

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: P843049

Luminaire Tested: **24CZ2-40-SQR-UNV-B35**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P843049  
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-UNV-B35  
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

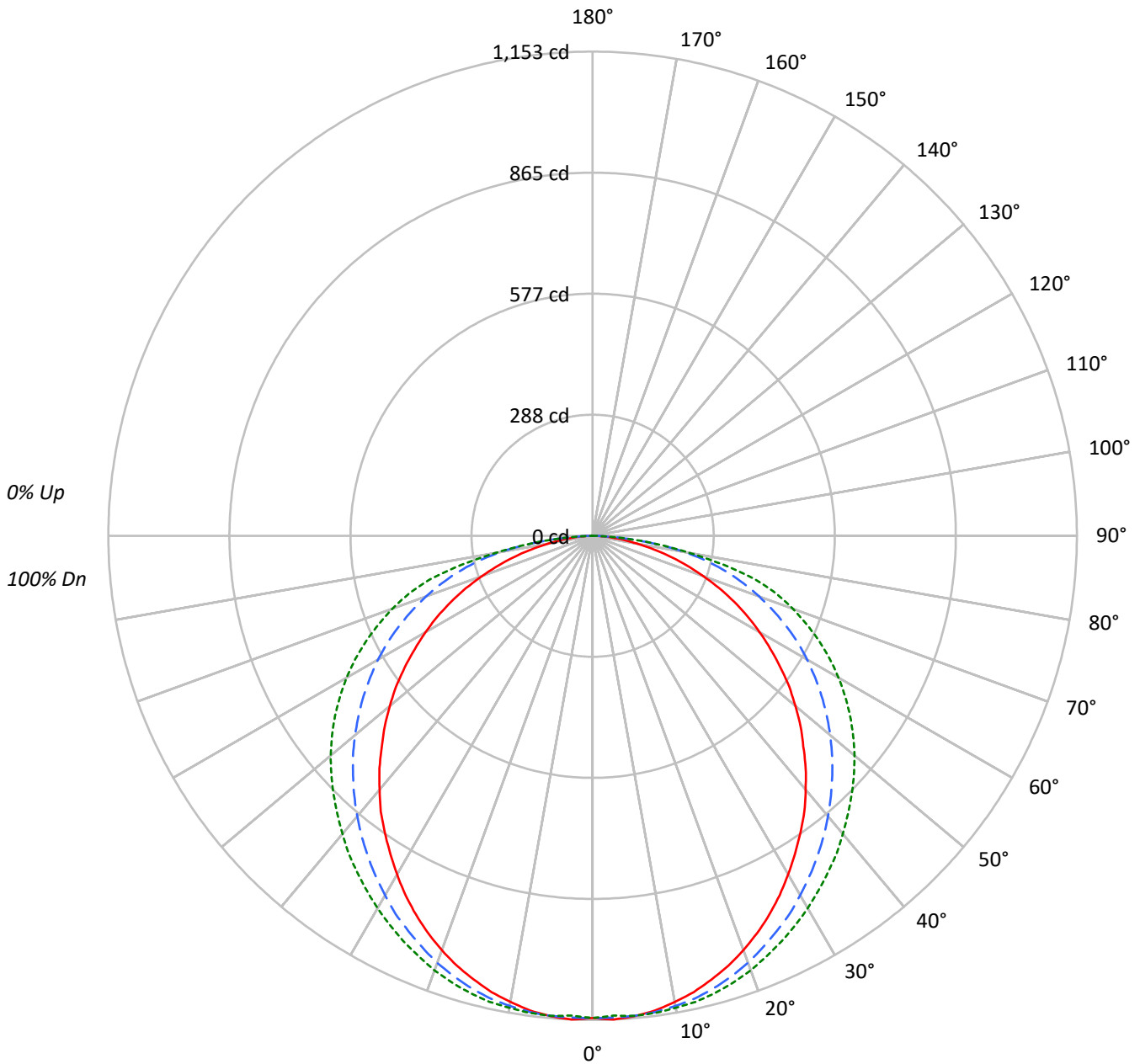
Lumens per Lamp: N/A  
Luminaire Lumens: 3593.0 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	1621	1621	1621
5°	1627	1626	1626
10°	1615	1629	1636
15°	1598	1630	1647
20°	1577	1625	1654
25°	1550	1617	1659
30°	1518	1611	1669
35°	1486	1607	1684
40°	1454	1607	1707
45°	1416	1610	1741
50°	1383	1620	1787
55°	1343	1638	1842
60°	1296	1664	1909
65°	1240	1696	1989
70°	1150	1738	2091
75°	1042	1798	2187
80°	877	1804	1880
85°	672	1363	1363



