

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: P881093

Luminaire Tested: **22CZ2-34VHE-HRP-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: P881093
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P475114)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-34VHE-HRP-UNV-B40
Description: 2X2 3400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

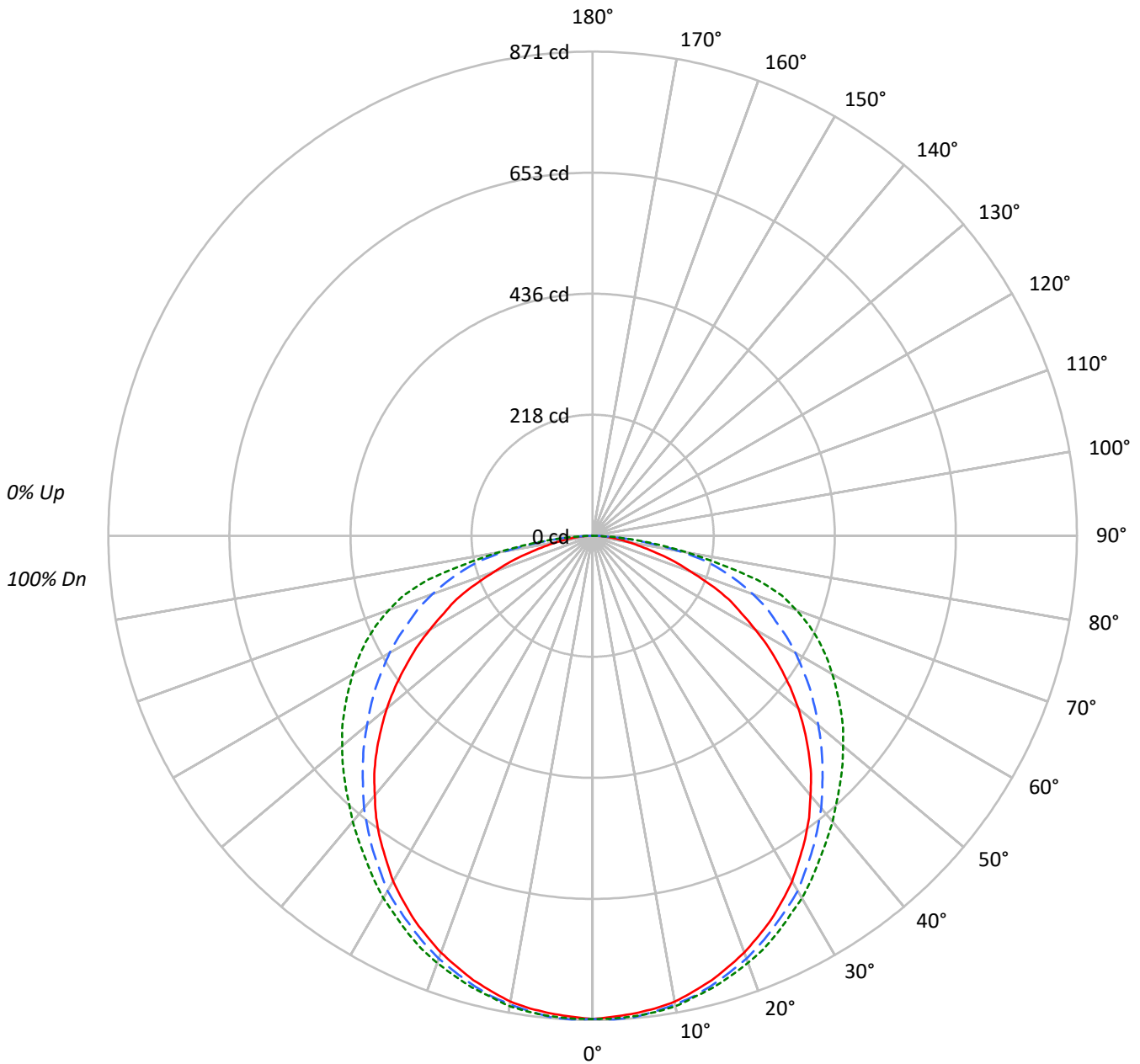
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2640.0 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
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	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	87	84	82																			
2	98	89	82	76	95	87	80	75	84	78	73	80	75	71	77	73	70	68																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56																			
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36																			
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31																			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28																			
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	31	27	25																			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2467	2467	2467
5°	2457	2476	2471
10°	2452	2466	2476
15°	2431	2456	2471
20°	2409	2444	2469
25°	2383	2425	2467
30°	2352	2417	2467
35°	2308	2388	2463
40°	2257	2369	2486
45°	2205	2346	2527
50°	2132	2338	2595
55°	2035	2356	2694
60°	1919	2391	2826
65°	1812	2437	3019
70°	1547	2543	3232
75°	1297	2649	3360
80°	1064	2559	2802
85°	921	1895	2058



