

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: P842946

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842946  
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-UNV-B50  
Description: 2X2 3400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

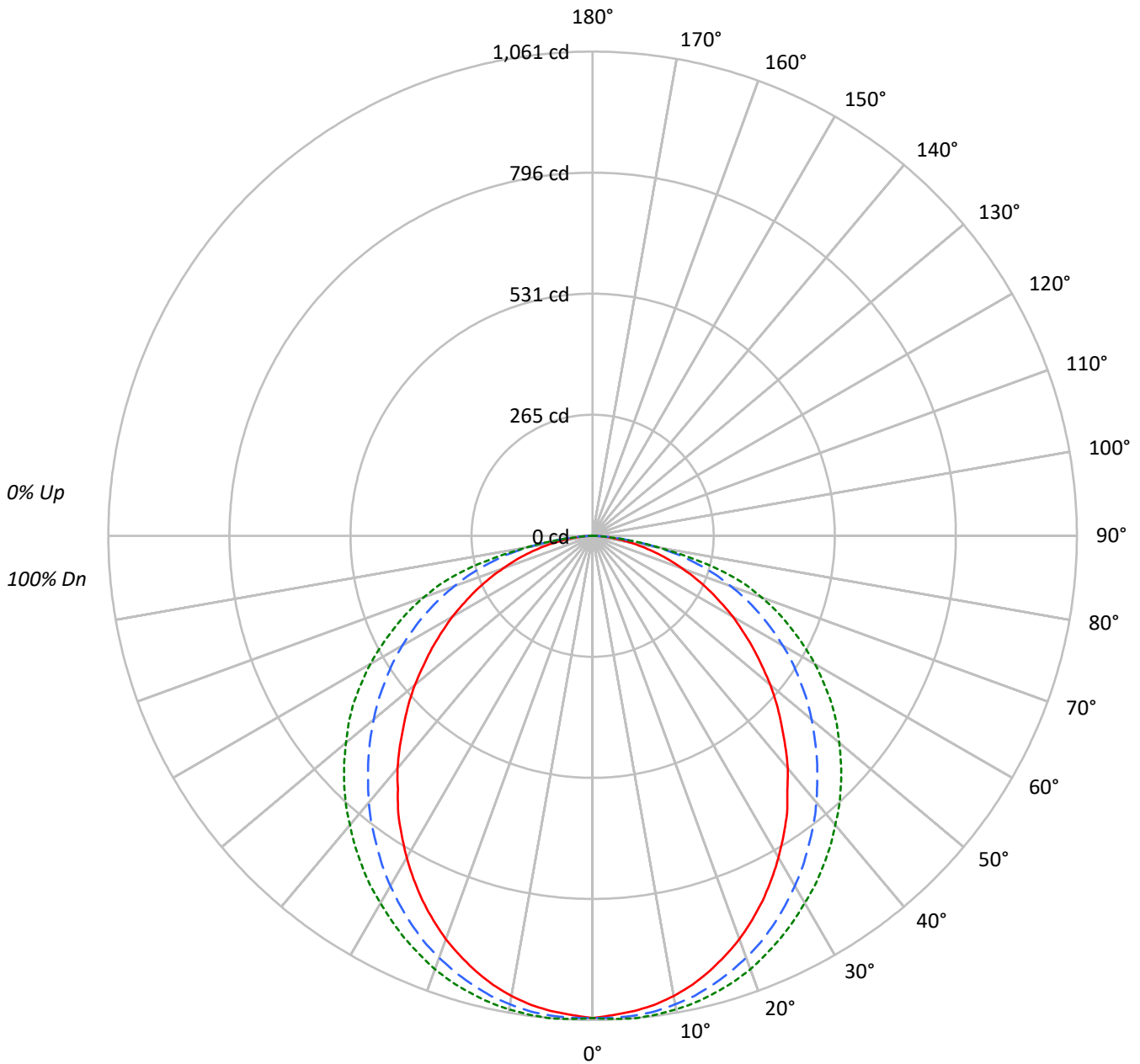
Lumens per Lamp: N/A  
Luminaire Lumens: 3026.0 lumens  
Efficiency: N/A  
Efficacy: 100.9 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 30  
Input Voltage (V): NR  
Input Current (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	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°	2999	2999	2999
5°	2978	3007	3023
10°	2950	3004	3037
15°	2902	2991	3046
20°	2841	2971	3053
25°	2761	2941	3049
30°	2668	2904	3045
35°	2572	2861	3055
40°	2463	2825	3064
45°	2346	2789	3089
50°	2244	2764	3113
55°	2125	2742	3162
60°	2014	2731	3194
65°	1881	2710	3221
70°	1728	2669	3265
75°	1560	2599	3149
80°	1340	2299	2371
85°	1078	1358	1078