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.0	3.0
10°-20°	313.7	8.7
20°-30°	476.4	13.3
30°-40°	579.5	16.1
40°-50°	617.0	17.2
50°-60°	587.7	16.4
60°-70°	491.4	13.7
70°-80°	327.7	9.1
80°-90°	90.6	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°	899.1	25.0
0°-40°	1478.6	41.2
0°-60°	2683.3	74.7
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°	1148	1148	1148	1148	1148	
5°	1148	1141	1147	1147	1147	109
15°	1094	1096	1115	1124	1127	309
25°	996	1008	1038	1056	1066	458
35°	863	888	933	963	978	540
45°	709	748	807	852	872	548
55°	546	593	666	724	749	488
65°	371	426	508	571	596	367
75°	191	252	330	386	401	202
85°	42	77	84	83	84	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1148.4	1148.4	1148.4	1148.4	1148.4
2.5°	1153.2	1144.9	1148.4	1148.4	1143.8
5°	1148.4	1141.3	1147.4	1147.4	1147.4
7.5°	1140.3	1134.2	1143.8	1146.1	1146.1
10°	1127.2	1124.8	1136.7	1140.3	1141.3
12.5°	1113.0	1111.7	1128.4	1133.0	1136.7
15°	1093.8	1096.3	1115.3	1123.6	1127.2
17.5°	1073.8	1078.4	1099.9	1111.7	1115.3
20°	1050.1	1057.2	1082.1	1093.8	1101.1
22.5°	1024.0	1034.6	1060.7	1074.9	1083.2
25°	995.5	1008.4	1038.2	1055.9	1065.5
27.5°	964.6	981.3	1015.7	1035.7	1045.3
30°	931.3	950.3	988.4	1012.1	1024.0
32.5°	896.9	919.5	961.1	987.1	1001.3
35°	862.6	887.5	932.6	963.4	977.6
37.5°	828.2	853.0	903.0	936.1	954.0
40°	789.0	818.6	872.1	908.8	926.7
42.5°	751.1	783.0	840.0	880.3	899.4
45°	709.4	747.5	806.7	851.9	872.1
47.5°	671.5	709.4	773.6	821.1	843.6
50°	630.0	670.3	738.0	790.2	814.0
52.5°	589.6	631.3	702.4	758.2	781.9
55°	545.8	593.2	665.7	723.8	748.6
57.5°	501.9	552.9	627.6	688.2	713.1
60°	459.2	511.3	589.6	650.2	676.3
62.5°	416.5	468.6	550.5	612.1	637.1
65°	371.3	425.9	507.8	570.7	595.7
67.5°	326.3	383.2	465.0	528.0	551.7
70°	278.8	339.4	421.3	482.9	506.7
72.5°	235.0	295.4	376.1	436.7	459.2
75°	191.0	251.5	329.8	385.6	401.1
77.5°	148.3	208.8	278.8	315.6	319.2
80°	107.9	165.0	221.9	232.5	231.3
82.5°	72.3	123.4	153.1	154.2	157.7
85°	41.5	77.1	84.2	83.1	84.2
87.5°	16.7	27.3	23.7	17.7	17.7
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)