

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: P731933

Luminaire Tested: **14CZ2-44-SQR-B2750-W2D-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731933  
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-3500K  
Description: 1X4 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

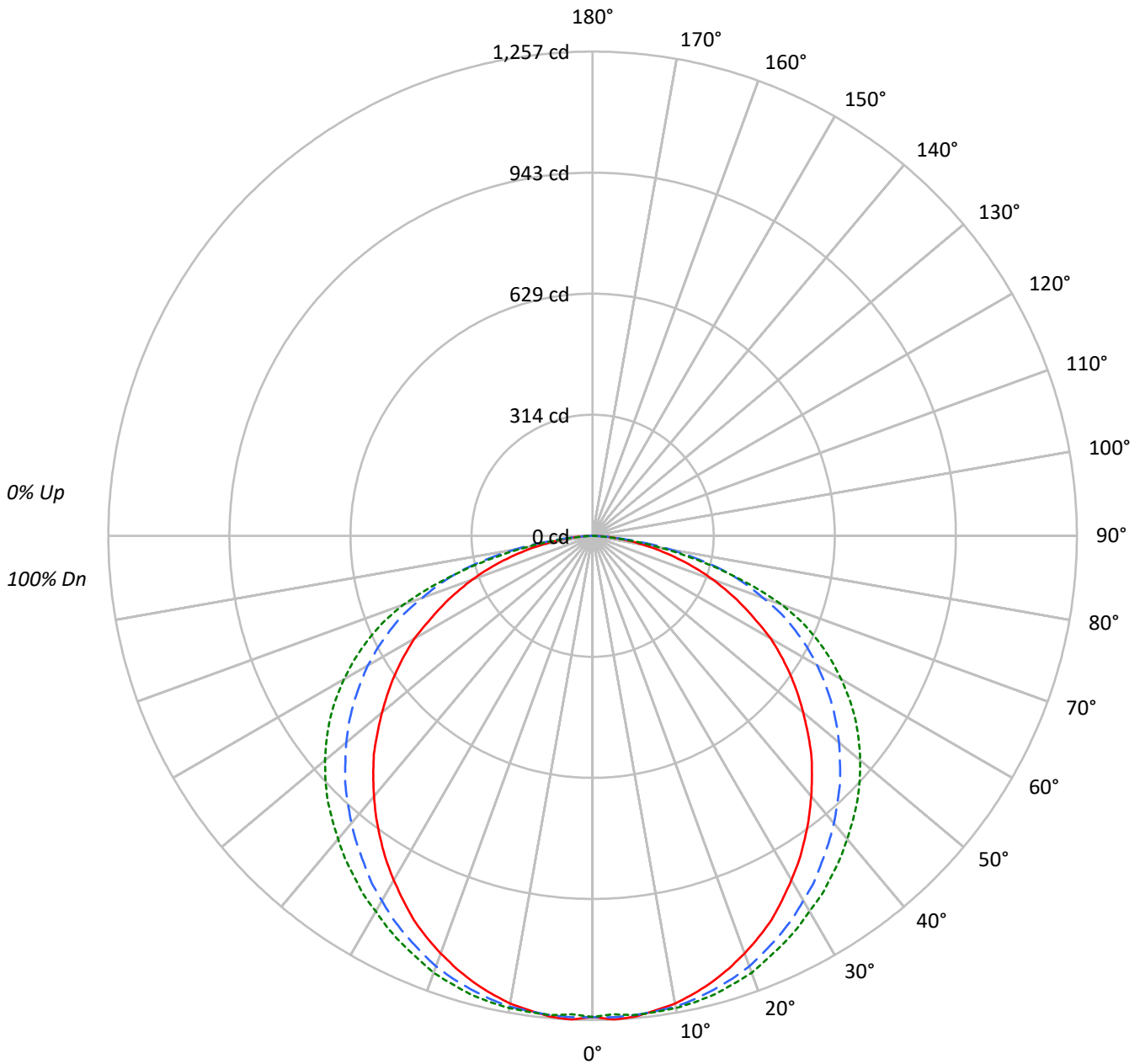
Lumens per Lamp: N/A  
Luminaire Lumens: 3953.0 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P731933

