

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: P842870

Luminaire Tested: **14CZ2-39-SQR-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842870
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-B40
Description: 1X4 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

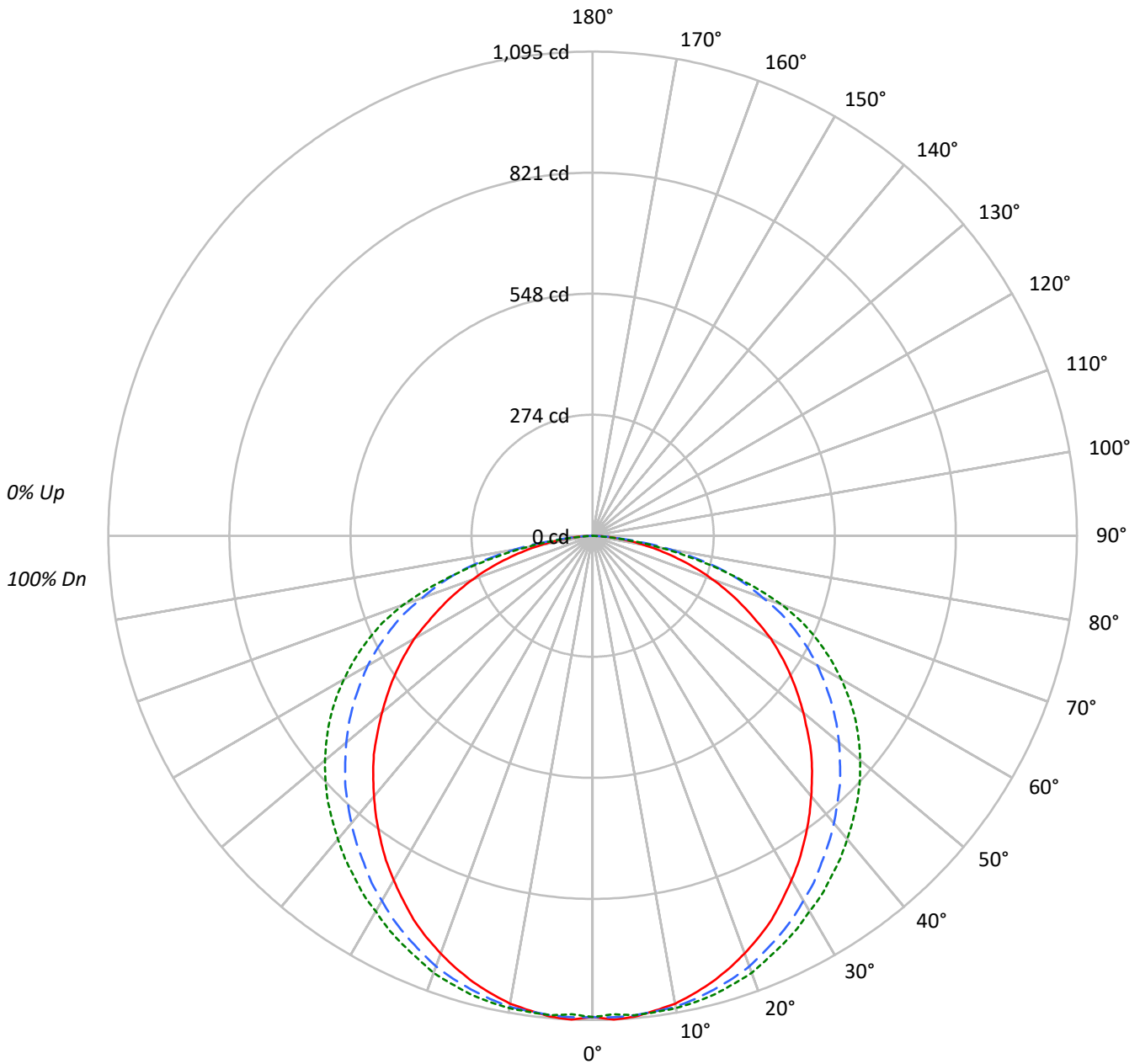
Lumens per Lamp: N/A
Luminaire Lumens: 3444.0 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	3072	3072	3072
5°	3094	3084	3084
10°	3080	3100	3109
15°	3053	3104	3135
20°	3019	3113	3160
25°	2984	3108	3173
30°	2931	3106	3196
35°	2883	3110	3242
40°	2833	3127	3300
45°	2793	3159	3381
50°	2729	3193	3468
55°	2682	3246	3570
60°	2626	3313	3664
65°	2504	3373	3757
70°	2378	3380	3753
75°	2177	3370	3312
80°	1861	2877	2568
85°	1464	1629	959