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.2	3.3
10°-20°	286.5	9.5
20°-30°	430.3	14.2
30°-40°	513.2	17.0
40°-50°	530.6	17.5
50°-60°	487.8	16.1
60°-70°	388.4	12.8
70°-80°	237.3	7.8
80°-90°	51.6	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°	817.0	27.0
0°-40°	1330.2	44.0
0°-60°	2348.7	77.6
0°-90°	3026.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3026.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1057	1057	1057	1057	1057	
5°	1046	1048	1056	1060	1061	99
15°	988	1000	1018	1033	1037	278
25°	882	903	939	965	974	406
35°	743	774	826	869	882	463
45°	585	626	695	751	770	452
55°	430	477	554	618	639	384
65°	280	327	404	460	480	277
75°	142	184	237	279	287	152
85°	33	40	42	36	33	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1057.0	1057.0	1057.0	1057.0	1057.0
2.5°	1051.2	1052.8	1057.0	1059.8	1059.8
5°	1045.5	1048.3	1055.6	1059.8	1061.4
7.5°	1036.9	1041.3	1051.2	1057.0	1058.5
10°	1024.0	1029.8	1042.6	1051.2	1054.1
12.5°	1008.1	1016.8	1032.6	1044.1	1047.0
15°	988.0	999.5	1018.3	1032.6	1036.9
17.5°	965.1	979.4	1002.4	1019.6	1025.4
20°	940.7	955.1	983.8	1003.9	1011.0
22.5°	912.0	930.6	963.7	986.7	992.4
25°	881.8	903.4	939.2	965.1	973.7
27.5°	848.8	874.7	913.4	944.9	952.2
30°	814.4	841.6	886.2	920.6	929.2
32.5°	778.4	810.0	857.4	896.1	907.6
35°	742.6	774.2	825.8	868.9	881.8
37.5°	700.8	738.2	795.6	840.2	855.9
40°	665.0	700.8	762.7	811.5	827.2
42.5°	624.8	663.5	728.2	781.2	800.0
45°	584.6	626.1	695.1	751.2	769.7
47.5°	547.2	588.8	660.6	719.6	738.2
50°	508.4	551.5	626.1	686.5	705.2
52.5°	466.8	514.1	591.7	652.0	673.6
55°	429.5	476.8	554.3	617.5	639.2
57.5°	390.6	439.4	519.9	580.2	600.3
60°	354.8	402.1	481.2	540.0	562.9
62.5°	315.9	364.8	442.3	499.8	521.4
65°	280.1	327.4	403.6	459.5	479.7
67.5°	244.1	291.6	363.4	416.5	439.4
70°	208.3	255.6	321.7	373.4	393.5
72.5°	176.7	218.3	281.5	329.0	347.5
75°	142.3	183.8	237.1	278.6	287.2
77.5°	110.7	148.0	192.4	211.2	214.1
80°	82.0	110.7	140.7	145.1	145.1
82.5°	54.6	76.2	87.7	89.0	87.7
85°	33.1	40.2	41.7	36.0	33.1
87.5°	11.5	11.5	7.3	4.4	1.5
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)