

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: P731906

Luminaire Tested: **14CZ2-39-SQR-B2750-W2D-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731906  
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-B2750-W2D-2700K  
Description: 1X4 3900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

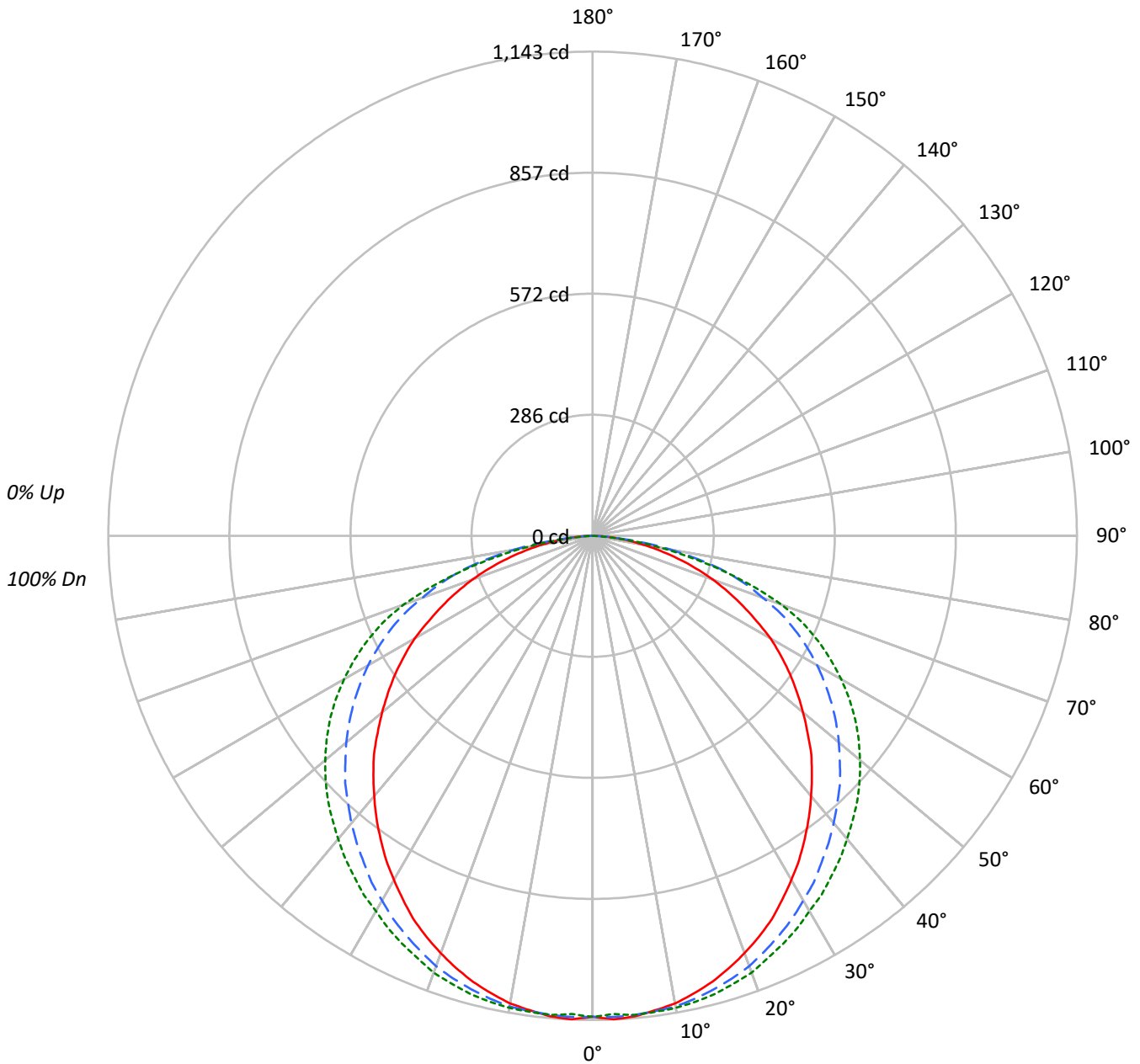
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3593.0 lumens  
Efficiency: N/A  
Efficacy: 115.9 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<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	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°	3205	3205	3205
5°	3227	3217	3217
10°	3213	3234	3244
15°	3186	3238	3271
20°	3150	3247	3296
25°	3113	3243	3311
30°	3058	3241	3335
35°	3008	3245	3382
40°	2956	3262	3443
45°	2913	3296	3527
50°	2847	3332	3618
55°	2798	3387	3725
60°	2739	3456	3823
65°	2612	3519	3919
70°	2481	3526	3915
75°	2271	3516	3456
80°	1941	3002	2679
85°	1529	1697	1001



