

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: P881141

Luminaire Tested: **22CZ2-50VHE-RDP-UNV-B40**

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: P881141
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-B40
Description: 2X2 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

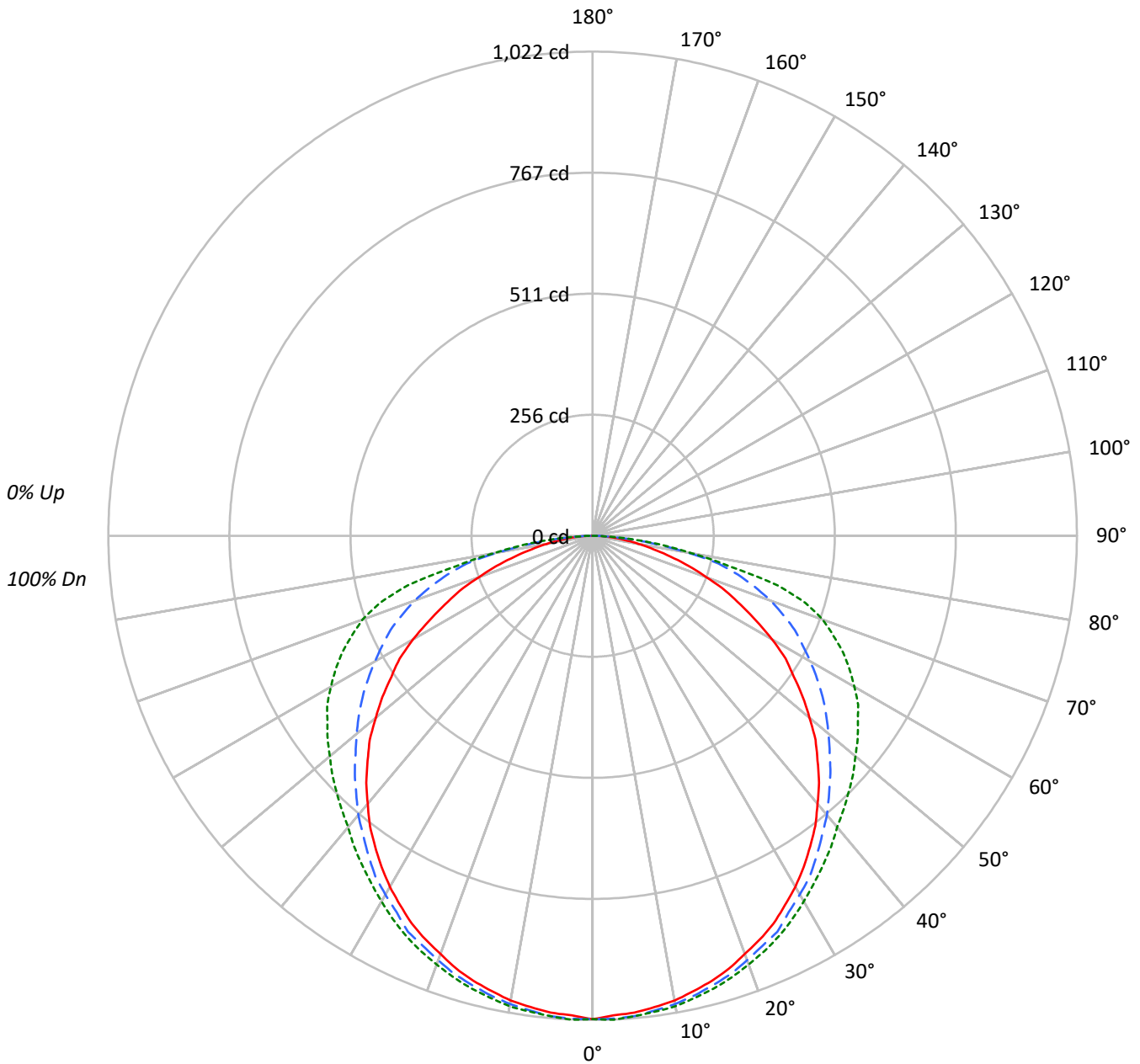
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3248.0 lumens
Efficiency: N/A
Efficacy: 77.3 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°	2895	2895	2895
5°	2879	2899	2899
10°	2871	2891	2906
15°	2857	2884	2906
20°	2836	2878	2908
25°	2828	2888	2918
30°	2803	2865	2920
35°	2772	2855	2939
40°	2735	2850	2974
45°	2694	2848	3067
50°	2637	2868	3195
55°	2565	2932	3380
60°	2482	3009	3620
65°	2310	3162	3914
70°	2121	3311	4283
75°	1862	3483	4428
80°	1601	3316	3477
85°	1403	2409	2644



