

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: P842951

Luminaire Tested: **22CZ2-39HE-HRP-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842951
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P294823)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-39HE-HRP-UNV-B40
Description: 2X2 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Summary

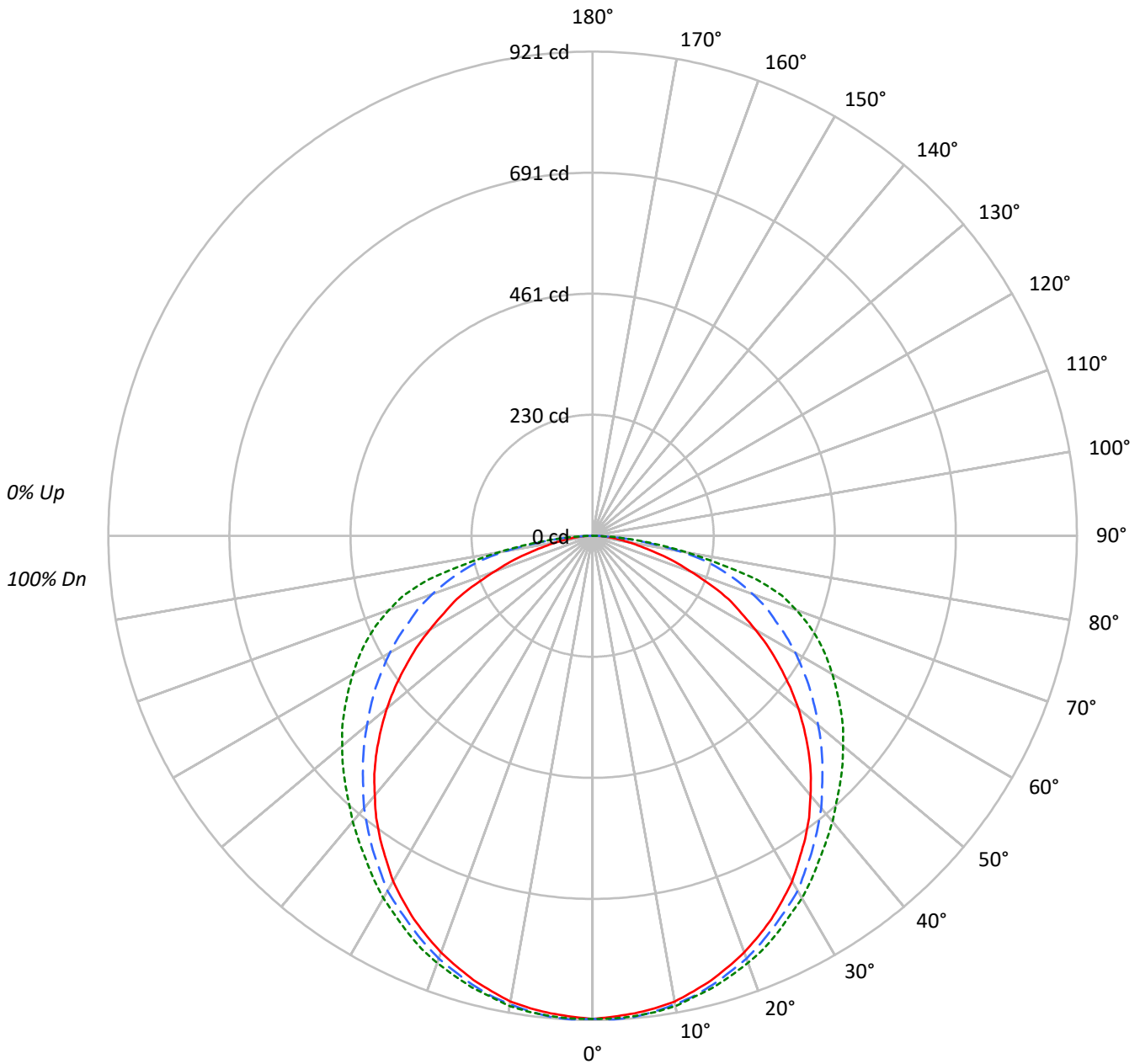
Lumens per Lamp: N/A
Luminaire Lumens: 2791.0 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 32
Input Voltage (V): NR
Input Current (A_{in}): 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°	2608	2608	2608
5°	2598	2618	2613
10°	2592	2608	2618
15°	2570	2597	2612
20°	2547	2584	2610
25°	2519	2563	2607
30°	2487	2555	2608
35°	2439	2525	2604
40°	2387	2504	2628
45°	2332	2480	2671
50°	2254	2472	2744
55°	2151	2491	2848
60°	2029	2528	2987
65°	1916	2577	3192
70°	1635	2687	3417
75°	1370	2799	3551
80°	1123	2704	2963
85°	977	2009	2175