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.9	3.0
10°-20°	311.7	8.7
20°-30°	476.7	13.3
30°-40°	584.3	16.3
40°-50°	628.4	17.5
50°-60°	603.9	16.8
60°-70°	502.8	14.0
70°-80°	308.6	8.6
80°-90°	68.7	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°	896.3	24.9
0°-40°	1480.6	41.2
0°-60°	2712.8	75.5
0°-90°	3593.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3593.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1136	1136	1136	1136	1136	
5°	1139	1128	1136	1136	1136	108
15°	1090	1087	1108	1116	1119	307
25°	1000	1009	1041	1054	1063	460
35°	873	895	942	967	982	546
45°	730	762	826	864	884	562
55°	568	618	688	735	757	508
65°	391	451	527	570	587	388
75°	208	272	322	321	317	221
85°	47	70	52	36	31	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1135.5	1135.5	1135.5	1135.5	1135.5
2.5°	1142.6	1131.8	1137.3	1135.5	1130.0
5°	1139.0	1128.2	1135.5	1135.5	1135.5
7.5°	1130.0	1121.0	1131.8	1133.5	1133.5
10°	1121.0	1113.7	1128.2	1130.0	1131.8
12.5°	1106.4	1100.9	1119.2	1122.7	1126.3
15°	1090.1	1086.6	1108.2	1115.5	1119.2
17.5°	1070.3	1072.1	1095.6	1104.7	1108.2
20°	1048.5	1054.0	1081.1	1090.1	1097.4
22.5°	1024.9	1032.2	1061.3	1072.1	1079.3
25°	999.6	1008.6	1041.2	1054.0	1063.0
27.5°	968.7	983.2	1019.6	1035.9	1044.9
30°	938.1	954.4	994.3	1014.1	1023.1
32.5°	907.2	925.3	970.7	990.5	1005.1
35°	872.8	894.7	941.6	966.9	981.5
37.5°	838.5	863.8	914.5	943.4	959.7
40°	802.1	829.4	885.4	918.0	934.3
42.5°	766.0	796.8	854.8	890.9	909.0
45°	729.8	762.4	825.7	863.8	883.6
47.5°	688.2	728.1	791.3	834.7	854.8
50°	648.3	691.7	758.7	804.1	823.9
52.5°	608.4	653.8	724.3	771.5	791.3
55°	568.5	617.5	688.2	735.1	756.9
57.5°	526.9	577.6	650.1	699.0	718.8
60°	485.2	537.9	612.2	657.3	677.2
62.5°	436.3	498.0	570.5	615.7	633.8
65°	391.1	450.9	526.9	570.5	586.8
67.5°	346.0	407.4	481.7	521.6	535.9
70°	300.6	362.3	427.3	465.4	474.4
72.5°	255.4	316.9	378.6	400.2	396.6
75°	208.2	271.7	322.4	320.6	316.9
77.5°	163.1	224.5	255.4	242.6	237.3
80°	119.4	179.4	184.7	172.1	164.8
82.5°	81.5	128.5	115.9	101.4	94.1
85°	47.2	70.5	52.4	36.1	30.9
87.5°	19.8	18.1	5.5	5.5	3.5
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)