

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: P732206

Luminaire Tested: **24CZ2-40-SQR-B2750-W2D-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732206  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P388488)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-40-SQR-B2750-W2D-2700K  
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

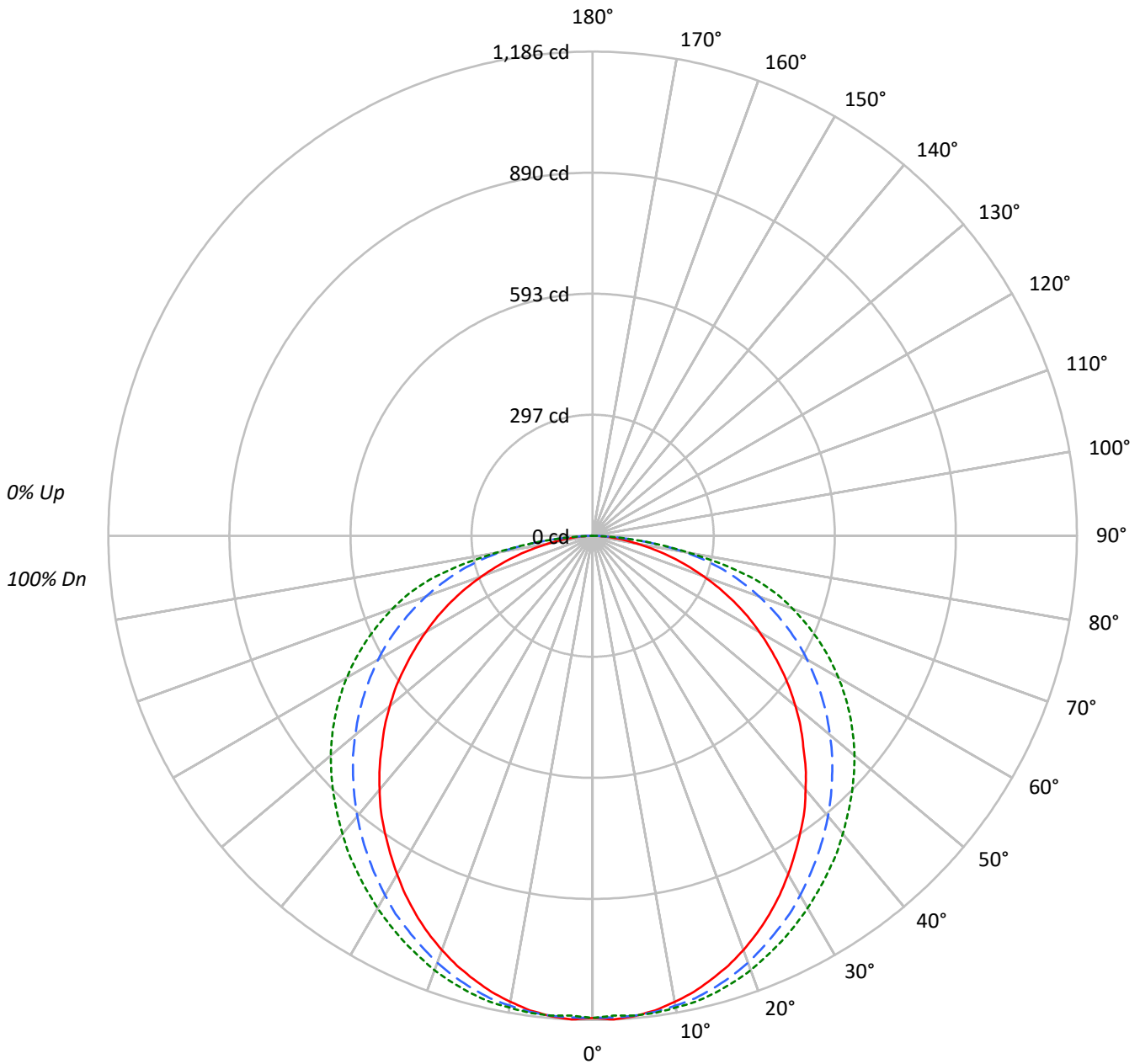
Lumens per Lamp: N/A  
Luminaire Lumens: 3695.0 lumens  
Efficiency: N/A  
Efficacy: 119.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82																			
2	98	89	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67																			
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47																			
5	74	61	51	44	72	60	51	44	57	50	44	55	49	43	54	48	43	41																			
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35																			
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	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°	1667	1667	1667
5°	1673	1672	1672
10°	1661	1675	1682
15°	1644	1676	1694
20°	1622	1671	1701
25°	1594	1663	1706
30°	1561	1656	1716
35°	1528	1652	1732
40°	1495	1652	1756
45°	1456	1656	1790
50°	1423	1666	1838
55°	1381	1685	1894
60°	1333	1712	1963
65°	1275	1744	2046
70°	1183	1788	2150
75°	1072	1850	2249
80°	902	1855	1934
85°	691	1402	1402



