

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: P842981

Luminaire Tested: **24CZ2-30-HRP-UNV-B40**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842981  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P295011)  
Test Lab: INNOVATIONS CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-30-HRP-UNV-B40  
Description: 2X4 3000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND HRP LENS

Light Source: -  
Ballast/Driver: -

**Summary**

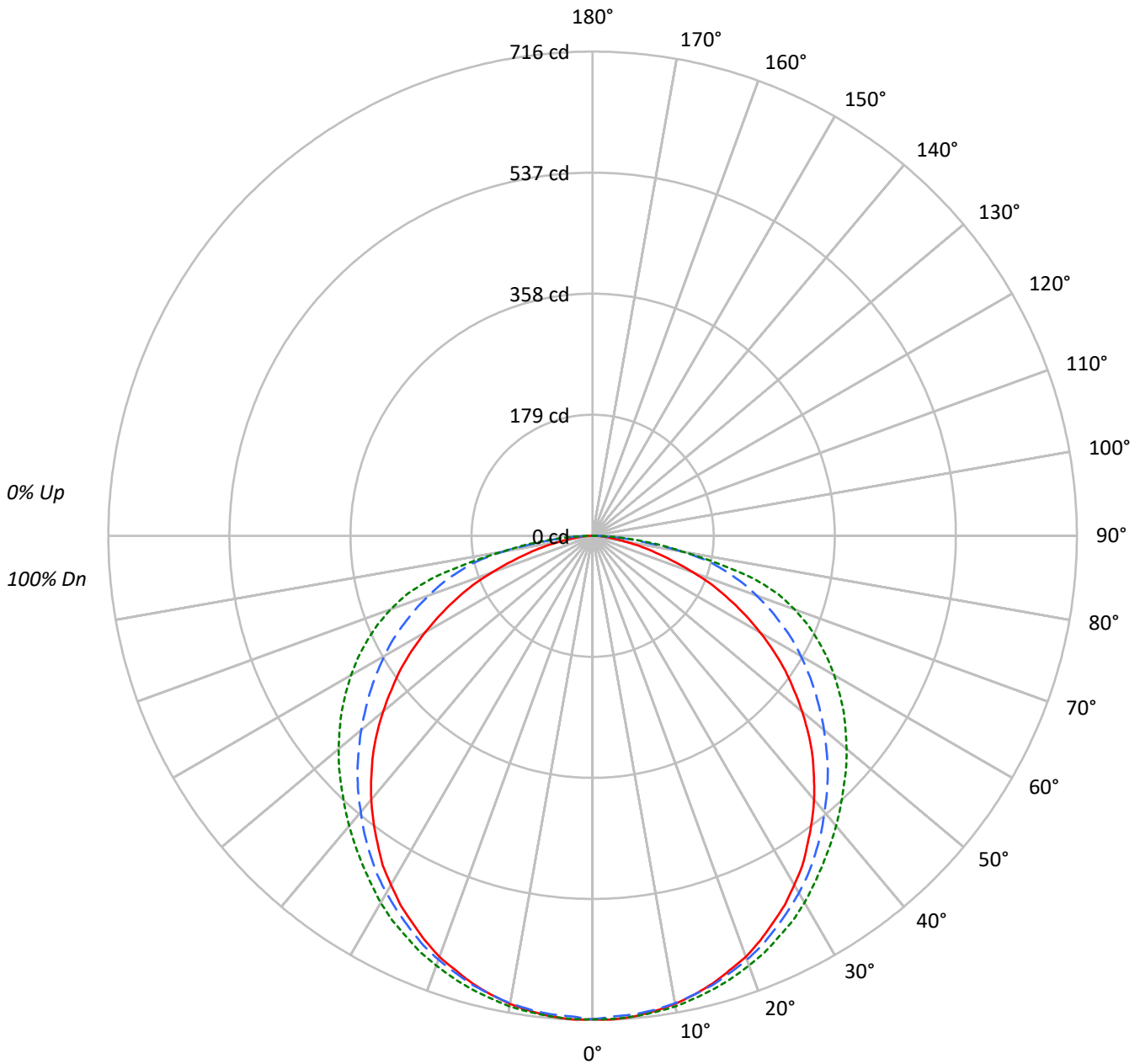
Lumens per Lamp: N/A  
Luminaire Lumens: 2204.0 lumens  
Efficiency: N/A  
Efficacy: 95.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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: P842981

