

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: P842952

Luminaire Tested: **22CZ2-39HE-HRP-UNV-B50**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842952
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-B50
Description: 2X2 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Summary

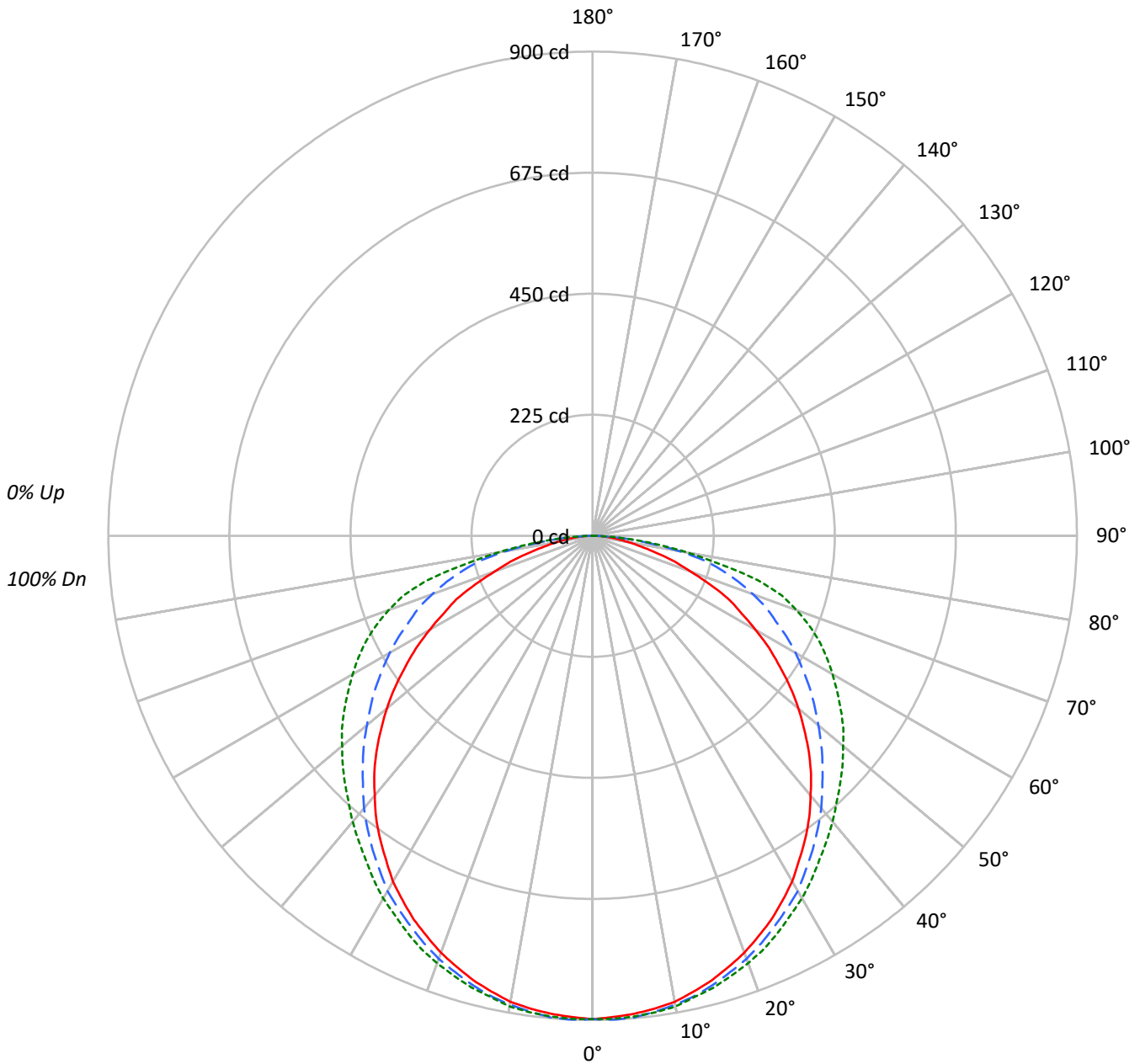
Lumens per Lamp: N/A
Luminaire Lumens: 2729.0 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 32
Input Voltage (V): NR
Input Current (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°	2550	2550	2550
5°	2540	2560	2555
10°	2535	2550	2560
15°	2513	2539	2554
20°	2490	2527	2553
25°	2463	2506	2549
30°	2431	2498	2550
35°	2385	2469	2546
40°	2334	2448	2570
45°	2280	2425	2612
50°	2204	2417	2683
55°	2104	2436	2785
60°	1983	2471	2921
65°	1873	2519	3121
70°	1599	2628	3342
75°	1340	2736	3473
80°	1096	2644	2897
85°	954	1963	2126



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.2	3.1
10°-20°	243.6	8.9
20°-30°	369.2	13.5
30°-40°	445.8	16.3
40°-50°	468.5	17.2
50°-60°	440.8	16.2
60°-70°	367.5	13.5
70°-80°	243.5	8.9
80°-90°	64.9	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°	698.0	25.6
0°-40°	1143.8	41.9
0°-60°	2053.1	75.2
0°-90°	2729.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2729.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	899	899	899	899	899	
5°	892	893	899	899	897	85
15°	856	859	864	868	869	241
25°	787	792	800	811	814	362
35°	689	695	713	728	735	431
45°	568	577	604	635	651	438
55°	425	444	492	542	563	380
65°	279	303	375	437	465	271
75°	122	170	250	301	317	133
85°	29	45	60	65	65	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	898.6	898.6	898.6	898.6	898.6
2.5°	895.2	897.0	900.4	900.4	898.6
5°	891.8	893.4	898.6	898.6	897.0
7.5°	886.5	888.4	891.8	895.2	893.4
10°	879.7	881.3	884.9	888.4	888.4
12.5°	867.7	869.3	876.3	877.9	877.9
15°	855.6	859.0	864.2	867.7	869.3
17.5°	840.1	843.5	850.4	857.4	857.4
20°	824.6	828.1	836.7	843.5	845.3
22.5°	805.7	810.8	819.4	828.1	831.5
25°	786.7	791.9	800.5	810.8	814.2
27.5°	764.3	769.6	781.6	793.7	795.3
30°	742.0	747.1	762.5	773.0	778.2
32.5°	714.5	721.3	736.8	752.3	757.5
35°	688.6	695.4	712.7	728.2	735.0
37.5°	661.0	667.9	687.0	705.9	714.5
40°	630.1	638.7	661.0	681.7	693.8
42.5°	600.7	609.4	631.7	659.4	671.3
45°	568.2	576.6	604.2	635.3	650.8
47.5°	533.6	544.1	576.6	614.6	630.1
50°	499.2	511.3	547.5	590.5	607.8
52.5°	463.1	478.5	519.9	566.4	587.1
55°	425.3	444.2	492.4	542.3	563.0
57.5°	389.1	406.2	463.1	516.5	538.8
60°	349.5	371.8	435.5	490.6	514.7
62.5°	311.5	335.6	406.2	464.9	490.6
65°	279.0	302.9	375.2	437.3	464.9
67.5°	235.8	268.5	349.5	408.0	435.5
70°	192.7	237.6	316.8	377.0	402.8
72.5°	160.2	203.2	284.0	344.3	368.4
75°	122.2	170.4	249.6	301.3	316.8
77.5°	91.2	141.1	213.4	239.4	241.0
80°	67.1	108.5	161.8	170.4	177.3
82.5°	46.4	75.8	104.9	115.4	118.8
85°	29.3	44.8	60.3	65.3	65.3
87.5°	15.5	17.3	20.7	20.7	20.7
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)