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.4	3.0
10°-20°	298.8	8.7
20°-30°	456.9	13.3
30°-40°	560.1	16.3
40°-50°	602.3	17.5
50°-60°	578.8	16.8
60°-70°	482.0	14.0
70°-80°	295.8	8.6
80°-90°	65.9	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°	859.1	24.9
0°-40°	1419.2	41.2
0°-60°	2600.3	75.5
0°-90°	3444.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3444.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1088	1088	1088	1088	1088	
5°	1092	1082	1088	1088	1088	104
15°	1045	1042	1062	1069	1073	295
25°	958	967	998	1010	1019	441
35°	837	858	903	927	941	524
45°	700	731	791	828	847	538
55°	545	592	660	705	726	487
65°	375	432	505	547	562	371
75°	200	260	309	307	304	211
85°	45	68	50	35	30	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1088.4	1088.4	1088.4	1088.4	1088.4
2.5°	1095.2	1084.8	1090.1	1088.4	1083.1
5°	1091.8	1081.5	1088.4	1088.4	1088.4
7.5°	1083.1	1074.5	1084.8	1086.5	1086.5
10°	1074.5	1067.5	1081.5	1083.1	1084.8
12.5°	1060.5	1055.3	1072.8	1076.2	1079.6
15°	1044.9	1041.5	1062.2	1069.2	1072.8
17.5°	1025.9	1027.6	1050.2	1058.9	1062.2
20°	1005.0	1010.3	1036.3	1044.9	1051.9
22.5°	982.4	989.4	1017.2	1027.6	1034.6
25°	958.1	966.8	998.0	1010.3	1018.9
27.5°	928.5	942.5	977.3	993.0	1001.6
30°	899.2	914.8	953.0	972.0	980.7
32.5°	869.6	886.9	930.4	949.4	963.4
35°	836.7	857.6	902.6	926.8	940.8
37.5°	803.7	828.0	876.6	904.2	919.9
40°	768.8	795.0	848.7	880.0	895.6
42.5°	734.2	763.8	819.3	854.0	871.3
45°	699.6	730.8	791.4	828.0	847.0
47.5°	659.6	697.9	758.5	800.1	819.3
50°	621.4	663.0	727.2	770.8	789.8
52.5°	583.2	626.7	694.3	739.5	758.5
55°	545.0	591.8	659.6	704.6	725.5
57.5°	505.0	553.6	623.1	670.0	689.0
60°	465.1	515.6	586.8	630.1	649.1
62.5°	418.2	477.4	546.9	590.2	607.5
65°	374.9	432.2	505.0	546.9	562.5
67.5°	331.6	390.5	461.7	500.0	513.7
70°	288.1	347.2	409.6	446.1	454.8
72.5°	244.8	303.7	362.9	383.6	380.2
75°	199.6	260.4	309.0	307.3	303.7
77.5°	156.3	215.2	244.8	232.6	227.5
80°	114.5	171.9	177.0	165.0	158.0
82.5°	78.2	123.1	111.1	97.2	90.2
85°	45.2	67.6	50.3	34.6	29.6
87.5°	19.0	17.3	5.3	5.3	3.4
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)