

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: P842949

Luminaire Tested: **22CZ2-34HE-UNV-B50**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842949  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P271965)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-34HE-UNV-B50  
Description: 2X2 3400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RIBBED LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

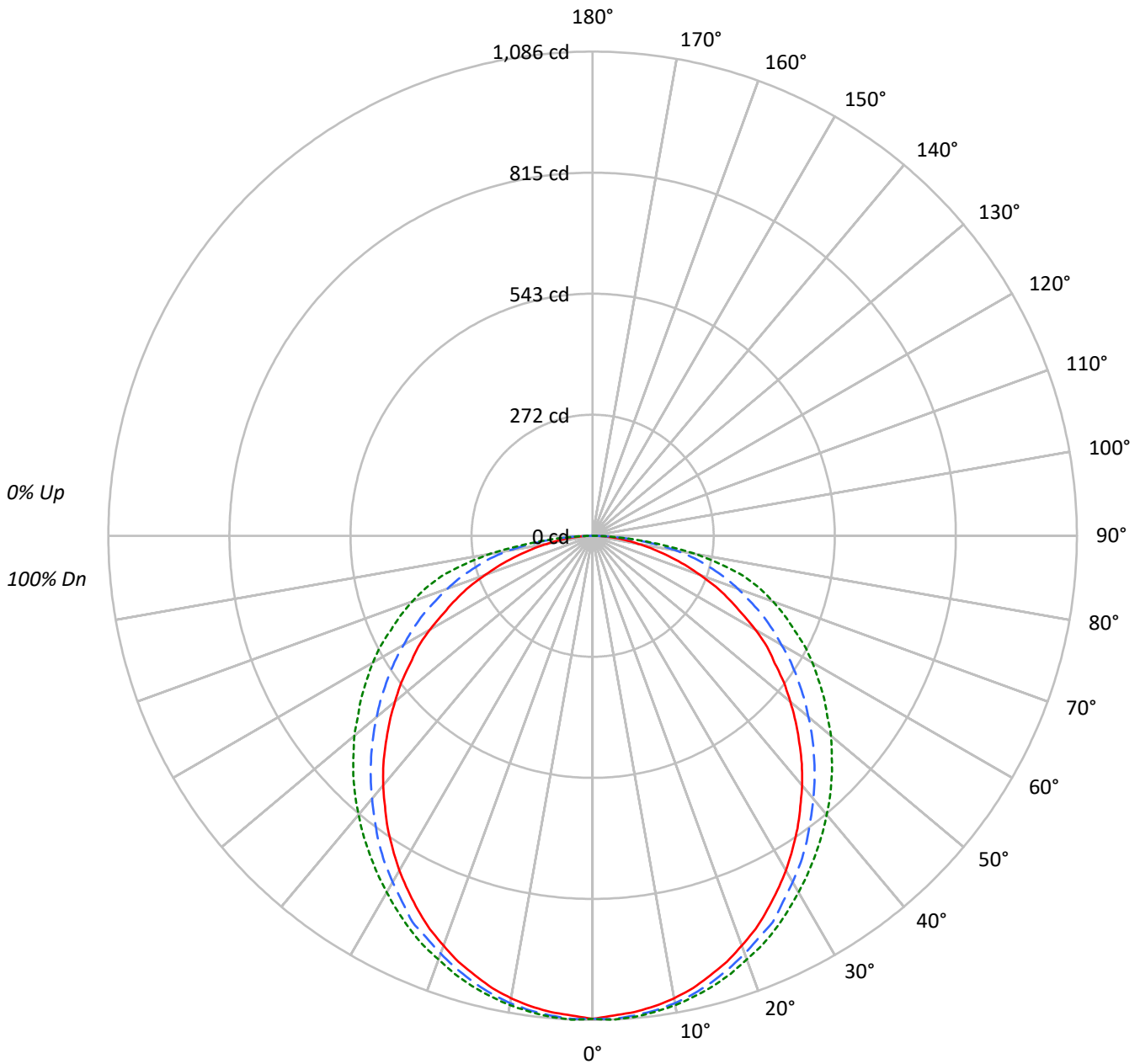
Lumens per Lamp: N/A  
Luminaire Lumens: 3186.0 lumens  
Efficiency: N/A  
Efficacy: 106.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 30  
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	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	81	75	84	78	73	80	76	71	77	73	70	68																			
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56																			
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48																			
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36																			
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32																			
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28																			
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25																			
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23																			

