

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: P881112

Luminaire Tested: **22CZ2-39VHE-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: P881112
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: 22CZ2-39VHE-RDP-UNV-B50
Description: 2X2 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

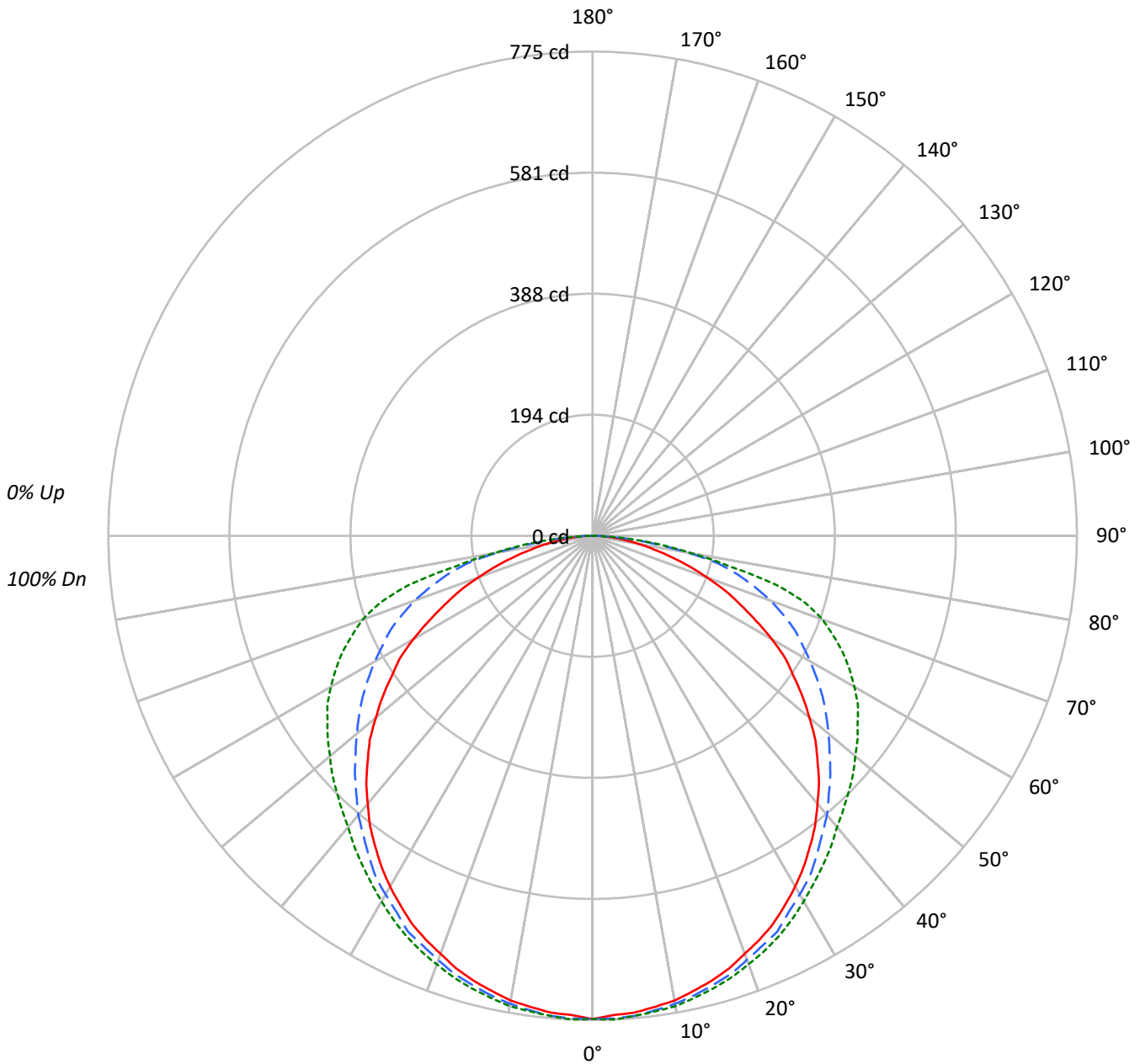
Lumens per Lamp: N/A
Luminaire Lumens: 2462.0 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	2195	2195	2195
5°	2182	2198	2198
10°	2176	2192	2202
15°	2166	2186	2202
20°	2149	2182	2204
25°	2143	2189	2212
30°	2124	2172	2214
35°	2101	2164	2227
40°	2073	2160	2254
45°	2042	2159	2325
50°	1999	2175	2422
55°	1944	2222	2562
60°	1881	2281	2744
65°	1750	2397	2967
70°	1608	2510	3246
75°	1411	2640	3356
80°	1214	2513	2636
85°	1061	1826	2002



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.2	3.0
10°-20°	210.0	8.5
20°-30°	320.5	13.0
30°-40°	391.3	15.9
40°-50°	418.4	17.0
50°-60°	403.8	16.4
60°-70°	347.6	14.1
70°-80°	235.2	9.6
80°-90°	62.1	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°	603.6	24.5
0°-40°	994.9	40.4
0°-60°	1817.1	73.8
0°-90°	2462.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2462.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	773	773	773	773	773	
5°	766	768	772	772	772	73
15°	737	739	744	748	750	208
25°	685	688	699	703	706	315
35°	607	612	625	637	643	380
45°	509	518	538	565	579	393
55°	393	406	449	494	518	352
65°	261	286	357	413	442	259
75°	129	170	241	290	306	138
85°	33	45	56	58	62	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	773.4	773.4	773.4	773.4	773.4
2.5°	767.9	769.6	773.4	773.4	775.1
5°	766.1	767.9	771.5	771.5	771.5
7.5°	760.6	762.5	766.1	767.9	767.9
10°	755.2	757.1	760.6	762.5	764.4
12.5°	746.2	747.9	753.3	757.1	757.1
15°	737.2	738.9	744.3	747.9	749.7
17.5°	726.1	729.9	735.3	738.9	740.7
20°	711.8	715.4	722.5	728.2	729.9
22.5°	699.1	702.8	710.0	715.4	719.0
25°	684.6	688.2	699.1	702.8	706.4
27.5°	666.5	670.2	679.2	686.3	691.8
30°	648.4	652.0	662.9	672.1	675.6
32.5°	628.4	633.8	646.6	653.9	659.1
35°	606.6	612.1	624.8	637.4	643.0
37.5°	585.0	590.5	603.1	619.4	626.7
40°	559.7	566.9	583.2	604.9	608.5
42.5°	536.1	545.1	559.7	585.0	594.0
45°	508.9	517.9	538.0	565.2	579.4
47.5°	483.6	492.6	514.3	547.0	565.2
50°	452.8	465.4	492.6	530.6	548.7
52.5°	423.7	434.6	471.0	512.5	534.4
55°	393.0	405.7	449.2	494.4	517.9
57.5°	366.0	376.6	425.6	476.4	503.4
60°	331.4	345.9	402.0	456.4	483.6
62.5°	295.1	317.0	378.5	434.6	463.5
65°	260.7	286.1	357.0	412.9	441.9
67.5°	230.0	257.2	329.8	389.4	416.6
70°	193.8	228.3	302.6	360.5	391.3
72.5°	161.3	199.2	271.8	329.8	357.0
75°	128.7	170.3	240.8	289.8	306.1
77.5°	99.6	139.6	206.3	221.0	222.8
80°	74.3	110.5	153.8	155.7	161.3
82.5°	50.8	77.8	99.6	108.6	110.5
85°	32.6	45.4	56.1	58.0	61.5
87.5°	14.6	16.3	19.9	18.2	18.2
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)