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.1	3.1
10°-20°	249.2	8.9
20°-30°	377.6	13.5
30°-40°	456.0	16.3
40°-50°	479.1	17.2
50°-60°	450.8	16.2
60°-70°	375.9	13.5
70°-80°	249.0	8.9
80°-90°	66.4	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°	713.9	25.6
0°-40°	1169.8	41.9
0°-60°	2099.7	75.2
0°-90°	2791.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2791.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	919	919	919	919	919	
5°	912	914	919	919	917	87
15°	875	878	884	887	889	247
25°	804	810	819	829	833	370
35°	704	711	729	745	752	440
45°	581	590	618	650	666	447
55°	435	454	504	555	576	389
65°	285	310	384	447	475	278
75°	125	174	255	308	324	136
85°	30	46	62	67	67	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	919.0	919.0	919.0	919.0	919.0
2.5°	915.5	917.4	920.9	920.9	919.0
5°	912.0	913.7	919.0	919.0	917.4
7.5°	906.7	908.5	912.0	915.5	913.7
10°	899.7	901.3	905.0	908.5	908.5
12.5°	887.4	889.0	896.2	897.8	897.8
15°	875.0	878.5	883.9	887.4	889.0
17.5°	859.2	862.7	869.7	876.9	876.9
20°	843.4	846.9	855.7	862.7	864.5
22.5°	824.1	829.2	838.0	846.9	850.4
25°	804.5	809.9	818.7	829.2	832.7
27.5°	781.7	787.1	799.4	811.7	813.4
30°	758.9	764.0	779.9	790.5	795.9
32.5°	730.7	737.7	753.5	769.4	774.7
35°	704.2	711.2	728.9	744.7	751.7
37.5°	676.1	683.0	702.6	721.9	730.7
40°	644.4	653.2	676.1	697.2	709.6
42.5°	614.4	623.2	646.0	674.4	686.5
45°	581.1	589.7	617.9	649.7	665.6
47.5°	545.7	556.4	589.7	628.6	644.4
50°	510.6	522.9	559.9	603.9	621.6
52.5°	473.6	489.4	531.8	579.2	600.4
55°	434.9	454.3	503.6	554.6	575.7
57.5°	397.9	415.4	473.6	528.3	551.1
60°	357.5	380.3	445.4	501.7	526.4
62.5°	318.6	343.3	415.4	475.4	501.7
65°	285.3	309.8	383.8	447.3	475.4
67.5°	241.1	274.6	357.5	417.3	445.4
70°	197.1	243.0	323.9	385.6	411.9
72.5°	163.8	207.8	290.4	352.1	376.8
75°	125.0	174.3	255.3	308.1	323.9
77.5°	93.3	144.3	218.3	244.8	246.5
80°	68.7	111.0	165.5	174.3	181.3
82.5°	47.5	77.5	107.3	118.0	121.5
85°	30.0	45.8	61.7	66.8	66.8
87.5°	15.8	17.7	21.2	21.2	21.2
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)