

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: P731902

Luminaire Tested: **14CZ2-39-S-B2750-W2D-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731902  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275670)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-39-S-B2750-W2D-3000K  
Description: 1X4 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

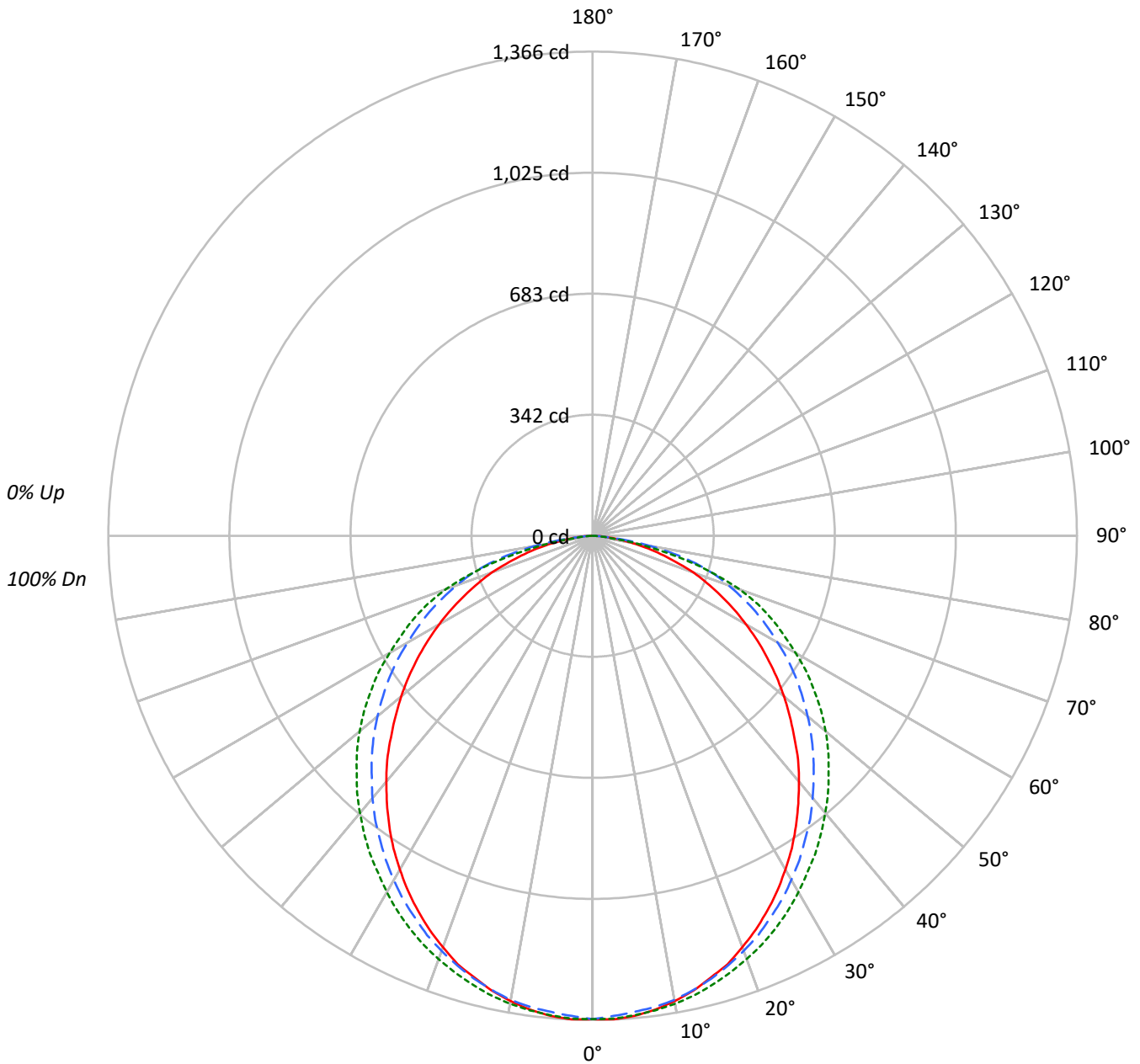
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3820.0 lumens  
Efficiency: N/A  
Efficacy: 123.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36  
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<sub>in</sub>): 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	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84																			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70																			
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58																			
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50																			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43																			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38																			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33																			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30																			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27																			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24																			

