

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: P842885

Luminaire Tested: **14CZ2-44-SQR-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842885
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: 14CZ2-44-SQR-UNV-B40
Description: 1X4 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

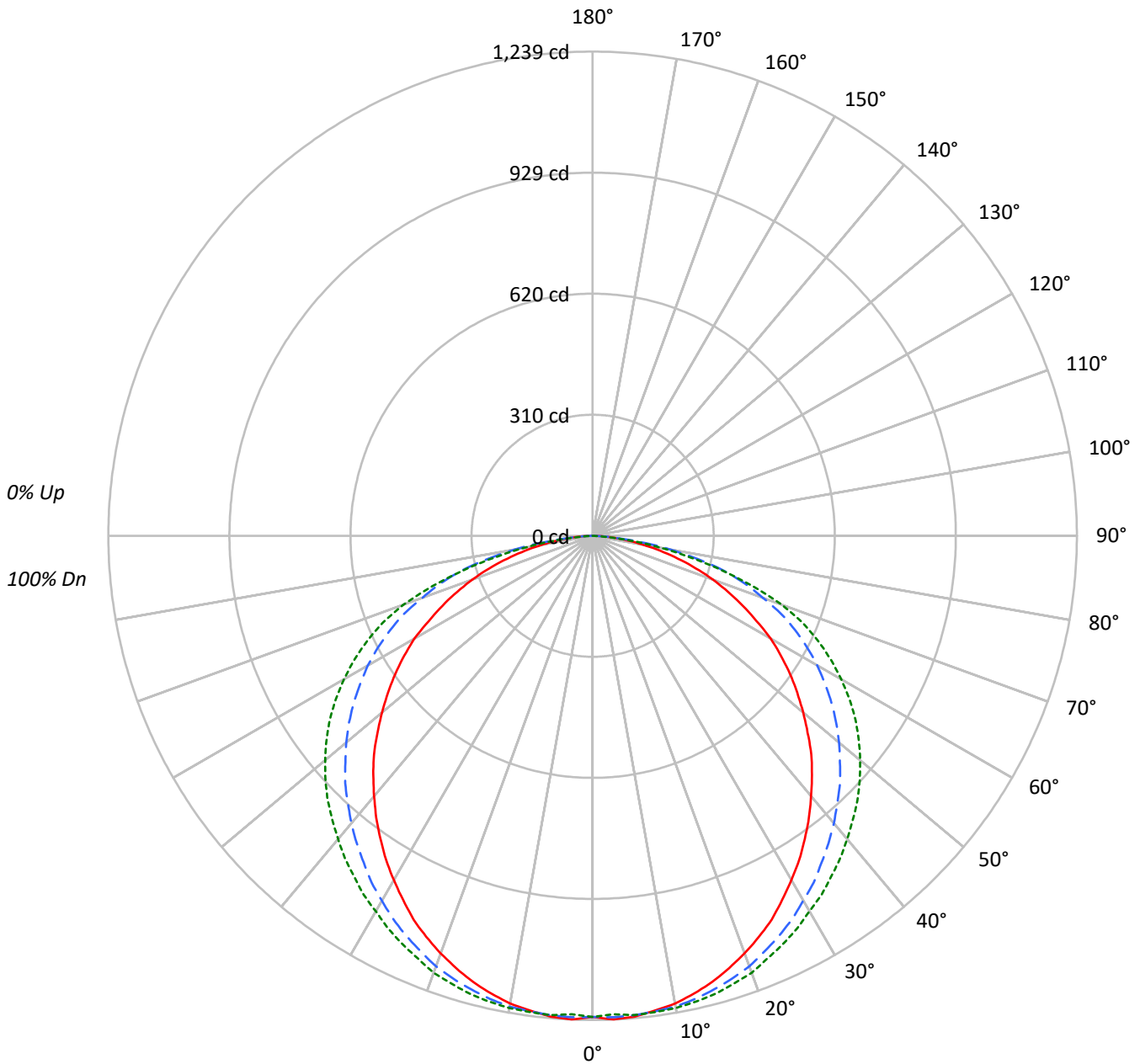
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3896.0 lumens
Efficiency: N/A
Efficacy: 108.2 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): 36
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°	3476	3476	3476
5°	3500	3489	3489
10°	3484	3507	3517
15°	3454	3511	3546
20°	3415	3521	3574
25°	3375	3516	3590
30°	3315	3514	3616
35°	3262	3518	3667
40°	3205	3538	3733
45°	3159	3574	3825
50°	3087	3613	3923
55°	3034	3672	4039
60°	2971	3747	4145
65°	2833	3816	4250
70°	2690	3824	4245
75°	2463	3813	3747
80°	2105	3254	2905
85°	1655	1843	1085



