

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: P842964

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842964  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P271965)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-39HE-UNV-B50  
Description: 2X2 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RIBBED LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

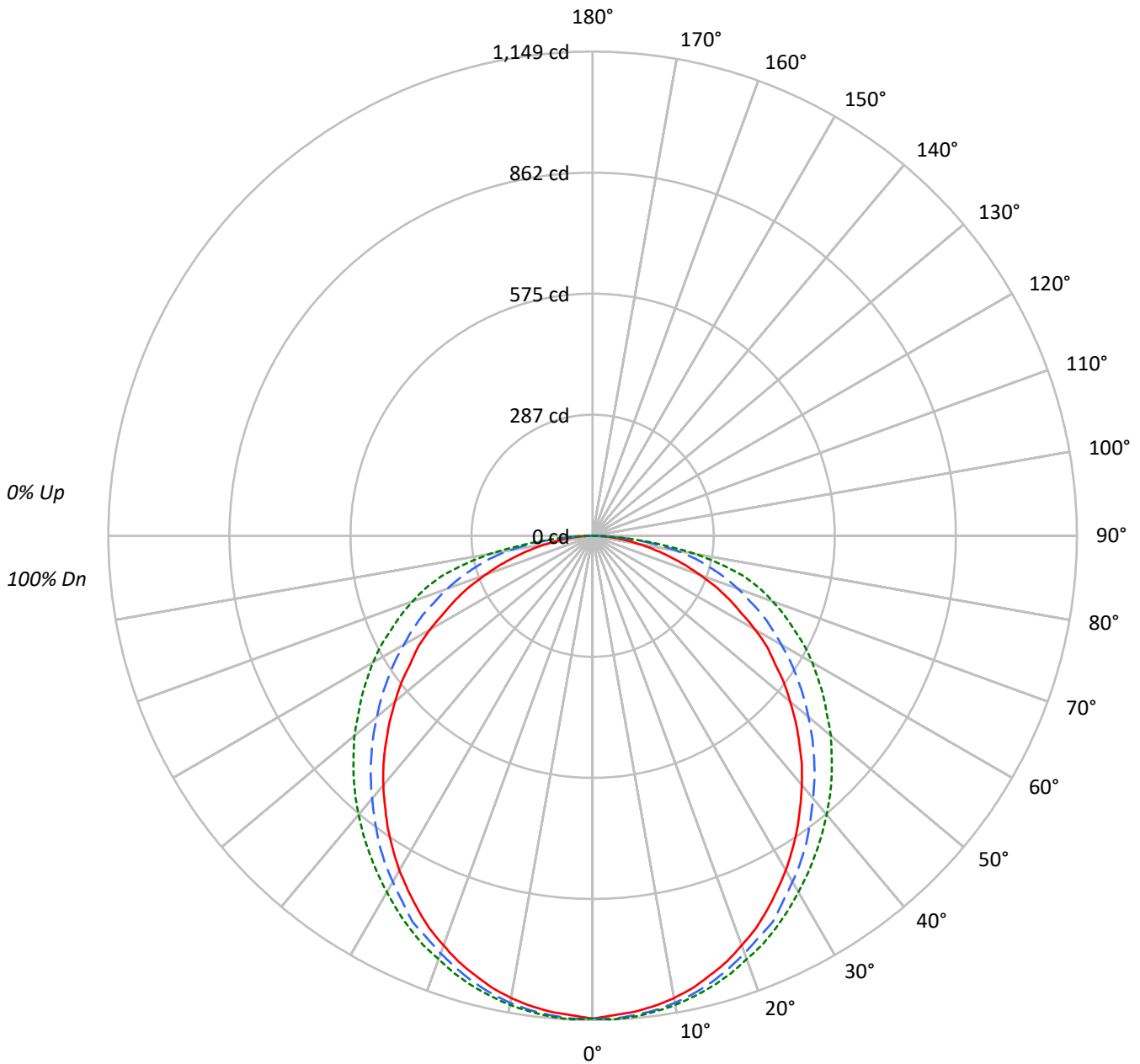
Lumens per Lamp: N/A  
Luminaire Lumens: 3369.0 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

