

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: P880716

Luminaire Tested: **22CZ2-34VHE-S-B2750-W2D-5000K**

Issue Date: 10/2/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P880716  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P475230)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-34VHE-S-B2750-W2D-5000K  
Description: 2X2 3400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SMOOTH LENS

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

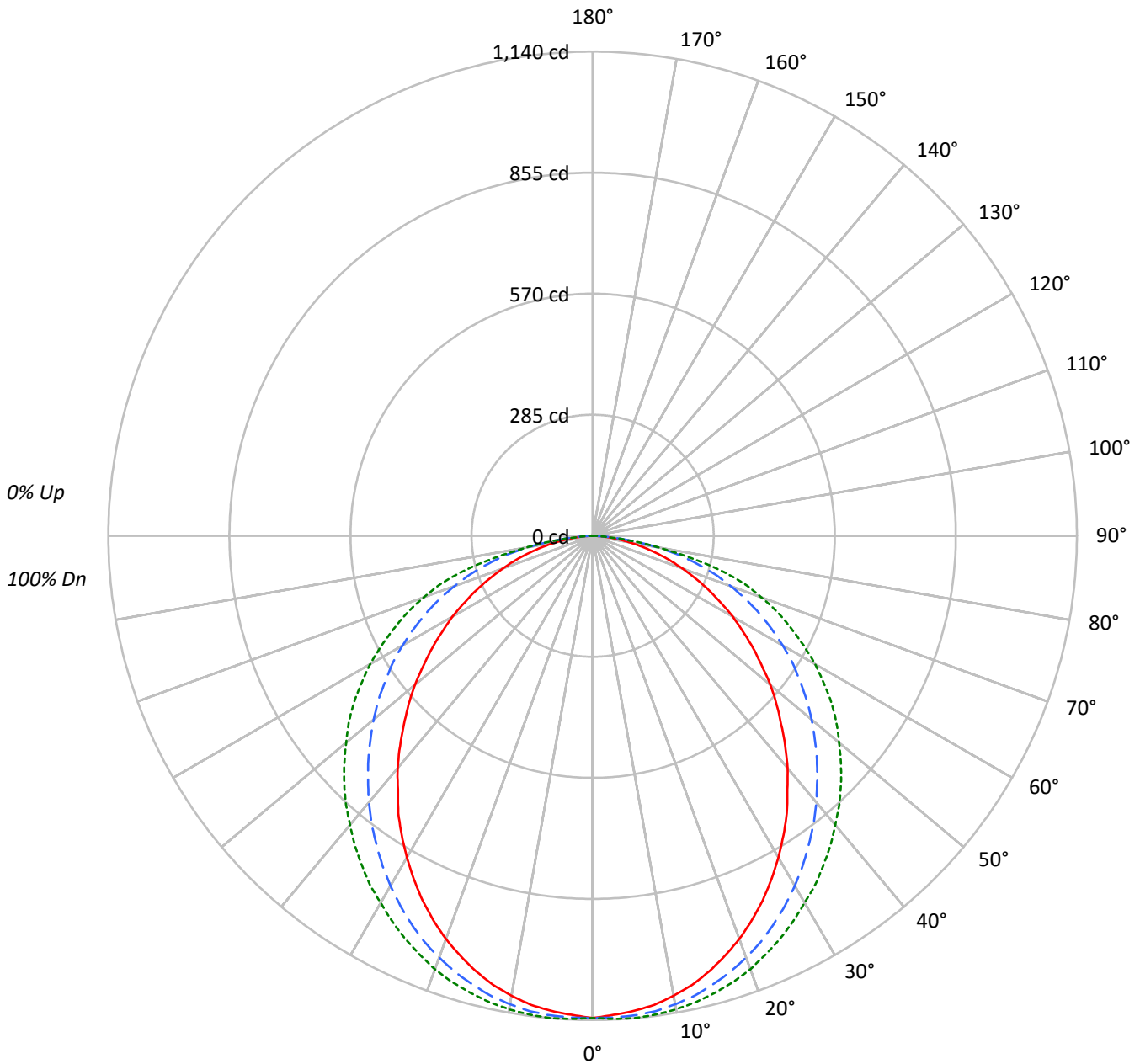
Lumens per Lamp: N/A  
Luminaire Lumens: 3250.0 lumens  
Efficiency: N/A  
Efficacy: 120.4 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 27  
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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83																			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	63	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	43																			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37																			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26																			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24																			

