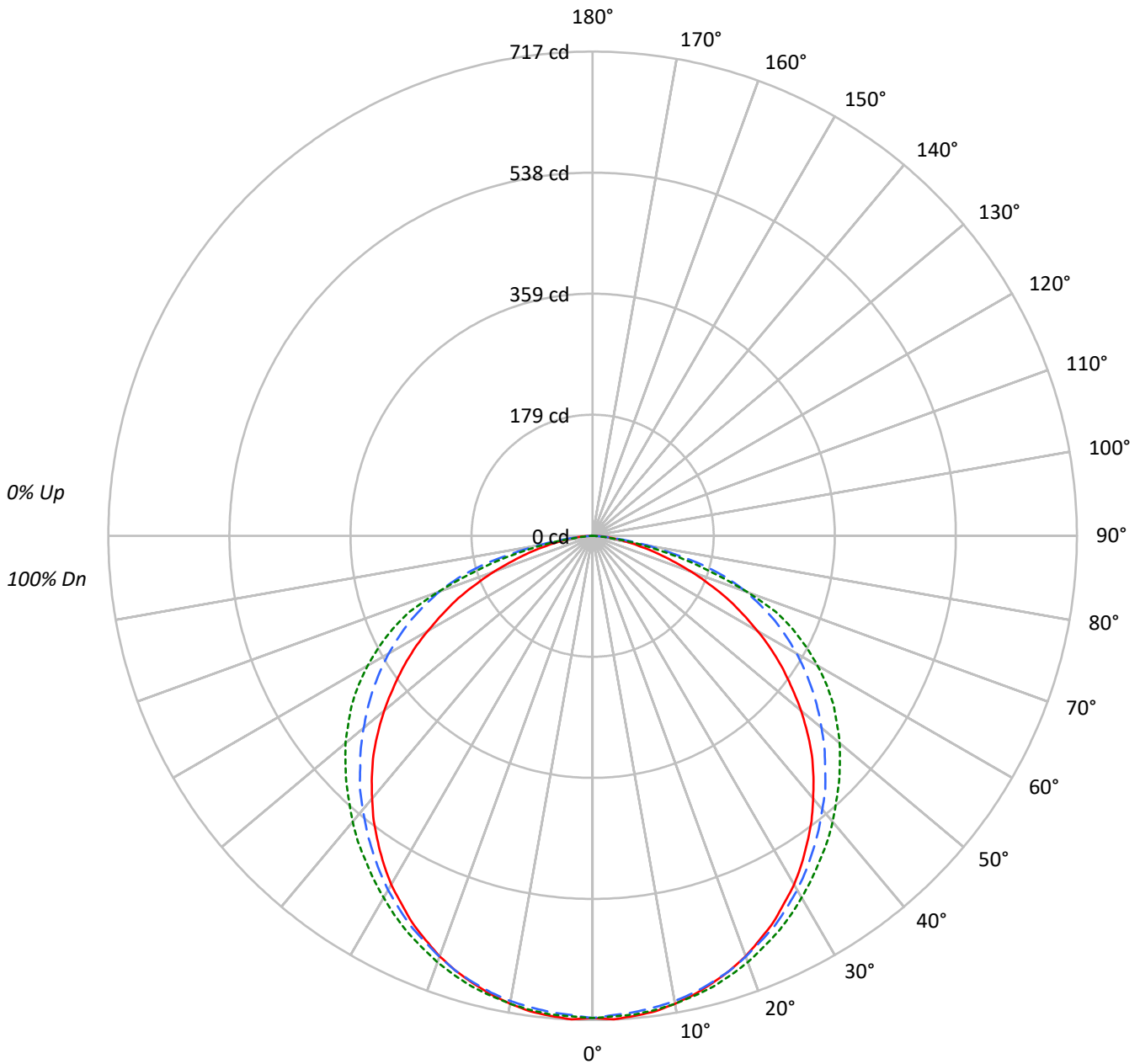
Lumens per Lamp: N/A  
Luminaire Lumens: 2103.0 lumens  
Efficiency: N/A  
Efficacy: 91.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	2016	2016	2016
5°	2022	2007	2016
10°	2017	2005	2017
15°	2004	2000	2019
20°	1990	1992	2018
25°	1969	1985	2018
30°	1944	1974	2017
35°	1909	1960	2021
40°	1871	1949	2037
45°	1832	1943	2059
50°	1768	1942	2097
55°	1692	1953	2141
60°	1590	1967	2169
65°	1467	1988	2182
70°	1278	1991	2008
75°	1054	1854	1623
80°	827	1333	1086
85°	644	515	256



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.6	3.2
10°-20°	194.0	9.2
20°-30°	294.6	14.0
30°-40°	357.0	17.0
40°-50°	376.2	17.9
50°-60°	351.2	16.7
60°-70°	280.7	13.3
70°-80°	154.4	7.3
80°-90°	27.3	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°	556.2	26.5
0°-40°	913.2	43.4
0°-60°	1640.6	78.0
0°-90°	2103.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2103.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	714	714	714	714	714	
5°	714	712	708	713	712	68
15°	686	686	684	691	691	194
25°	632	633	638	647	648	291
35°	554	560	569	583	587	347
45°	459	468	487	509	516	353
55°	344	361	397	425	435	307
65°	220	247	298	322	327	216
75°	97	138	170	153	149	104
85°	20	25	16	10	8	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	714.1	714.1	714.1	714.1	714.1
2.5°	716.8	714.8	710.3	714.1	712.3
5°	713.6	711.6	708.2	712.9	711.6
7.5°	710.3	707.6	704.2	709.6	708.2
10°	703.6	701.6	699.7	704.2	703.6
12.5°	695.7	695.0	693.0	698.4	697.7
15°	685.8	685.8	684.5	691.0	691.0
17.5°	675.1	674.4	675.1	682.5	681.8
20°	662.6	662.6	663.2	671.9	671.9
22.5°	647.3	648.0	650.0	660.6	659.9
25°	632.3	633.4	637.5	646.7	648.0
27.5°	613.7	617.0	621.6	632.8	634.1
30°	596.5	598.5	605.7	616.4	618.9
32.5°	576.0	579.9	587.9	599.8	603.1
35°	554.1	559.5	568.7	583.2	586.6
37.5°	532.4	537.0	549.6	564.7	570.7
40°	507.9	515.8	529.0	546.2	552.8
42.5°	484.0	492.0	509.9	527.7	533.7
45°	458.9	467.6	486.7	508.6	515.8
47.5°	431.1	441.1	465.6	488.7	496.5
50°	402.7	415.2	442.3	468.3	477.5
52.5°	373.0	388.8	419.9	447.0	455.7
55°	343.9	361.0	396.8	424.6	435.1
57.5°	314.1	332.7	373.0	404.7	410.7
60°	281.7	304.3	348.4	376.2	384.2
62.5°	250.0	275.8	323.3	349.8	356.5
65°	219.6	247.4	297.6	322.0	326.7
67.5°	186.4	219.6	269.1	291.7	292.9
70°	154.8	193.1	241.3	251.9	243.3
72.5°	123.7	164.7	209.0	200.3	193.1
75°	96.6	138.2	170.0	152.8	148.8
77.5°	71.5	113.1	121.7	112.5	105.1
80°	50.9	89.2	82.0	70.1	66.8
82.5°	35.0	56.2	45.0	35.0	30.5
85°	19.9	25.1	15.9	9.9	7.9
87.5°	8.5	6.0	3.3	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)