

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: P731935

Luminaire Tested: **14CZ2-44-SQR-B2750-W2D-5000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731935  
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-B2750-W2D-5000K  
Description: 1X4 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

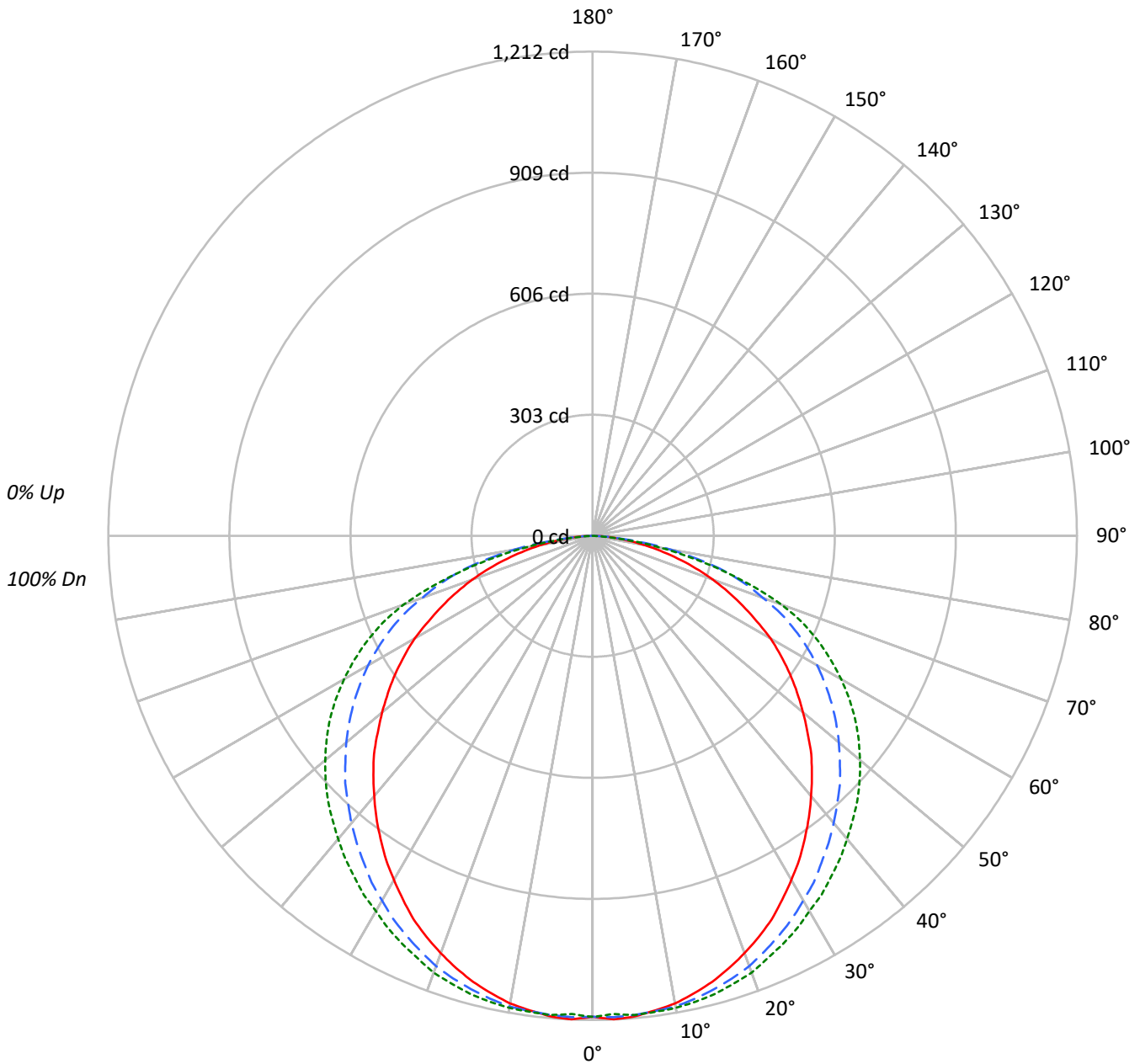
Lumens per Lamp: N/A  
Luminaire Lumens: 3810.0 lumens  
Efficiency: N/A  
Efficacy: 105.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 36  
Input Voltage (V): NR  
Input Current (A<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				20				
RC	80				70				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°	3399	3399	3399
5°	3422	3412	3412
10°	3407	3429	3440
15°	3378	3434	3468
20°	3340	3444	3496
25°	3301	3439	3511
30°	3242	3436	3536
35°	3189	3441	3586
40°	3134	3460	3651
45°	3089	3495	3740
50°	3019	3533	3837
55°	2967	3591	3950
60°	2905	3664	4054
65°	2770	3732	4156
70°	2630	3739	4152
75°	2408	3729	3664
80°	2058	3183	2841
85°	1619	1801	1059



