

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: P685669

Luminaire Tested: **4CZL-5-UNV-LVR-L840-CD-U**

Issue Date: 05/10/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P685669  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 05/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4CZL-5-UNV-LVR-L840-CD-U  
Description: METALUX CRUZE LINEAR 4FT LOUVER MODEL @80 CRI and 4000K  
Light Source: (392) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

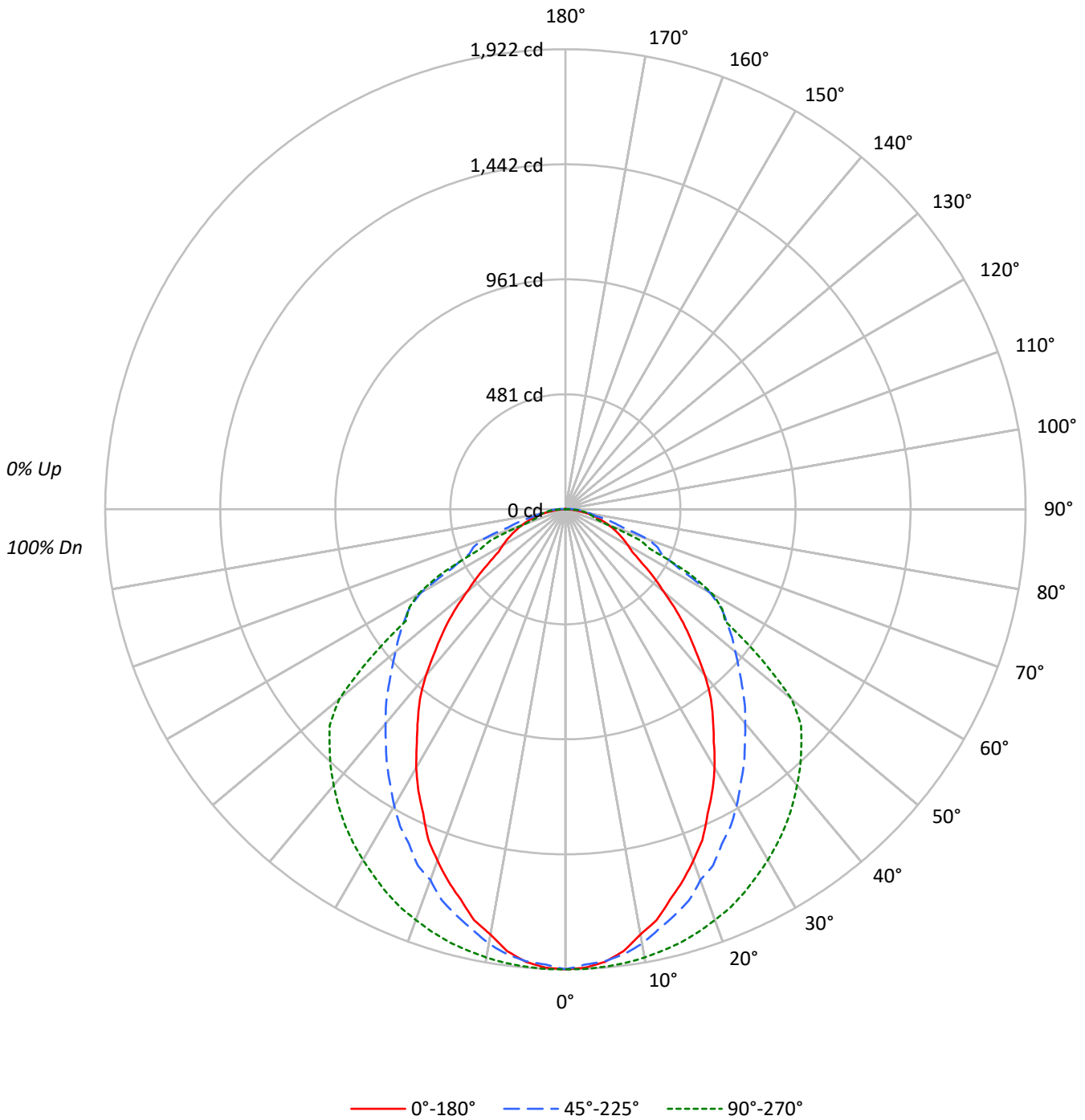
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4352.3 lumens  
Efficiency: N/A  
Efficacy: 140.4 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.31 / 1.26  
Luminous Opening: Rectangular (W 0.83' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 31  
Input Voltage (V): 120  
Input Current (Ain): 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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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.0	4.1
10°-20°	499.0	11.5
20°-30°	722.0	16.6
30°-40°	824.0	18.9
40°-50°	809.7	18.6
50°-60°	645.8	14.8
60°-70°	406.8	9.3
70°-80°	180.2	4.1
80°-90°	69.1	1.6
90°-100°	13.7	0.3
100°-110°	0.9	0.0
110°-120°	0.1	0.0
120°-130°	0.1	0.0
130°-140°	0.2	0.0
140°-150°	0.2	0.0
150°-160°	0.2	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-30°	1401.0	32.2
0°-40°	2225.0	51.1
0°-60°	3680.5	84.6
0°-90°	4336.6	99.6
90°-120°	14.7	0.3
90°-150°	15.3	0.4
90°-180°	16.0	0.4
0°-180°	4352.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1922	1922	1922	1922	1922	
5°	1898	1902	1895	1911	1918	178
15°	1688	1705	1757	1839	1873	475
25°	1405	1450	1544	1686	1767	647
35°	1075	1140	1300	1491	1607	672
45°	720	825	1044	1277	1393	553
55°	389	526	824	888	814	357
65°	247	336	443	472	388	245
75°	140	162	196	148	121	147
85°	38	47	67	86	60	41
90°	0	16	35	51	10	2
95°	0	2	15	25	3	0
105°	0	0	0	1	0	0
115°	0	0	0	0	0	0
125°	0	1	0	0	0	0
135°	0	1	0	0	0	0
145°	1	1	0	0	0	0
155°	1	1	0	0	0	0
165°	1	1	1	0	0	0
175°	1	1	1	0	0	0
180°	1	1	1	1	1	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1921.8	1921.8	1921.8	1921.8	1921.8
2.5°	1916.7	1915.5	1903.9	1920.3	1922.1
5°	1897.9	1902.1	1895.2	1911.1	1917.9
7.5°	1861.8	1866.3	1874.4	1903.3	1911.7
