

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: P842871

Luminaire Tested: **14CZ2-39-SQR-UNV-B50**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842871
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387389)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-39-SQR-UNV-B50
Description: 1X4 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

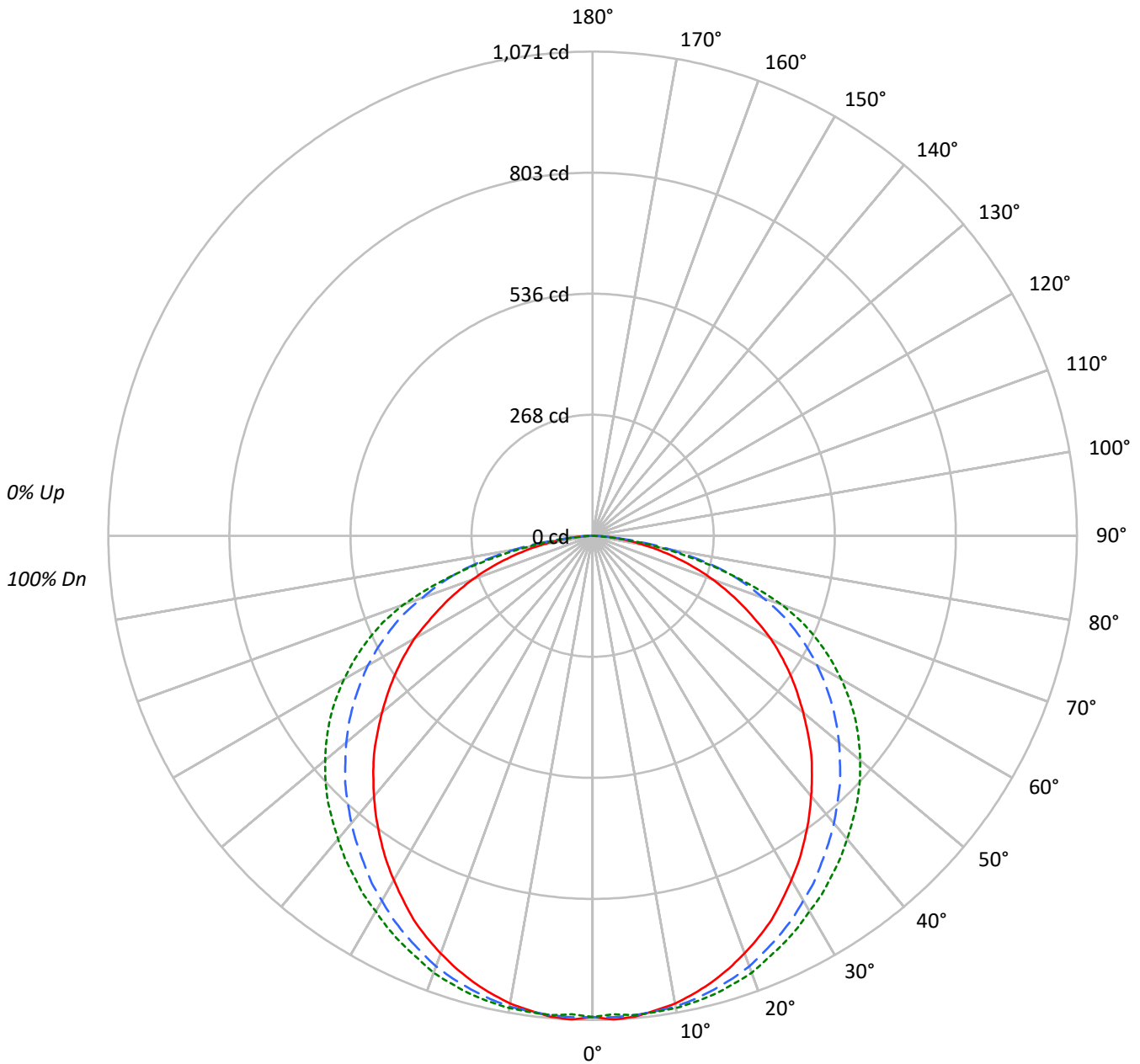
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3368.0 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 31
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	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83																			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	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	68	59	52	79	67	59	52	65	57	51	62	56	51	60	54	50	48																			
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41																			
6	68	55	45	39	67	54	45	39	52	44	38	50	43	38	49	42	38	35																			
7	63	49	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28																			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25																			
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3004	3004	3004
5°	3025	3016	3016
10°	3012	3031	3041
15°	2986	3036	3066
20°	2952	3044	3090
25°	2918	3040	3104
30°	2866	3038	3126
35°	2819	3041	3170
40°	2771	3058	3227
45°	2731	3090	3306
50°	2669	3123	3391
55°	2623	3175	3492
60°	2568	3239	3584
65°	2449	3299	3674
70°	2325	3305	3670
75°	2129	3296	3239
80°	1821	2814	2511
85°	1431	1593	936