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.4	3.0
10°-20°	330.5	8.7
20°-30°	505.5	13.3
30°-40°	619.6	16.3
40°-50°	666.3	17.5
50°-60°	640.3	16.8
60°-70°	533.2	14.0
70°-80°	327.3	8.6
80°-90°	72.9	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°	950.4	24.9
0°-40°	1570.0	41.2
0°-60°	2876.6	75.5
0°-90°	3810.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3810.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1204	1204	1204	1204	1204	
5°	1208	1196	1204	1204	1204	115
15°	1156	1152	1175	1183	1187	326
25°	1060	1070	1104	1118	1127	488
35°	926	949	998	1025	1041	579
45°	774	808	876	916	937	596
55°	603	655	730	780	803	539
65°	415	478	559	605	622	411
75°	221	288	342	340	336	234
85°	50	75	56	38	33	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1204.1	1204.1	1204.1	1204.1	1204.1
2.5°	1211.6	1200.1	1206.0	1204.1	1198.3
5°	1207.8	1196.4	1204.1	1204.1	1204.1
7.5°	1198.3	1188.7	1200.1	1202.0	1202.0
10°	1188.7	1181.0	1196.4	1198.3	1200.1
12.5°	1173.3	1167.4	1186.8	1190.5	1194.3
15°	1156.0	1152.2	1175.1	1182.8	1186.8
17.5°	1134.9	1136.8	1161.8	1171.4	1175.1
20°	1111.8	1117.6	1146.4	1156.0	1163.7
22.5°	1086.8	1094.5	1125.4	1136.8	1144.5
25°	1059.9	1069.5	1104.1	1117.6	1127.2
27.5°	1027.2	1042.6	1081.2	1098.5	1108.1
30°	994.7	1012.0	1054.3	1075.3	1084.9
32.5°	962.0	981.2	1029.3	1050.3	1065.8
35°	925.6	948.7	998.5	1025.3	1040.8
37.5°	889.1	916.0	969.7	1000.3	1017.6
40°	850.6	879.5	938.9	973.5	990.8
42.5°	812.2	844.9	906.4	944.7	963.9
45°	773.9	808.5	875.6	916.0	937.0
47.5°	729.7	772.0	839.1	885.1	906.4
50°	687.5	733.5	804.5	852.7	873.7
52.5°	645.2	693.3	768.1	818.1	839.1
55°	602.9	654.7	729.7	779.5	802.7
57.5°	558.7	612.4	689.3	741.2	762.2
60°	514.5	570.4	649.1	697.0	718.1
62.5°	462.7	528.1	605.0	652.9	672.0
65°	414.8	478.1	558.7	605.0	622.3
67.5°	366.9	432.1	510.8	553.1	568.3
70°	318.7	384.2	453.1	493.5	503.1
72.5°	270.8	336.0	401.4	424.3	420.6
75°	220.8	288.1	341.9	340.0	336.0
77.5°	172.9	238.1	270.8	257.3	251.7
80°	126.6	190.2	195.8	182.5	174.8
82.5°	86.5	136.2	122.9	107.5	99.8
85°	50.0	74.8	55.6	38.3	32.7
87.5°	21.0	19.2	5.8	5.8	3.7
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)