

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: P732033

Luminaire Tested: **22CZ2-34HE-SQR-B2750-W2D-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732033  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387672)  
Test Lab: INNOVATIONS CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-34HE-SQR-B2750-W2D-3500K  
Description: 2X2 3400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

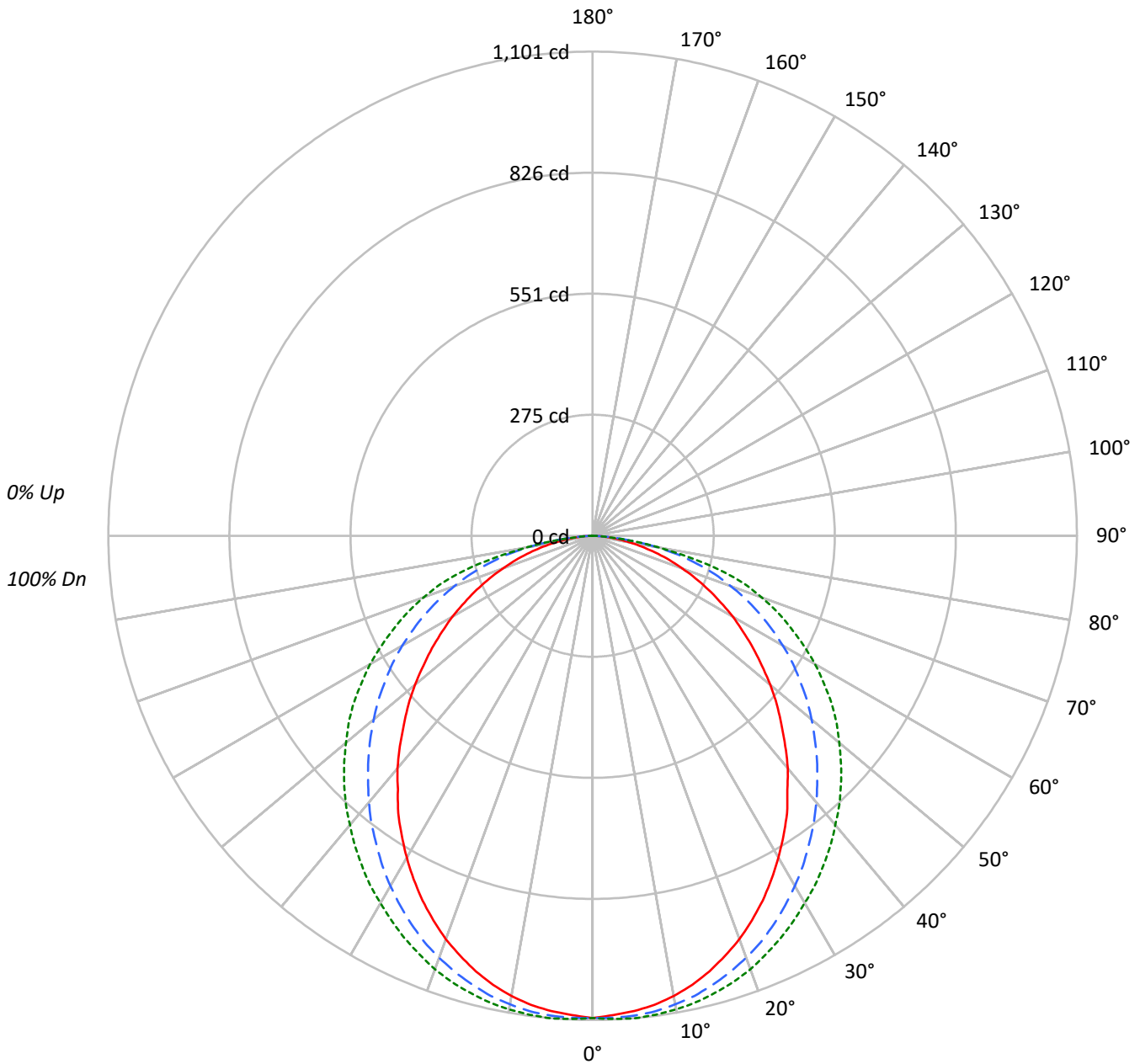
Lumens per Lamp: N/A  
Luminaire Lumens: 3140.0 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	3112	3112	3112
5°	3090	3120	3137
10°	3062	3117	3152
15°	3012	3104	3161
20°	2948	3083	3168
25°	2865	3051	3163
30°	2769	3013	3160
35°	2669	2969	3170
40°	2556	2931	3180
45°	2434	2894	3205
50°	2329	2868	3230
55°	2205	2846	3281
60°	2090	2834	3315
65°	1952	2812	3342
70°	1794	2769	3387
75°	1618	2697	3267
80°	1389	2386	2461
85°	1120	1410	1120



