

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: P685834

Luminaire Tested: **8CZL-10-UNV-M-LVR-L950-CD-U**

Issue Date: 05/10/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P685834  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 05/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8CZL-10-UNV-M-LVR-L950-CD-U  
Description: METALUX CRUZE LINEAR 8FT LOUVER MODEL WITH MEDIUM LENS @90 CRI and 5000K  
Light Source: (784) 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

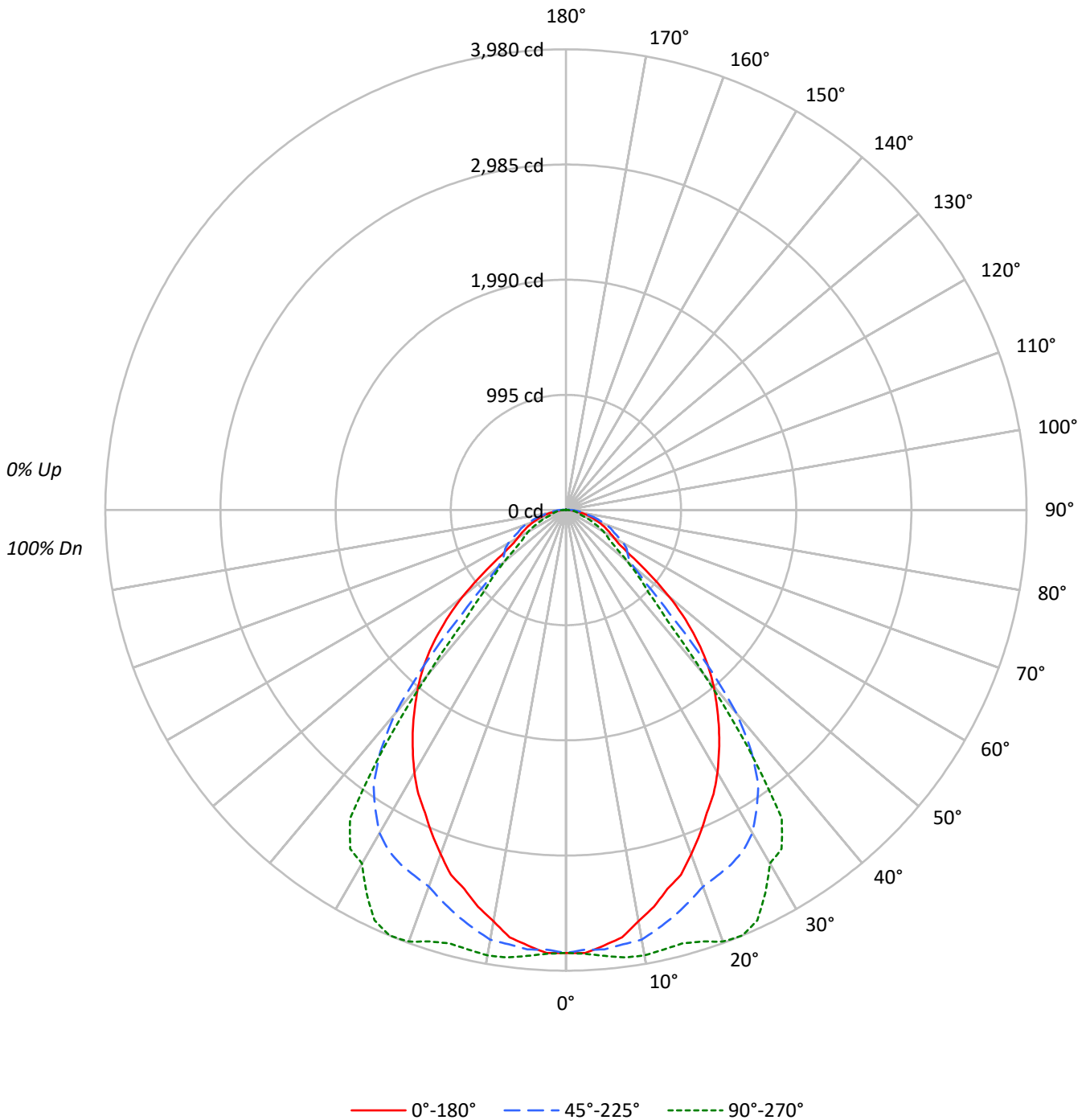
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7077.8 lumens  
Efficiency: N/A  
Efficacy: 112.3 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.34 / 1.2  
Luminous Opening: Rectangular (W 0.83' x L: 8' x H: 0')  
CIE Type: Direct