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

	0°	45°	90°
0°	3074	3074	3074
5°	3054	3077	3086
10°	3035	3067	3080
15°	2998	3044	3072
20°	2954	3011	3053
25°	2901	2994	3043
30°	2841	2938	3026
35°	2775	2900	3020
40°	2706	2851	3025
45°	2630	2819	3045
50°	2554	2789	3080
55°	2467	2777	3133
60°	2393	2776	3229
65°	2273	2821	3348
70°	2121	2875	3564
75°	1943	2974	3850
80°	1691	3100	3791
85°	1481	2754	3015



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.4	3.2
10°-20°	291.8	9.2
20°-30°	438.1	13.7
30°-40°	523.4	16.4
40°-50°	544.3	17.1
50°-60°	504.5	15.8
60°-70°	413.8	13.0
70°-80°	279.8	8.8
80°-90°	87.9	2.8
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°	832.3	26.1
0°-40°	1355.7	42.6
0°-60°	2404.5	75.5
0°-90°	3186.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3186.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1083	1083	1083	1083	1083	
5°	1072	1074	1080	1082	1083	102
15°	1020	1025	1036	1042	1046	288
25°	926	934	956	967	972	427
35°	801	812	837	862	872	501
45°	655	668	702	743	759	506
55°	499	514	561	611	633	448
65°	338	357	420	475	499	335
75°	177	207	271	326	351	188
85°	46	63	85	94	93	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1083.3	1083.3	1083.3	1083.3	1083.3
2.5°	1077.0	1080.1	1084.8	1086.5	1086.5
5°	1072.3	1073.8	1080.1	1081.8	1083.3
7.5°	1064.4	1067.6	1073.8	1075.5	1077.0
10°	1053.4	1056.6	1064.4	1067.6	1069.1
12.5°	1039.4	1042.5	1051.9	1056.6	1058.1
15°	1020.5	1025.3	1036.2	1042.5	1045.7
17.5°	1001.8	1006.4	1017.5	1026.8	1030.0
20°	978.2	989.2	997.1	1009.6	1011.1
22.5°	954.8	961.0	975.0	987.7	993.9
25°	926.5	934.4	956.3	967.3	972.0
27.5°	896.8	907.8	925.0	942.1	948.4
30°	867.0	874.7	896.8	917.0	923.4
32.5°	834.1	845.0	868.5	888.9	898.3
35°	801.0	812.0	837.1	862.2	871.7
37.5°	765.1	777.6	802.7	832.4	845.0
40°	730.6	740.0	769.7	805.7	816.7
42.5°	694.5	705.4	736.8	776.1	788.6
45°	655.4	667.8	702.4	743.0	758.7
47.5°	617.6	630.2	667.8	708.6	727.3
50°	578.5	594.2	631.8	678.8	697.7
52.5°	540.9	555.0	597.4	645.9	663.1
55°	498.6	514.2	561.3	611.3	633.3
57.5°	464.0	474.9	526.7	578.5	600.4
60°	421.7	435.8	489.1	543.9	569.0
62.5°	376.3	399.8	454.5	511.0	536.2
65°	338.5	357.4	420.2	474.9	498.6
67.5°	299.4	319.8	380.9	439.1	465.7
70°	255.6	282.2	346.5	404.5	429.6
72.5°	216.3	244.7	310.4	366.9	393.5
75°	177.2	206.9	271.3	326.1	351.2
77.5°	139.6	172.5	235.2	277.5	293.2
80°	103.5	134.9	189.7	219.5	232.0
82.5°	72.2	98.8	139.6	155.3	158.3
85°	45.5	62.7	84.6	94.1	92.6
87.5°	20.4	25.1	31.4	34.6	32.9
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)