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.0	3.3
10°-20°	297.3	9.5
20°-30°	446.5	14.2
30°-40°	532.6	17.0
40°-50°	550.6	17.5
50°-60°	506.2	16.1
60°-70°	403.0	12.8
70°-80°	246.2	7.8
80°-90°	53.6	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°	847.8	27.0
0°-40°	1380.4	44.0
0°-60°	2437.2	77.6
0°-90°	3140.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3140.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1097	1097	1097	1097	1097	
5°	1085	1088	1095	1100	1101	103
15°	1025	1037	1057	1072	1076	289
25°	915	937	975	1001	1010	421
35°	770	803	857	902	915	481
45°	607	650	721	780	799	469
55°	446	495	575	641	663	399
65°	291	340	419	477	498	288
75°	148	191	246	289	298	157
85°	34	42	43	37	34	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1096.8	1096.8	1096.8	1096.8	1096.8
2.5°	1090.8	1092.4	1096.8	1099.8	1099.8
5°	1084.9	1087.8	1095.4	1099.8	1101.4
7.5°	1075.9	1080.5	1090.8	1096.8	1098.4
10°	1062.6	1068.6	1081.9	1090.8	1093.8
12.5°	1046.1	1055.1	1071.6	1083.5	1086.5
15°	1025.3	1037.2	1056.6	1071.6	1075.9
17.5°	1001.4	1016.3	1040.2	1058.0	1064.0
20°	976.2	991.1	1020.9	1041.7	1049.1
22.5°	946.4	965.6	1000.0	1023.9	1029.8
25°	915.0	937.4	974.6	1001.4	1010.4
27.5°	880.8	907.6	947.8	980.5	988.1
30°	845.0	873.3	919.6	955.3	964.3
32.5°	807.7	840.5	889.7	929.9	941.8
35°	770.5	803.3	857.0	901.7	915.0
37.5°	727.2	766.0	825.6	871.9	888.2
40°	690.1	727.2	791.4	842.1	858.4
42.5°	648.3	688.5	755.6	810.7	830.1
45°	606.6	649.7	721.3	779.5	798.7
47.5°	567.9	611.0	685.5	746.7	766.0
50°	527.5	572.2	649.7	712.3	731.8
52.5°	484.4	533.5	614.0	676.5	699.0
55°	445.7	494.7	575.2	640.8	663.2
57.5°	405.3	456.0	539.5	602.0	622.9
60°	368.2	417.3	499.3	560.3	584.2
62.5°	327.8	378.5	459.0	518.6	541.0
65°	290.7	339.8	418.8	476.9	497.7
67.5°	253.3	302.6	377.1	432.2	456.0
70°	216.2	265.3	333.8	387.5	408.3
72.5°	183.4	226.5	292.1	341.4	360.6
75°	147.6	190.7	246.0	289.1	298.0
77.5°	114.8	153.6	199.7	219.2	222.1
80°	85.0	114.8	146.0	150.6	150.6
82.5°	56.6	79.1	91.0	92.4	91.0
85°	34.4	41.7	43.3	37.4	34.4
87.5°	11.9	11.9	7.6	4.6	1.6
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)