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.4	3.1
10°-20°	235.7	8.9
20°-30°	357.2	13.5
30°-40°	431.3	16.3
40°-50°	453.2	17.2
50°-60°	426.4	16.2
60°-70°	355.5	13.5
70°-80°	235.6	8.9
80°-90°	62.8	2.4
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°	675.3	25.6
0°-40°	1106.6	41.9
0°-60°	1986.1	75.2
0°-90°	2640.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2640.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	869	869	869	869	869	
5°	863	864	869	869	868	82
15°	828	831	836	839	841	233
25°	761	766	774	784	788	350
35°	666	673	689	705	711	417
45°	550	558	585	614	630	423
55°	411	430	476	525	544	368
65°	270	293	363	423	450	263
75°	118	165	242	292	306	128
85°	28	43	58	63	63	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	869.3	869.3	869.3	869.3	869.3
2.5°	866.0	867.6	871.0	871.0	869.3
5°	862.6	864.3	869.3	869.3	867.6
7.5°	857.7	859.5	862.6	866.0	864.3
10°	851.0	852.7	856.0	859.5	859.5
12.5°	839.4	841.0	847.7	849.5	849.5
15°	827.7	831.0	836.0	839.4	841.0
17.5°	812.7	816.1	822.7	829.4	829.4
20°	797.8	801.1	809.4	816.1	817.6
22.5°	779.5	784.4	792.8	801.1	804.4
25°	761.2	766.1	774.5	784.4	787.8
27.5°	739.4	744.4	756.2	767.8	769.3
30°	717.7	722.7	737.7	747.7	752.8
32.5°	691.1	697.8	712.7	727.7	732.7
35°	666.2	672.8	689.4	704.6	711.1
37.5°	639.5	646.0	664.5	683.0	691.1
40°	609.4	617.9	639.5	659.5	671.1
42.5°	581.3	589.6	611.3	637.9	649.5
45°	549.5	557.8	584.6	614.4	629.6
47.5°	516.3	526.2	557.8	594.6	609.4
50°	483.0	494.6	529.6	571.2	587.8
52.5°	447.9	463.0	502.9	548.0	567.8
55°	411.3	429.7	476.3	524.6	544.5
57.5°	376.3	393.1	447.9	499.6	521.2
60°	338.1	359.7	421.3	474.5	498.0
62.5°	301.5	324.8	393.1	449.7	474.5
65°	269.9	293.0	363.0	422.9	449.7
67.5°	228.1	259.9	338.1	394.6	421.3
70°	186.5	229.8	306.5	364.7	389.6
72.5°	154.9	196.5	274.8	333.1	356.4
75°	118.3	164.9	241.6	291.5	306.5
77.5°	88.3	136.6	206.5	231.6	233.1
80°	65.1	104.8	156.6	164.9	171.5
82.5°	45.1	73.2	101.7	111.5	115.0
85°	28.3	43.3	58.2	63.2	63.2
87.5°	15.0	16.6	20.0	20.0	20.0
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)