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

	0°	45°	90°
0°	3221	3221	3221
5°	3198	3229	3247
10°	3169	3227	3262
15°	3118	3212	3272
20°	3050	3191	3279
25°	2966	3158	3275
30°	2866	3118	3270
35°	2762	3073	3281
40°	2645	3034	3291
45°	2519	2996	3318
50°	2411	2969	3343
55°	2282	2945	3396
60°	2162	2933	3432
65°	2019	2910	3459
70°	1854	2866	3506
75°	1675	2789	3381
80°	1435	2471	2546
85°	1156	1455	1156



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.6	3.3
10°-20°	307.7	9.5
20°-30°	462.2	14.2
30°-40°	551.2	17.0
40°-50°	569.9	17.5
50°-60°	524.0	16.1
60°-70°	417.1	12.8
70°-80°	254.8	7.8
80°-90°	55.3	1.7
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°	877.6	27.0
0°-40°	1428.8	44.0
0°-60°	2522.7	77.6
0°-90°	3250.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3250.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1135	1135	1135	1135	1135	
5°	1123	1126	1134	1138	1140	106
15°	1061	1074	1094	1109	1114	299
25°	947	970	1009	1037	1046	436
35°	797	831	887	933	947	498
45°	628	672	747	807	827	485
55°	461	512	595	663	686	413
65°	301	352	433	494	515	298
75°	153	198	254	299	308	163
85°	36	43	45	39	36	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1135.3	1135.3	1135.3	1135.3	<i>1135.3</i>
2.5°	1129.2	1130.6	1135.3	1138.4	<i>1138.4</i>
5°	<i>1122.9</i>	<i>1126.0</i>	<i>1133.7</i>	<i>1138.4</i>	<i>1140.0</i>
7.5°	1113.8	1118.3	1129.2	1135.3	<i>1137.0</i>
10°	1099.8	1106.1	1119.9	1129.2	<i>1132.1</i>
12.5°	1082.9	1092.1	1109.1	1121.5	<i>1124.5</i>
15°	1061.4	1073.6	1093.5	1109.1	<i>1113.8</i>
17.5°	1036.6	1052.0	1076.8	1095.3	<i>1101.4</i>
20°	1010.2	1025.8	1056.7	1078.2	<i>1085.9</i>
22.5°	979.5	999.6	1035.0	1059.8	<i>1066.0</i>
25°	947.2	970.3	1008.8	1036.6	<i>1045.9</i>
27.5°	911.6	939.5	981.1	1015.1	<i>1022.8</i>
30°	874.6	903.9	951.7	988.8	<i>998.0</i>
32.5°	836.0	870.0	920.8	962.6	<i>975.0</i>
35°	797.4	831.4	887.0	933.4	<i>947.2</i>
37.5°	752.7	792.8	854.6	902.5	<i>919.3</i>
40°	714.2	752.7	819.2	871.6	<i>888.5</i>
42.5°	670.9	712.7	782.2	839.1	<i>859.2</i>
45°	627.8	672.5	746.6	806.8	<i>826.9</i>
47.5°	587.6	632.3	709.5	772.9	<i>792.8</i>
50°	546.1	592.4	672.5	737.3	<i>757.4</i>
52.5°	501.4	552.2	635.5	700.3	<i>723.5</i>
55°	461.2	512.0	595.3	663.3	<i>686.5</i>
57.5°	419.5	472.0	558.5	623.3	<i>644.9</i>
60°	381.0	431.9	516.9	580.0	<i>604.7</i>
62.5°	339.3	391.7	475.0	536.8	<i>560.0</i>
65°	300.7	351.7	433.4	493.7	<i>515.2</i>
67.5°	262.1	313.3	390.1	447.4	<i>472.0</i>
70°	223.5	274.7	345.4	401.1	<i>422.6</i>
72.5°	189.8	234.5	302.3	353.3	<i>373.4</i>
75°	152.8	197.5	254.4	299.1	<i>308.4</i>
77.5°	118.7	158.9	206.8	226.7	<i>230.0</i>
80°	87.8	118.7	151.2	155.8	<i>155.8</i>
82.5°	58.5	81.7	94.1	95.5	<i>94.1</i>
85°	35.5	43.1	44.7	38.6	<i>35.5</i>
87.5°	12.2	12.2	7.7	4.5	<i>1.6</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)