CATALOG NUMBER: 24CZ2-30-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	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82																			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56																			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	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	38	50	43	38	49	42	38	36																			
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28																			
9	55	41	33	27	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	24	35	29	24	23																			

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

	0°	45°	90°
0°	1009	1009	1009
5°	1011	1006	1011
10°	1008	1006	1013
15°	1002	1004	1014
20°	995	1002	1016
25°	983	997	1017
30°	971	994	1021
35°	956	989	1022
40°	938	983	1032
45°	917	982	1048
50°	887	981	1076
55°	856	987	1115
60°	808	1003	1164
65°	746	1026	1229
70°	651	1062	1310
75°	528	1117	1353
80°	389	1096	1096
85°	300	808	912



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.7	3.1
10°-20°	194.5	8.8
20°-30°	296.1	13.4
30°-40°	359.6	16.3
40°-50°	379.9	17.2
50°-60°	358.5	16.3
60°-70°	298.1	13.5
70°-80°	196.1	8.9
80°-90°	53.5	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°	558.4	25.3
0°-40°	918.0	41.7
0°-60°	1656.4	75.2
0°-90°	2204.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2204.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	715	715	715	715	715	
5°	713	713	710	713	713	68
15°	686	686	687	694	694	193
25°	631	635	640	651	653	291
35°	555	561	574	589	593	347
45°	460	469	492	516	525	354
55°	348	363	401	439	453	310
65°	223	249	307	352	368	221
75°	97	141	205	243	248	104
85°	18	41	50	55	56	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	715.1	715.1	715.1	715.1	715.1
2.5°	716.0	715.1	711.4	715.1	715.1
5°	713.3	713.3	710.4	713.3	713.3
7.5°	708.6	708.6	706.8	710.4	710.4
10°	703.1	703.1	702.1	706.8	706.8
12.5°	694.8	695.7	694.8	700.3	700.3
15°	685.6	686.5	687.4	693.9	693.9
17.5°	673.6	675.4	677.2	684.7	685.6
20°	662.5	663.4	667.1	675.4	676.3
22.5°	647.7	650.5	655.1	663.4	666.2
25°	631.1	634.8	640.4	651.4	653.3
27.5°	615.4	618.2	625.5	637.5	641.3
30°	596.1	600.7	609.9	621.9	626.5
32.5°	577.6	582.2	593.2	606.3	609.9
35°	554.6	561.0	574.0	588.7	593.2
37.5°	532.4	538.8	554.6	571.1	576.7
40°	509.3	516.7	533.3	552.7	560.0
42.5°	484.4	494.5	513.0	534.3	542.6
45°	459.5	468.8	491.8	515.8	525.0
47.5°	432.7	443.8	468.8	497.3	508.4
50°	404.2	418.0	446.6	478.0	490.0
52.5°	375.5	391.2	423.5	458.6	471.5
55°	347.8	362.6	401.3	439.2	453.0
57.5°	317.4	335.8	378.3	418.9	432.7
60°	286.1	306.4	355.2	397.7	412.4
62.5°	254.7	277.7	333.1	375.5	391.2
65°	223.3	249.1	307.3	352.5	368.1
67.5°	192.8	221.5	283.2	328.5	344.2
70°	157.8	193.8	257.4	301.7	317.4
72.5°	125.5	167.1	232.6	274.1	287.9
75°	96.9	141.2	204.8	242.7	248.2
77.5°	71.1	115.4	176.2	189.2	190.1
80°	47.9	92.3	134.8	132.8	134.8
82.5°	31.4	69.1	84.9	95.1	96.0
85°	18.5	40.6	49.9	55.3	56.3
87.5°	9.2	13.8	17.6	18.5	20.3
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)