

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: P881142

Luminaire Tested: **22CZ2-50VHE-RDP-UNV-B50**

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: P881142
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474998)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-50VHE-RDP-UNV-B50
Description: 2X2 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

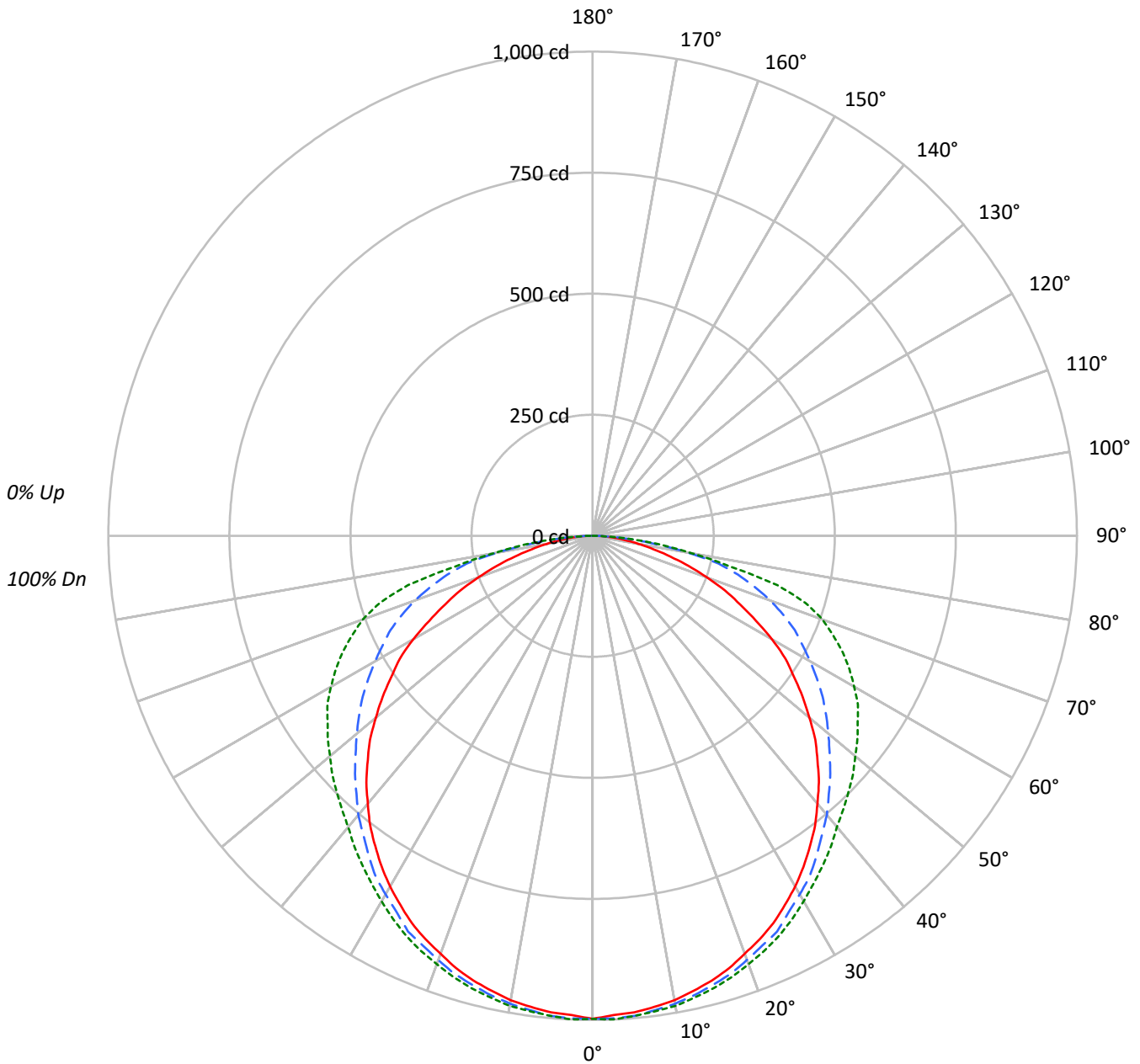
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3176.0 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 42
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	100	96	92	96	92	89	92	89	86	88	86	84	82																			
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67																			
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55																			
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47																			
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40																			
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35																			
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31																			
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27																			
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24																			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2831	2831	2831
5°	2815	2835	2835
10°	2807	2827	2841
15°	2794	2820	2841
20°	2773	2815	2843
25°	2765	2823	2853
30°	2741	2802	2856
35°	2711	2792	2873
40°	2674	2787	2908
45°	2634	2785	3000
50°	2578	2805	3125
55°	2508	2867	3305
60°	2427	2943	3540
65°	2258	3092	3828
70°	2074	3238	4188
75°	1820	3406	4329
80°	1565	3242	3401
85°	1371	2354	2585