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.5	3.0
10°-20°	277.1	8.5
20°-30°	422.8	13.0
30°-40°	516.2	15.9
40°-50°	551.9	17.0
50°-60°	532.7	16.4
60°-70°	458.6	14.1
70°-80°	310.3	9.6
80°-90°	81.9	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°	796.3	24.5
0°-40°	1312.5	40.4
0°-60°	2397.2	73.8
0°-90°	3248.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3248.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1020	1020	1020	1020	1020	
5°	1011	1013	1018	1018	1018	96
15°	972	975	982	987	989	274
25°	903	908	922	927	932	416
35°	800	808	824	841	848	501
45°	671	683	710	746	764	518
55°	518	535	593	652	683	465
65°	344	377	471	545	583	342
75°	170	225	318	382	404	182
85°	43	60	74	76	81	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1020.3	1020.3	1020.3	1020.3	1020.3
2.5°	1013.1	1015.3	1020.3	1020.3	1022.5
5°	1010.6	1013.1	1017.8	1017.8	1017.8
7.5°	1003.4	1005.9	1010.6	1013.1	1013.1
10°	996.3	998.7	1003.4	1005.9	1008.4
12.5°	984.4	986.6	993.8	998.7	998.7
15°	972.5	974.7	981.9	986.6	989.1
17.5°	957.9	962.9	970.0	974.7	977.2
20°	939.1	943.8	953.2	960.6	962.9
22.5°	922.3	927.2	936.6	943.8	948.5
25°	903.2	907.9	922.3	927.2	931.9
27.5°	879.2	884.2	896.0	905.4	912.6
30°	855.5	860.2	874.5	886.6	891.3
32.5°	829.0	836.2	853.0	862.6	869.6
35°	800.3	807.5	824.3	840.9	848.3
37.5°	771.8	779.0	795.6	817.1	826.8
40°	738.4	747.8	769.3	798.1	802.8
42.5°	707.2	719.1	738.4	771.8	783.7
45°	671.4	683.2	709.7	745.6	764.4
47.5°	637.9	649.8	678.5	721.6	745.6
50°	597.4	613.9	649.8	700.1	723.8
52.5°	559.0	573.4	621.4	676.1	705.0
55°	518.4	535.3	592.7	652.3	683.2
57.5°	482.8	496.9	561.5	628.5	664.2
60°	437.3	456.3	530.3	602.1	637.9
62.5°	389.3	418.2	499.4	573.4	611.5
65°	344.0	377.4	470.9	544.7	583.0
67.5°	303.4	339.3	435.0	513.7	549.6
70°	255.6	301.2	399.1	475.6	516.2
72.5°	212.8	262.8	358.6	435.0	470.9
75°	169.8	224.7	317.7	382.3	403.9
77.5°	131.4	184.1	272.2	291.5	294.0
80°	98.0	145.8	202.9	205.4	212.8
82.5°	67.1	102.7	131.4	143.3	145.8
85°	43.1	59.9	74.0	76.5	81.2
87.5°	19.3	21.5	26.2	24.0	24.0
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)