Input Watts (W): 63  
Input Voltage (V): 120  
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				20				
RC	80				70				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	102	102	102	100
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	93	91	90	88
2	103	96	90	86	100	94	89	84	91	86	83	87	84	81	84	81	79	84	81	79	77
3	95	87	80	74	93	85	79	74	82	77	72	79	75	71	77	73	70	77	73	70	68
4	89	78	71	65	86	77	70	65	75	69	64	73	67	63	70	66	62	70	66	62	60
5	83	72	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	65	60	56	54
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	60	55	51	49
7	72	60	53	47	70	59	52	47	58	51	47	57	51	46	55	50	46	55	50	46	44
8	68	56	48	43	66	55	48	43	54	47	42	52	47	42	51	46	42	51	46	42	40
9	64	52	44	39	62	51	44	39	50	43	39	49	43	39	48	42	39	48	42	39	37
10	60	48	41	36	59	47	41	36	46	40	36	46	40	36	45	39	35	45	39	35	34

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6178	6178	6178
5°	6120	6175	6268
10°	5913	6179	6405
15°	5664	6064	6480
20°	5436	5948	6817
25°	5136	6019	6968
30°	4881	6006	6572
35°	4545	5712	6409
40°	4184	4841	3906
45°	3687	2886	2315
50°	2926	1916	1747
55°	1894	1823	1326
60°	1547	1853	1218
65°	1474	1746	995
70°	1399	1752	786
75°	1329	1640	731
80°	1229	1549	821
85°	1100	1895	1008