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.2	3.0
10°-20°	292.2	8.7
20°-30°	446.8	13.3
30°-40°	547.7	16.3
40°-50°	589.0	17.5
50°-60°	566.0	16.8
60°-70°	471.3	14.0
70°-80°	289.3	8.6
80°-90°	64.4	1.9
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°	840.2	24.9
0°-40°	1387.9	41.2
0°-60°	2542.9	75.5
0°-90°	3368.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3368.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1064	1064	1064	1064	1064	
5°	1068	1058	1064	1064	1064	101
15°	1022	1019	1039	1046	1049	288
25°	937	945	976	988	996	431
35°	818	839	883	906	920	512
45°	684	715	774	810	828	526
55°	533	579	645	689	710	476
65°	367	423	494	535	550	363
75°	195	255	302	300	297	207
85°	44	66	49	34	29	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1064.4	1064.4	1064.4	1064.4	1064.4
2.5°	1071.0	1060.9	1066.1	1064.4	1059.2
5°	1067.7	1057.6	1064.4	1064.4	1064.4
7.5°	1059.2	1050.8	1060.9	1062.6	1062.6
10°	1050.8	1044.0	1057.6	1059.2	1060.9
12.5°	1037.1	1032.0	1049.1	1052.4	1055.7
15°	1021.9	1018.6	1038.8	1045.6	1049.1
17.5°	1003.3	1004.9	1027.0	1035.5	1038.8
20°	982.8	988.0	1013.4	1021.9	1028.7
22.5°	960.7	967.5	994.8	1004.9	1011.7
25°	937.0	945.4	976.0	988.0	996.5
27.5°	908.0	921.7	955.8	971.0	979.5
30°	879.3	894.6	932.0	950.6	959.1
32.5°	850.4	867.4	909.9	928.5	942.1
35°	818.2	838.6	882.6	906.4	920.0
37.5°	786.0	809.7	857.2	884.3	899.6
40°	751.9	777.5	830.0	860.5	875.8
42.5°	718.0	746.9	801.3	835.1	852.1
45°	684.1	714.7	774.0	809.7	828.3
47.5°	645.1	682.5	741.8	782.5	801.3
50°	607.7	648.4	711.2	753.7	772.3
52.5°	570.3	612.9	679.0	723.2	741.8
55°	532.9	578.8	645.1	689.1	709.5
57.5°	493.9	541.4	609.4	655.2	673.8
60°	454.8	504.2	573.8	616.2	634.8
62.5°	409.0	466.8	534.8	577.1	594.1
65°	366.6	422.6	493.9	534.8	550.1
67.5°	324.3	381.9	451.5	488.9	502.4
70°	281.7	339.6	400.5	436.3	444.7
72.5°	239.4	297.0	354.9	375.1	371.8
75°	195.2	254.7	302.2	300.5	297.0
77.5°	152.9	210.5	239.4	227.4	222.5
80°	112.0	168.1	173.1	161.3	154.5
82.5°	76.4	120.4	108.7	95.0	88.2
85°	44.2	66.1	49.2	33.9	28.9
87.5°	18.6	16.9	5.2	5.2	3.3
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)