

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: P685714

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

Issue Date: 05/10/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P685714  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 05/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8CZL-10-UNV-LVR-L950-CD-U  
Description: METALUX CRUZE LINEAR 8FT LOUVER MODEL @90 CRI and 5000K  
Light Source: (784) 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

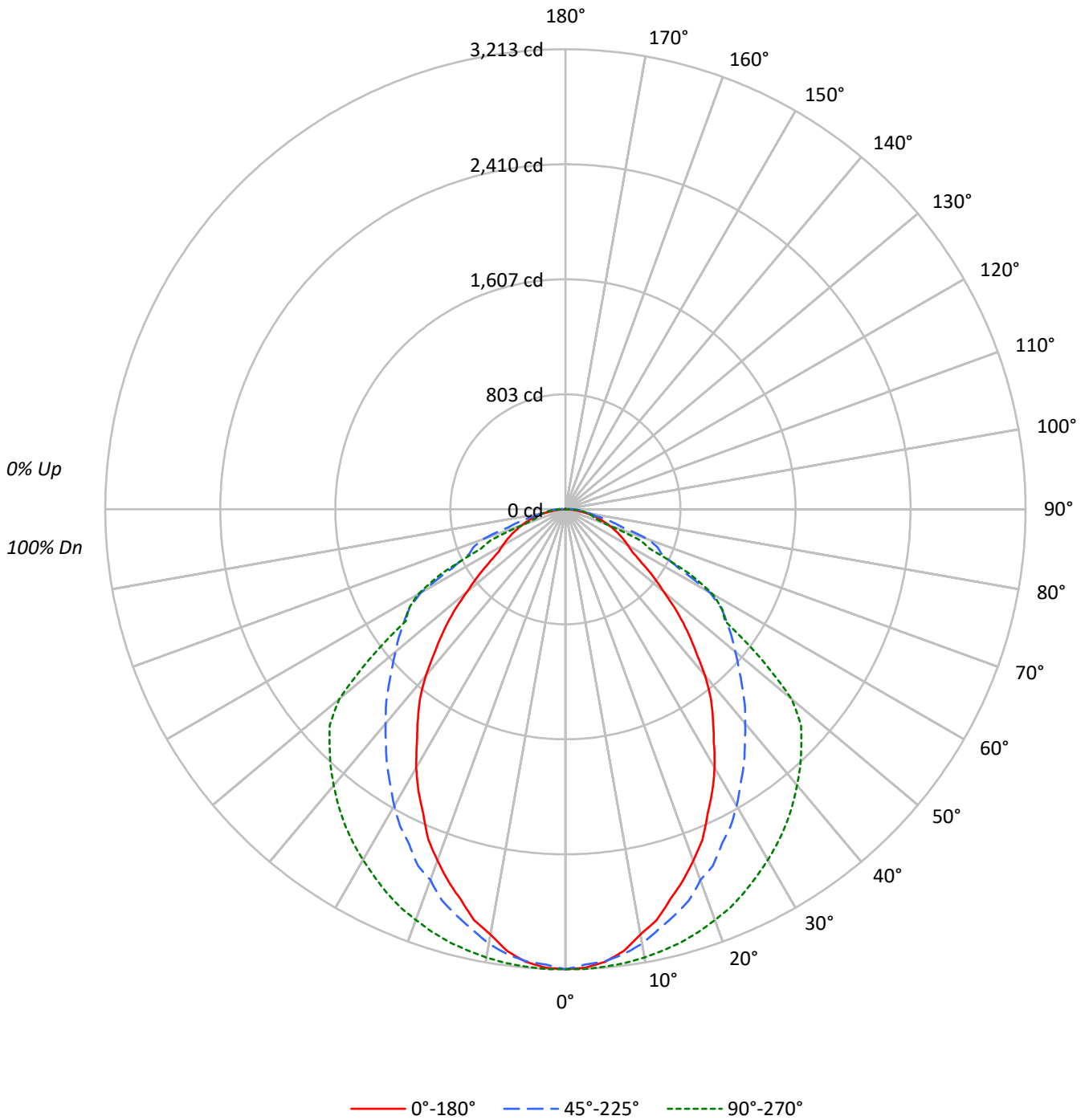
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7275.4 lumens  
Efficiency: N/A  
Efficacy: 115.5 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.31 / 1.26  
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 (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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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	88	88	88	85
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	75	75	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	65	65	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	56	56	56	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	49	49	49	49	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	44	44	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	39	39	39	37
8	63	50	42	36	61	49	42	36	48	41	36	47	40	36	46	40	35	35	35	35	34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	32	32	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	34	29	29	29	29	28

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

	0°	45°	90°
0°	5187	5187	5187
5°	5142	5135	5196
10°	4942	5051	5211
15°	4718	4910	5232
20°	4486	4736	5245
25°	4184	4599	5262
30°	3884	4457	5270
35°	3541	4283	5295
40°	3195	4116	5304
45°	2748	3984	5318
50°	2246	3890	5178
55°	1829	3875	3830
60°	1630	3767	3842
65°	1576	2827	2478
70°	1514	2897	1409
75°	1460	2042	1258
80°	1331	1661	1499
85°	1193	2071	1867