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	363.1	5.1
10°-20°	1029.9	14.6
20°-30°	1553.0	21.9
30°-40°	1716.0	24.2
40°-50°	1075.9	15.2
50°-60°	579.3	8.2
60°-70°	393.4	5.6
70°-80°	235.0	3.3
80°-90°	102.1	1.4
90°-100°	22.4	0.3
100°-110°	2.6	0.0
110°-120°	0.9	0.0
120°-130°	0.8	0.0
130°-140°	1.0	0.0
140°-150°	0.9	0.0
150°-160°	0.7	0.0
160°-170°	0.6	0.0
170°-180°	0.2	0.0
0°-30°	2946.0	41.6
0°-40°	4662.0	65.9
0°-60°	6317.2	89.3
0°-90°	7047.7	99.6
90°-120°	25.9	0.4
90°-150°	28.7	0.4
90°-180°	30.0	0.4
0°-180°	7077.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3826	3826	3826	3826	3826	
5°	3776	3783	3810	3855	3867	356
15°	3389	3507	3628	3803	3877	957
25°	2883	3058	3379	3739	3912	1331
35°	2306	2577	2898	3117	3251	1439
45°	1614	1758	1264	1030	1014	1232
55°	673	704	648	560	471	654
65°	386	424	457	371	260	382
75°	213	237	263	216	117	225
85°	59	73	102	135	54	64
90°	2	22	52	86	16	4
95°	0	4	20	44	8	0
105°	0	1	2	4	2	1
115°	0	1	1	1	1	0
125°	0	1	1	1	1	0
135°	1	1	2	2	2	1
145°	1	2	2	2	2	1
155°	2	2	2	2	2	1
165°	2	2	2	2	2	0
175°	2	2	2	2	2	0
180°	2	2	2	2	2	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3826.2	3826.2	3826.2	3826.2	3826.2
2.5°	3831.2	3820.7	3801.2	3836.1	3836.6
5°	3776.3	3782.8	3810.2	3855.1	3867.1
7.5°	3722.9	3747.8	3784.8	3893.0	3898.5
10°	3606.6	3658.5	3768.8	3873.1	3906.5
12.5°	3509.9	3586.7	3700.4	3837.6	3889.5
15°	3388.6	3507.4	3627.6	3803.2	3876.6
17.5°	3303.8	3399.1	3546.3	3787.3	3907.5
20°	3163.6	3297.8	3462.0	3798.2	3967.4
22.5°	3027.4	3190.6	3419.6	3802.2	3979.8
25°	2882.7	3057.8	3378.6	3738.9	3911.5
27.5°	2763.0	2909.7	3317.8	3606.6	3731.4
30°	2618.3	2790.9	3221.5	3404.6	3525.3
32.5°	2462.6	2681.7	3065.3	3249.9	3469.4
35°	2306.0	2576.9	2897.7	3117.2	3251.4
37.5°	2142.3	2490.6	2634.3	2669.7	2577.9
40°	1985.2	2370.3	2297.0	1954.2	1853.0
42.5°	1813.6	2111.9	1791.6	1344.6	1299.2
45°	1614.5	1757.7	1263.7	1030.3	1013.8
47.5°	1402.4	1361.0	942.4	861.1	851.6
50°	1165.0	1088.1	762.8	759.8	695.5
52.5°	908.0	864.1	684.0	659.1	556.8
55°	673.0	704.0	647.6	560.3	471.0
57.5°	538.8	610.7	622.1	489.4	421.1
60°	479.0	534.3	573.8	450.0	377.2
62.5°	429.6	473.5	513.9	417.6	325.3
65°	385.7	424.1	457.0	371.2	260.4
67.5°	339.3	379.2	419.6	318.8	221.5
70°	296.4	338.8	371.2	282.9	166.6
72.5°	252.0	295.9	310.3	236.5	133.2
75°	213.0	237.0	262.9	216.0	117.2
77.5°	172.1	192.6	203.1	198.1	103.3
80°	132.2	148.7	166.6	180.1	88.3
82.5°	96.8	108.8	133.2	158.7	70.8
85°	59.4	72.8	102.3	134.7	54.4
87.5°	26.4	43.4	75.3	111.3	34.9
90°	1.5	22.5	51.9	86.3	16.0
92.5°	0.5	10.0	33.9	63.9	11.0
95°	0.5	3.5	20.5	44.4	8.0
97.5°	0.5	1.5	11.5	28.4	5.0
100°	0.5	1.0	5.5	16.5	3.5
102.5°	0.5	1.0	2.5	8.0	2.5
105°	0.5	1.0	1.5	3.5	1.5
107.5°	0.5	1.0	1.0	1.5	1.0
110°	0.5	1.0	1.0	1.0	1.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	1.0	1.0	1.0	1.0
115°	0.5	1.0	1.0	1.0	1.0
117.5°	0.5	1.0	1.0	1.0	1.0
120°	0.5	1.0	1.0	1.0	1.0
122.5°	0.5	1.0	1.0	1.0	1.0
125°	0.5	1.0	1.0	1.0	1.0
127.5°	0.5	1.0	1.0	1.0	1.0
130°	0.5	1.0	1.0	1.0	1.0
132.5°	1.0	1.0	1.5	1.5	1.5
135°	1.0	1.0	1.5	1.5	1.5
137.5°	1.0	1.5	1.5	1.5	1.5
140°	1.0	1.5	1.5	1.5	1.5
142.5°	1.0	1.5	1.5	1.5	1.5
145°	1.0	1.5	1.5	1.5	2.0
147.5°	1.0	1.5	1.5	1.5	2.0
150°	1.0	1.5	1.5	1.5	1.5
152.5°	1.5	1.5	1.5	1.5	1.5
155°	1.5	1.5	1.5	1.5	1.5
157.5°	1.5	1.5	1.5	2.0	2.0
160°	1.5	2.0	2.0	2.0	2.0
162.5°	1.5	2.0	2.0	2.0	2.0
165°	1.5	2.0	2.0	2.0	2.0
167.5°	1.5	2.0	2.0	2.0	2.5
170°	2.0	2.0	2.0	2.5	2.5
172.5°	2.0	2.0	2.0	2.5	2.5
175°	2.0	2.0	2.0	2.5	2.5
177.5°	2.0	2.5	2.0	2.5	3.0
180°	2.5	2.5	2.5	2.5	2.5

(END OF REPORT)