

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: P731931

Luminaire Tested: **14CZ2-44-SQR-B2750-W2D-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731931  
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-2700K  
Description: 1X4 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

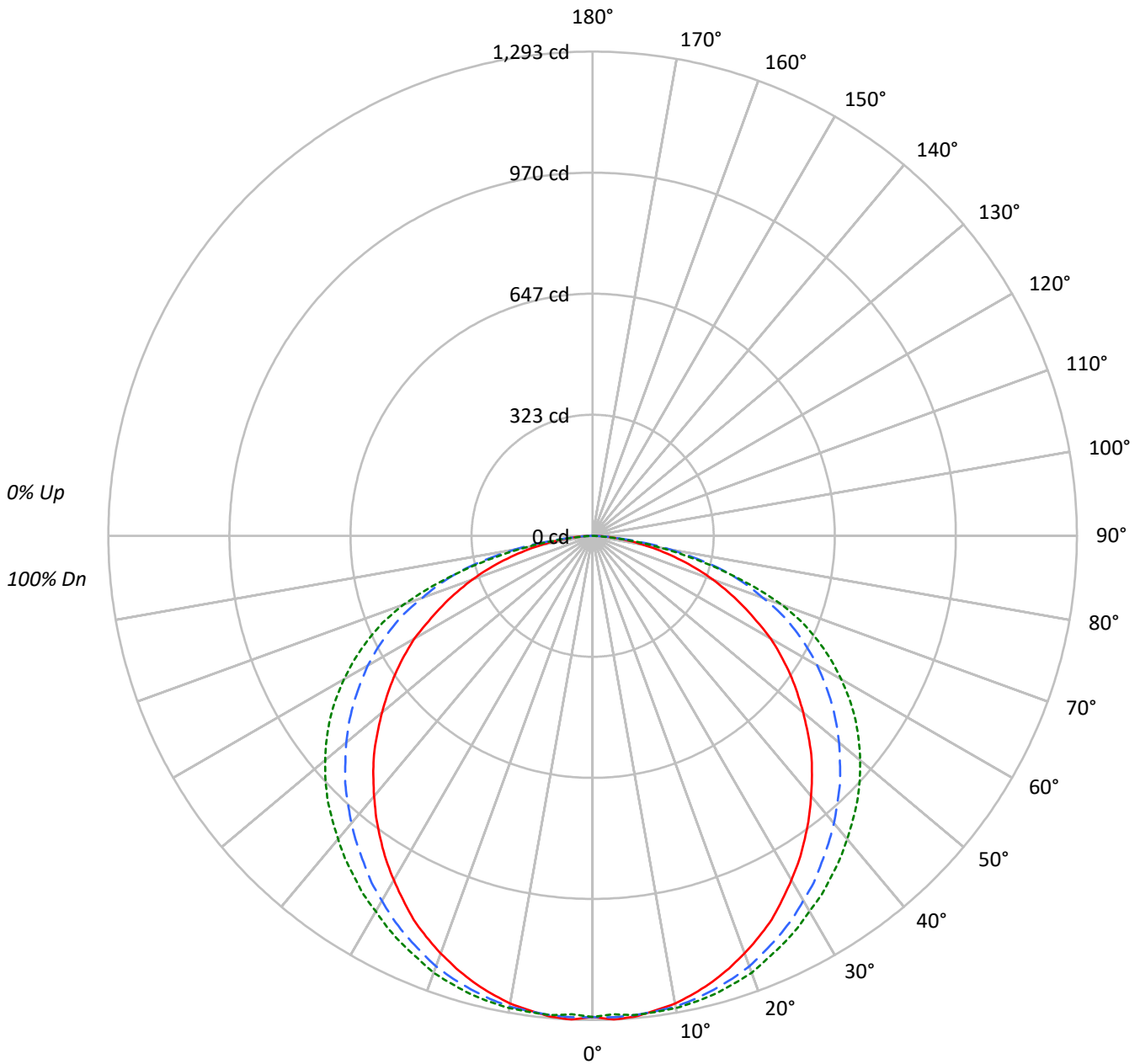
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4066.0 lumens  
Efficiency: N/A  
Efficacy: 112.9 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): 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									
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°	3627	3627	3627
5°	3652	3641	3641
10°	3636	3660	3671
15°	3605	3665	3701
20°	3564	3675	3730
25°	3523	3670	3747
30°	3460	3667	3774
35°	3404	3672	3827
40°	3345	3692	3896
45°	3297	3730	3992
50°	3221	3770	4094
55°	3166	3833	4215
60°	3100	3911	4326
65°	2956	3982	4436
70°	2807	3990	4431
75°	2571	3979	3911
80°	2198	3397	3032
85°	1729	1924	1130