CATALOG NUMBER: 14CZ2-44-SQR-B2750-W2D-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P731933

CATALOG NUMBER: 14CZ2-44-SQR-B2750-W2D-3500K

**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°	3526	3526	3526
5°	3551	3540	3540
10°	3535	3558	3569
15°	3505	3563	3598
20°	3465	3573	3627
25°	3425	3568	3642
30°	3364	3565	3669
35°	3309	3570	3721
40°	3252	3589	3788
45°	3205	3626	3881
50°	3132	3665	3981
55°	3078	3726	4098
60°	3014	3802	4206
65°	2874	3872	4312
70°	2729	3880	4308
75°	2499	3868	3802
80°	2136	3303	2947
85°	1681	1869	1098



TEST NUMBER: P731933

CATALOG NUMBER: 14CZ2-44-SQR-B2750-W2D-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.7	3.0
10°-20°	342.9	8.7
20°-30°	524.5	13.3
30°-40°	642.8	16.3
40°-50°	691.3	17.5
50°-60°	664.4	16.8
60°-70°	553.2	14.0
70°-80°	339.5	8.6
80°-90°	75.6	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°	986.1	24.9
0°-40°	1628.9	41.2
0°-60°	2984.6	75.5
0°-90°	3953.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3953.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1249	1249	1249	1249	1249	
5°	1253	1241	1249	1249	1249	119
15°	1199	1196	1219	1227	1231	338
25°	1100	1110	1146	1160	1170	506
35°	960	984	1036	1064	1080	601
45°	803	839	908	950	972	618
55°	626	679	757	809	833	559
65°	430	496	580	628	646	426
75°	229	299	355	353	349	243
85°	52	78	58	40	34	62
90°	0	0	0	0	0	



TEST NUMBER: P731933

CATALOG NUMBER: 14CZ2-44-SQR-B2750-W2D-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1249.3	1249.3	1249.3	1249.3	1249.3
2.5°	1257.0	1245.2	1251.2	1249.3	1243.2
5°	1253.2	1241.3	1249.3	1249.3	1249.3
7.5°	1243.2	1233.3	1245.2	1247.1	1247.1
10°	1233.3	1225.3	1241.3	1243.2	1245.2
12.5°	1217.3	1211.2	1231.4	1235.2	1239.1
15°	1199.3	1195.5	1219.2	1227.2	1231.4
17.5°	1177.5	1179.5	1205.4	1215.3	1219.2
20°	1153.5	1159.6	1189.4	1199.3	1207.3
22.5°	1127.6	1135.6	1167.6	1179.5	1187.5
25°	1099.7	1109.6	1145.5	1159.6	1169.5
27.5°	1065.8	1081.8	1121.8	1139.7	1149.6
30°	1032.1	1050.0	1093.9	1115.7	1125.6
32.5°	998.1	1018.0	1067.9	1089.8	1105.8
35°	960.3	984.3	1035.9	1063.8	1079.8
37.5°	922.5	950.4	1006.1	1037.9	1055.8
40°	882.5	912.5	974.1	1010.0	1027.9
42.5°	842.7	876.7	940.4	980.2	1000.1
45°	803.0	838.8	908.4	950.4	972.2
47.5°	757.1	801.0	870.6	918.4	940.4
50°	713.3	761.0	834.7	884.7	906.5
52.5°	669.4	719.3	796.9	848.8	870.6
55°	625.5	679.3	757.1	808.8	832.8
57.5°	579.7	635.4	715.2	769.0	790.8
60°	533.9	591.8	673.5	723.2	745.0
62.5°	480.0	547.9	627.7	677.4	697.3
65°	430.3	496.0	579.7	627.7	645.6
67.5°	380.6	448.3	530.0	573.9	589.6
70°	330.7	398.6	470.1	512.0	522.0
72.5°	281.0	348.6	416.5	440.3	436.4
75°	229.1	298.9	354.7	352.7	348.6
77.5°	179.4	247.0	281.0	266.9	261.1
80°	131.4	197.3	203.2	189.3	181.3
82.5°	89.7	141.3	127.5	111.5	103.5
85°	51.9	77.6	57.7	39.8	33.9
87.5°	21.8	19.9	6.1	6.1	3.9
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)