10°	1803.3	1814.7	1843.0	1883.6	1901.5
12.5°	1758.5	1772.6	1797.9	1866.9	1887.5
15°	1688.4	1705.1	1757.1	1839.4	1872.6
17.5°	1628.7	1659.2	1714.4	1804.8	1851.1
20°	1561.9	1586.3	1648.7	1770.8	1826.0
22.5°	1495.0	1526.0	1611.1	1725.4	1800.6
25°	1404.9	1450.2	1544.3	1685.7	1766.9
27.5°	1328.5	1385.8	1493.8	1638.9	1729.3
30°	1246.4	1290.9	1430.2	1591.1	1691.1
32.5°	1153.9	1223.7	1361.6	1536.5	1651.1
35°	1074.8	1139.8	1299.8	1491.4	1606.9
37.5°	998.4	1059.5	1231.5	1440.4	1558.0
40°	906.7	987.3	1168.2	1382.2	1505.4
42.5°	805.3	904.0	1109.4	1327.3	1452.0
45°	719.9	824.7	1043.7	1277.4	1393.2
47.5°	631.3	741.7	982.2	1216.8	1335.0
50°	534.8	669.2	926.4	1160.7	1233.3
52.5°	464.4	593.6	876.3	1059.2	1039.5
55°	388.6	526.2	823.5	887.9	813.9
57.5°	331.0	465.3	773.9	697.2	776.9
60°	302.0	416.7	697.8	663.8	711.8
62.5°	274.9	374.0	533.7	622.6	585.6
65°	246.8	336.1	442.6	471.6	388.0
67.5°	219.7	303.2	417.3	352.2	337.9
70°	191.9	277.9	367.1	300.3	178.5
72.5°	165.6	248.6	251.0	166.2	132.5
75°	140.0	161.8	195.8	148.3	120.6
77.5°	111.9	138.8	131.0	132.8	109.2
80°	85.7	95.5	106.8	118.8	96.4
82.5°	60.6	71.0	86.6	103.9	79.1
85°	38.5	46.9	66.9	86.3	60.3
87.5°	15.2	29.5	49.8	69.5	35.5
90°	0.3	16.1	35.2	51.3	9.8
92.5°	0.3	7.5	23.6	37.6	5.1
95°	0.3	2.4	14.6	25.1	3.3
97.5°	0.3	0.9	7.8	15.5	1.8
100°	0.3	0.3	3.3	8.4	0.9
102.5°	0.3	0.3	1.2	3.3	0.3
105°	0.3	0.3	0.3	0.9	0.0
107.5°	0.3	0.3	0.0	0.0	0.0
110°	0.3	0.3	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	0.3	0.0	0.0	0.0
115°	0.3	0.3	0.0	0.0	0.0
117.5°	0.3	0.3	0.0	0.0	0.0
120°	0.3	0.3	0.0	0.0	0.0
122.5°	0.3	0.3	0.0	0.0	0.0
125°	0.3	0.6	0.0	0.0	0.0
127.5°	0.3	0.3	0.0	0.0	0.0
130°	0.3	0.6	0.3	0.0	0.0
132.5°	0.3	0.6	0.3	0.0	0.0
135°	0.3	0.6	0.3	0.0	0.0
137.5°	0.3	0.6	0.3	0.0	0.0
140°	0.6	0.6	0.3	0.0	0.0
142.5°	0.6	0.6	0.3	0.0	0.0
145°	0.6	0.6	0.3	0.0	0.0
147.5°	0.6	0.6	0.3	0.0	0.0
150°	0.6	0.6	0.3	0.0	0.0
152.5°	0.6	0.6	0.3	0.0	0.0
155°	0.6	0.6	0.3	0.0	0.0
157.5°	0.6	0.9	0.3	0.0	0.0
160°	0.9	0.9	0.3	0.0	0.0
162.5°	0.9	0.9	0.6	0.3	0.0
165°	0.9	0.9	0.6	0.3	0.0
167.5°	0.9	0.9	0.6	0.3	0.0
170°	0.9	0.9	0.6	0.3	0.3
172.5°	0.9	0.9	0.6	0.3	0.3
175°	0.9	0.9	0.6	0.3	0.3
177.5°	0.9	0.9	0.6	0.3	0.3
180°	0.6	0.6	0.6	0.6	0.6

(END OF REPORT)