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.1	3.0
10°-20°	352.7	8.7
20°-30°	539.4	13.3
30°-40°	661.2	16.3
40°-50°	711.1	17.5
50°-60°	683.3	16.8
60°-70°	569.0	14.0
70°-80°	349.3	8.6
80°-90°	77.8	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°	1014.3	24.9
0°-40°	1675.5	41.2
0°-60°	3069.9	75.5
0°-90°	4066.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4066.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1285	1285	1285	1285	1285	
5°	1289	1277	1285	1285	1285	122
15°	1234	1230	1254	1262	1266	348
25°	1131	1141	1178	1193	1203	520
35°	988	1012	1066	1094	1111	618
45°	826	863	934	978	1000	636
55°	643	699	779	832	857	575
65°	443	510	596	646	664	439
75°	236	308	365	363	359	250
85°	53	80	59	41	35	64
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1293.0	1280.8	1287.0	1285.0	1278.8
5°	1289.0	1276.8	1285.0	1285.0	1285.0
7.5°	1278.8	1268.5	1280.8	1282.8	1282.8
10°	1268.5	1260.3	1276.8	1278.8	1280.8
12.5°	1252.1	1245.9	1266.5	1270.5	1274.5
15°	1233.6	1229.6	1254.1	1262.3	1266.5
17.5°	1211.2	1213.2	1239.9	1250.1	1254.1
20°	1186.5	1192.7	1223.4	1233.6	1241.9
22.5°	1159.8	1168.0	1201.0	1213.2	1221.4
25°	1131.1	1141.4	1178.3	1192.7	1203.0
27.5°	1096.2	1112.7	1153.8	1172.3	1182.5
30°	1061.6	1080.0	1125.2	1147.6	1157.8
32.5°	1026.7	1047.1	1098.5	1120.9	1137.4
35°	987.8	1012.4	1065.6	1094.2	1110.7
37.5°	948.9	977.5	1034.9	1067.6	1086.0
40°	907.7	938.6	1002.0	1038.9	1057.3
42.5°	866.8	901.7	967.3	1008.2	1028.7
45°	825.9	862.8	934.4	977.5	1000.0
47.5°	778.8	823.9	895.5	944.6	967.3
50°	733.6	782.8	858.6	910.0	932.4
52.5°	688.5	739.9	819.7	873.0	895.5
55°	643.4	698.7	778.8	831.9	856.6
57.5°	596.2	653.6	735.6	791.0	813.4
60°	549.1	608.7	692.7	743.9	766.3
62.5°	493.8	563.6	645.6	696.7	717.2
65°	442.6	510.2	596.2	645.6	664.1
67.5°	391.5	461.1	545.1	590.3	606.5
70°	340.1	410.0	483.5	526.7	536.9
72.5°	289.0	358.6	428.4	452.9	448.9
75°	235.7	307.5	364.8	362.8	358.6
77.5°	184.5	254.1	289.0	274.6	268.6
80°	135.2	203.0	209.0	194.8	186.5
82.5°	92.3	145.4	131.2	114.7	106.5
85°	53.4	79.8	59.4	40.9	34.9
87.5°	22.4	20.4	6.2	6.2	4.0
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)