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.0	3.0
10°-20°	338.0	8.7
20°-30°	516.9	13.3
30°-40°	633.6	16.3
40°-50°	681.4	17.5
50°-60°	654.8	16.8
60°-70°	545.2	14.0
70°-80°	334.7	8.6
80°-90°	74.5	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°	971.9	24.9
0°-40°	1605.4	41.2
0°-60°	2941.6	75.5
0°-90°	3896.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3896.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1231	1231	1231	1231	1231	
5°	1235	1223	1231	1231	1231	117
15°	1182	1178	1202	1210	1214	333
25°	1084	1094	1129	1143	1153	499
35°	946	970	1021	1048	1064	592
45°	791	827	895	937	958	609
55°	616	670	746	797	821	551
65°	424	489	571	619	636	420
75°	226	295	350	348	344	239
85°	51	76	57	39	34	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1231.3	1231.3	1231.3	1231.3	1231.3
2.5°	1238.9	1227.2	1233.2	1231.3	1225.3
5°	1235.1	1223.4	1231.3	1231.3	1231.3
7.5°	1225.3	1215.5	1227.2	1229.1	1229.1
10°	1215.5	1207.6	1223.4	1225.3	1227.2
12.5°	1199.7	1193.8	1213.6	1217.4	1221.2
15°	1182.1	1178.2	1201.6	1209.5	1213.6
17.5°	1160.5	1162.5	1188.0	1197.8	1201.6
20°	1136.9	1142.9	1172.3	1182.1	1189.9
22.5°	1111.3	1119.2	1150.8	1162.5	1170.3
25°	1083.8	1093.6	1129.0	1142.9	1152.7
27.5°	1050.4	1066.2	1105.6	1123.3	1133.1
30°	1017.2	1034.9	1078.1	1099.6	1109.4
32.5°	983.7	1003.3	1052.5	1074.1	1089.8
35°	946.5	970.1	1021.0	1048.5	1064.3
37.5°	909.2	936.7	991.6	1022.9	1040.6
40°	869.8	899.4	960.1	995.4	1013.1
42.5°	830.6	864.0	926.9	966.0	985.6
45°	791.4	826.7	895.3	936.7	958.2
47.5°	746.2	789.5	858.0	905.1	926.9
50°	703.0	750.0	822.7	871.9	893.4
52.5°	659.7	708.9	785.4	836.5	858.0
55°	616.5	669.5	746.2	797.1	820.8
57.5°	571.3	626.3	704.9	757.9	779.4
60°	526.2	583.3	663.8	712.8	734.3
62.5°	473.1	540.0	618.6	667.6	687.2
65°	424.1	488.9	571.3	618.6	636.3
67.5°	375.1	441.8	522.3	565.6	581.1
70°	325.9	392.8	463.3	504.6	514.4
72.5°	276.9	343.6	410.5	433.9	430.1
75°	225.8	294.6	349.6	347.7	343.6
77.5°	176.8	243.5	276.9	263.1	257.3
80°	129.5	194.5	200.2	186.6	178.7
82.5°	88.4	139.3	125.7	109.9	102.0
85°	51.1	76.5	56.9	39.2	33.5
87.5°	21.5	19.6	6.0	6.0	3.8
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)