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.1	3.0
10°-20°	322.6	8.7
20°-30°	490.0	13.3
30°-40°	596.0	16.1
40°-50°	634.5	17.2
50°-60°	604.3	16.4
60°-70°	505.4	13.7
70°-80°	337.0	9.1
80°-90°	93.2	2.5
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°	924.6	25.0
0°-40°	1520.6	41.2
0°-60°	2759.5	74.7
0°-90°	3695.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3695.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1181	1181	1181	1181	1181	
5°	1181	1174	1180	1180	1180	112
15°	1125	1127	1147	1156	1159	317
25°	1024	1037	1068	1086	1096	471
35°	887	913	959	991	1005	555
45°	730	769	830	876	897	564
55°	561	610	685	744	770	502
65°	382	438	522	587	613	377
75°	196	259	339	397	412	208
85°	43	79	87	86	87	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1181.0	1181.0	1181.0	1181.0	1181.0
2.5°	1186.0	1177.4	1181.0	1181.0	1176.3
5°	1181.0	1173.7	1179.9	1179.9	1179.9
7.5°	1172.6	1166.4	1176.3	1178.7	1178.7
10°	1159.2	1156.8	1169.0	1172.6	1173.7
12.5°	1144.6	1143.3	1160.4	1165.2	1169.0
15°	1124.9	1127.4	1146.9	1155.5	1159.2
17.5°	1104.3	1109.0	1131.1	1143.3	1146.9
20°	1079.9	1087.2	1112.9	1124.9	1132.4
22.5°	1053.1	1064.0	1090.8	1105.4	1114.0
25°	1023.7	1037.1	1067.7	1085.9	1095.7
27.5°	992.0	1009.1	1044.5	1065.1	1075.0
30°	957.8	977.3	1016.4	1040.9	1053.1
32.5°	922.4	945.6	988.4	1015.2	1029.8
35°	887.0	912.7	959.0	990.8	1005.3
37.5°	851.7	877.2	928.6	962.7	981.1
40°	811.4	841.9	896.9	934.6	953.0
42.5°	772.4	805.2	863.9	905.3	924.9
45°	729.6	768.8	829.6	876.1	896.9
47.5°	690.6	729.6	795.6	844.4	867.5
50°	647.9	689.3	758.9	812.7	837.1
52.5°	606.4	649.2	722.3	779.7	804.1
55°	561.3	610.0	684.6	744.3	769.9
57.5°	516.1	568.6	645.4	707.7	733.4
60°	472.2	525.8	606.4	668.7	695.5
62.5°	428.3	481.9	566.1	629.5	655.2
65°	381.8	438.0	522.2	586.9	612.6
67.5°	335.5	394.0	478.3	542.9	567.4
70°	286.7	349.0	433.2	496.6	521.1
72.5°	241.7	303.8	386.8	449.1	472.2
75°	196.5	258.6	339.2	396.6	412.4
77.5°	152.5	214.7	286.7	324.6	328.2
80°	111.0	169.7	228.2	239.1	237.9
82.5°	74.4	126.9	157.5	158.6	162.2
85°	42.7	79.3	86.6	85.5	86.6
87.5°	17.1	28.1	24.4	18.2	18.2
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)