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	86	84	82																			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68																			
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56																			
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48																			
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36																			
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32																			
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28																			
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25																			
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3250	3250	3250
5°	3230	3253	3263
10°	3209	3243	3257
15°	3170	3219	3248
20°	3124	3184	3229
25°	3067	3166	3218
30°	3004	3107	3200
35°	2934	3066	3193
40°	2861	3015	3199
45°	2781	2981	3220
50°	2700	2949	3257
55°	2608	2936	3313
60°	2531	2935	3415
65°	2404	2983	3540
70°	2243	3040	3769
75°	2055	3145	4072
80°	1789	3278	4008
85°	1566	2914	3187



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.3	3.2
10°-20°	308.6	9.2
20°-30°	463.2	13.7
30°-40°	553.5	16.4
40°-50°	575.6	17.1
50°-60°	533.5	15.8
60°-70°	437.6	13.0
70°-80°	295.8	8.8
80°-90°	93.0	2.8
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°	880.1	26.1
0°-40°	1433.6	42.6
0°-60°	2542.6	75.5
0°-90°	3369.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3369.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1146	1146	1146	1146	1146	
5°	1134	1136	1142	1144	1146	108
15°	1079	1084	1096	1102	1106	304
25°	980	988	1011	1023	1028	451
35°	847	859	885	912	922	529
45°	693	706	743	786	802	535
55°	527	544	594	646	670	474
65°	358	378	444	502	527	354
75°	187	219	287	345	371	199
85°	48	66	90	100	98	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1145.5	1145.5	1145.5	1145.5	1145.5
2.5°	1138.9	1142.1	1147.1	1148.9	1148.9
5°	1133.9	1135.5	1142.1	1143.9	1145.5
7.5°	1125.5	1128.9	1135.5	1137.3	1138.9
10°	1113.9	1117.3	1125.5	1128.9	1130.5
12.5°	1099.1	1102.3	1112.3	1117.3	1118.9
15°	1079.2	1084.2	1095.8	1102.3	1105.7
17.5°	1059.4	1064.2	1076.0	1085.8	1089.2
20°	1034.4	1046.0	1054.4	1067.6	1069.2
22.5°	1009.6	1016.2	1031.0	1044.4	1051.0
25°	979.7	988.1	1011.2	1022.8	1027.8
27.5°	948.3	959.9	978.1	996.3	1002.9
30°	916.8	924.9	948.3	969.7	976.5
32.5°	882.0	893.6	918.4	939.9	949.9
35°	847.0	858.6	885.2	911.8	921.7
37.5°	809.1	822.3	848.8	880.2	893.6
40°	772.5	782.5	813.9	852.0	863.6
42.5°	734.4	745.9	779.1	820.7	833.8
45°	693.0	706.2	742.8	785.7	802.3
47.5°	653.1	666.4	706.2	749.3	769.1
50°	611.7	628.3	668.0	717.8	737.8
52.5°	571.9	586.9	631.7	683.0	701.2
55°	527.2	543.8	593.5	646.5	669.6
57.5°	490.6	502.2	557.0	611.7	634.9
60°	445.9	460.9	517.2	575.1	601.7
62.5°	397.9	422.7	480.7	540.4	567.0
65°	358.0	378.0	444.3	502.2	527.2
67.5°	316.6	338.2	402.7	464.3	492.4
70°	270.3	298.5	366.4	427.7	454.3
72.5°	228.7	258.7	328.2	388.0	416.1
75°	187.4	218.8	286.9	344.8	371.4
77.5°	147.6	182.4	248.7	293.5	310.0
80°	109.5	142.6	200.6	232.1	245.3
82.5°	76.3	104.5	147.6	164.2	167.4
85°	48.1	66.3	89.5	99.5	97.9
87.5°	21.6	26.6	33.2	36.6	34.8
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)