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

	0°	45°	90°
0°	3849	3849	3849
5°	3854	3821	3848
10°	3822	3811	3843
15°	3769	3780	3830
20°	3709	3744	3818
25°	3634	3698	3805
30°	3543	3654	3784
35°	3446	3603	3772
40°	3336	3559	3762
45°	3213	3516	3758
50°	3094	3476	3768
55°	2964	3449	3756
60°	2823	3400	3732
65°	2657	3390	3732
70°	2501	3361	3626
75°	2169	3285	3098
80°	1754	2648	2063
85°	1166	917	615



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.8	3.4
10°-20°	366.4	9.6
20°-30°	549.7	14.4
30°-40°	655.7	17.2
40°-50°	677.8	17.7
50°-60°	618.9	16.2
60°-70°	487.0	12.7
70°-80°	283.5	7.4
80°-90°	52.2	1.4
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°	1044.9	27.4
0°-40°	1700.5	44.5
0°-60°	2997.2	78.5
0°-90°	3820.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3820.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1364	1364	1364	1364	1364	
5°	1360	1356	1349	1360	1358	129
15°	1290	1292	1294	1310	1310	364
25°	1167	1172	1188	1216	1222	537
35°	1000	1013	1046	1085	1095	625
45°	805	832	881	930	941	622
55°	602	634	701	752	763	539
65°	398	439	508	548	559	395
75°	199	246	301	295	284	211
85°	36	51	28	23	19	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1363.7	1363.7	1363.7	1363.7	1363.7
2.5°	1365.5	1361.8	1356.0	1365.5	1363.7
5°	1360.0	1356.0	1348.6	1360.0	1357.9
7.5°	1348.6	1344.7	1340.9	1352.3	1350.5
10°	1333.3	1331.4	1329.6	1342.8	1340.9
12.5°	1314.5	1314.5	1312.6	1327.7	1327.7
15°	1289.9	1291.7	1293.6	1310.5	1310.5
17.5°	1267.1	1265.3	1270.9	1289.9	1291.7
20°	1234.9	1238.6	1246.3	1269.0	1270.9
22.5°	1202.6	1206.6	1219.8	1242.5	1248.1
25°	1166.7	1172.5	1187.5	1215.9	1221.7
27.5°	1128.8	1136.5	1157.1	1187.5	1193.1
30°	1087.1	1098.4	1121.2	1155.3	1161.1
32.5°	1045.5	1056.9	1085.2	1119.3	1127.0
35°	1000.0	1013.3	1045.5	1085.2	1094.7
37.5°	952.7	969.6	1007.7	1047.4	1058.7
40°	905.3	924.4	965.9	1007.7	1020.9
42.5°	858.0	877.0	922.3	969.6	983.1
45°	804.8	831.5	880.7	929.9	941.3
47.5°	753.8	782.3	837.1	886.3	901.6
50°	704.6	732.9	791.6	842.9	858.0
52.5°	653.5	683.7	746.1	799.3	812.5
55°	602.2	634.5	700.9	751.9	763.3
57.5°	551.2	585.3	653.5	702.7	716.0
60°	500.1	536.1	602.2	651.4	661.0
62.5°	448.8	486.7	554.9	598.5	608.0
65°	397.8	439.3	507.6	547.5	558.8
67.5°	348.6	390.1	456.5	494.3	503.8
70°	303.1	340.9	407.3	435.6	439.3
72.5°	246.2	293.6	357.9	373.2	363.7
75°	198.9	246.2	301.2	295.4	284.1
77.5°	151.5	198.9	234.9	215.8	200.7
80°	107.9	155.3	162.9	134.4	126.9
82.5°	70.1	107.9	91.0	70.1	56.9
85°	36.0	51.1	28.3	22.7	19.0
87.5°	11.4	7.7	3.7	3.7	1.9
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)