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.4	3.0
10°-20°	270.9	8.5
20°-30°	413.4	13.0
30°-40°	504.7	15.9
40°-50°	539.7	17.0
50°-60°	520.9	16.4
60°-70°	448.4	14.1
70°-80°	303.4	9.6
80°-90°	80.1	2.5
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°	778.7	24.5
0°-40°	1283.4	40.4
0°-60°	2344.1	73.8
0°-90°	3176.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3176.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	998	998	998	998	998	
5°	988	991	995	995	995	94
15°	951	953	960	965	967	268
25°	883	888	902	907	911	406
35°	782	790	806	822	830	490
45°	656	668	694	729	748	507
55°	507	523	580	638	668	454
65°	336	369	460	533	570	335
75°	166	220	311	374	395	178
85°	42	59	72	75	79	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	997.7	997.7	997.7	997.7	997.7
2.5°	990.6	992.8	997.7	997.7	999.8
5°	988.2	990.6	995.2	995.2	995.2
7.5°	981.2	983.6	988.2	990.6	990.6
10°	974.2	976.6	981.2	983.6	986.0
12.5°	962.6	964.7	971.8	976.6	976.6
15°	951.0	953.1	960.1	964.7	967.2
17.5°	936.7	941.5	948.5	953.1	955.5
20°	918.3	922.9	932.1	939.3	941.5
22.5°	901.8	906.7	915.9	922.9	927.5
25°	883.2	887.8	901.8	906.7	911.3
27.5°	859.7	864.6	876.2	885.4	892.4
30°	836.5	841.1	855.1	867.0	871.6
32.5°	810.6	817.6	834.1	843.5	850.3
35°	782.5	789.6	806.0	822.2	829.5
37.5°	754.7	761.7	777.9	799.0	808.4
40°	722.0	731.2	752.3	780.4	785.0
42.5°	691.6	703.2	722.0	754.7	766.3
45°	656.5	668.1	694.0	729.1	747.5
47.5°	623.8	635.4	663.5	705.6	729.1
50°	584.1	600.3	635.4	684.5	707.8
52.5°	546.6	560.7	607.6	661.1	689.4
55°	506.9	523.4	579.5	637.8	668.1
57.5°	472.1	485.9	549.0	614.6	649.5
60°	427.6	446.2	518.5	588.7	623.8
62.5°	380.6	408.9	488.3	560.7	597.9
65°	336.3	369.0	460.5	532.6	570.1
67.5°	296.7	331.7	425.4	502.3	537.4
70°	250.0	294.5	390.3	465.1	504.8
72.5°	208.1	257.0	350.6	425.4	460.5
75°	166.0	219.7	310.7	373.8	394.9
77.5°	128.5	180.0	266.2	285.0	287.5
80°	95.8	142.5	198.4	200.8	208.1
82.5°	65.6	100.4	128.5	140.1	142.5
85°	42.1	58.6	72.3	74.8	79.4
87.5°	18.9	21.1	25.6	23.5	23.5
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)