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	300.9	4.1
10°-20°	834.2	11.5
20°-30°	1206.9	16.6
30°-40°	1377.5	18.9
40°-50°	1353.5	18.6
50°-60°	1079.6	14.8
60°-70°	680.0	9.3
70°-80°	301.3	4.1
80°-90°	115.5	1.6
90°-100°	22.9	0.3
100°-110°	1.5	0.0
110°-120°	0.2	0.0
120°-130°	0.2	0.0
130°-140°	0.3	0.0
140°-150°	0.3	0.0
150°-160°	0.3	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	2342.0	32.2
0°-40°	3719.4	51.1
0°-60°	6152.5	84.6
0°-90°	7249.3	99.6
90°-120°	24.6	0.3
90°-150°	25.5	0.4
90°-180°	26.0	0.4
0°-180°	7275.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3213	3213	3213	3213	3213	
5°	3173	3180	3168	3195	3206	298
15°	2822	2850	2937	3075	3130	795
25°	2348	2424	2581	2818	2954	1082
35°	1797	1905	2173	2493	2686	1123
45°	1203	1378	1745	2135	2329	925
55°	650	880	1376	1484	1361	597
65°	413	562	740	788	649	409
75°	234	270	327	248	202	245
85°	64	78	112	144	101	68
90°	0	27	59	86	16	4
95°	0	4	24	42	6	0
105°	0	0	0	2	0	1
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	1
155°	1	1	0	0	0	0
165°	2	2	1	0	0	0
175°	2	2	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°	3212.6	3212.6	3212.6	3212.6	3212.6
2.5°	3204.1	3202.1	3182.6	3210.1	3213.1
5°	3172.7	3179.6	3168.2	3194.6	3206.1
7.5°	3112.3	3119.8	3133.2	3181.6	3195.6
10°	3014.5	3033.5	3080.9	3148.7	3178.6
12.5°	2939.7	2963.1	3005.5	3120.8	3155.2
15°	2822.4	2850.4	2937.2	3074.9	3130.2
17.5°	2722.6	2773.5	2865.8	3017.0	3094.3
20°	2610.9	2651.8	2756.1	2960.1	3052.4
22.5°	2499.1	2551.0	2693.2	2884.3	3010.0
25°	2348.4	2424.3	2581.4	2817.9	2953.6
27.5°	2220.7	2316.5	2497.1	2739.6	2890.8
30°	2083.5	2157.8	2390.8	2659.8	2826.9
32.5°	1928.8	2045.6	2276.1	2568.5	2760.0
35°	1796.6	1905.4	2172.8	2493.1	2686.2
37.5°	1668.9	1771.2	2058.6	2407.8	2604.4
40°	1515.7	1650.4	1952.8	2310.5	2516.6
42.5°	1346.1	1511.2	1854.5	2218.7	2427.3
45°	1203.4	1378.5	1744.7	2135.4	2329.0
47.5°	1055.2	1239.8	1642.0	2034.1	2231.7
50°	894.1	1118.6	1548.7	1940.3	2061.6
52.5°	776.3	992.4	1464.8	1770.7	1737.8
55°	649.6	879.6	1376.5	1484.3	1360.6
57.5°	553.3	777.8	1293.7	1165.5	1298.7
60°	504.9	696.5	1166.5	1109.6	1189.9
62.5°	459.5	625.2	892.1	1040.8	978.9
65°	412.6	561.8	739.9	788.3	648.6
67.5°	367.2	506.9	697.5	588.7	564.8
70°	320.8	464.5	613.7	501.9	298.4
72.5°	276.9	415.6	419.6	277.9	221.5
75°	234.0	270.4	327.3	248.0	201.6
77.5°	187.1	232.0	219.0	222.0	182.6
80°	143.2	159.7	178.6	198.6	161.2
82.5°	101.3	118.7	144.7	173.6	132.2
85°	64.4	78.3	111.8	144.2	100.8
87.5°	25.4	49.4	83.3	116.2	59.4
90°	0.5	26.9	58.9	85.8	16.5
92.5°	0.5	12.5	39.4	62.9	8.5
95°	0.5	4.0	24.4	41.9	5.5
97.5°	0.5	1.5	13.0	25.9	3.0
100°	0.5	0.5	5.5	14.0	1.5
102.5°	0.5	0.5	2.0	5.5	0.5
105°	0.5	0.5	0.5	1.5	0.0
107.5°	0.5	0.5	0.0	0.0	0.0
110°	0.5	0.5	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	0.5	0.0	0.0	0.0
115°	0.5	0.5	0.0	0.0	0.0
117.5°	0.5	0.5	0.0	0.0	0.0
120°	0.5	0.5	0.0	0.0	0.0
122.5°	0.5	0.5	0.0	0.0	0.0
125°	0.5	1.0	0.0	0.0	0.0
127.5°	0.5	0.5	0.0	0.0	0.0
130°	0.5	1.0	0.5	0.0	0.0
132.5°	0.5	1.0	0.5	0.0	0.0
135°	0.5	1.0	0.5	0.0	0.0
137.5°	0.5	1.0	0.5	0.0	0.0
140°	1.0	1.0	0.5	0.0	0.0
142.5°	1.0	1.0	0.5	0.0	0.0
145°	1.0	1.0	0.5	0.0	0.0
147.5°	1.0	1.0	0.5	0.0	0.0
150°	1.0	1.0	0.5	0.0	0.0
152.5°	1.0	1.0	0.5	0.0	0.0
155°	1.0	1.0	0.5	0.0	0.0
157.5°	1.0	1.5	0.5	0.0	0.0
160°	1.5	1.5	0.5	0.0	0.0
162.5°	1.5	1.5	1.0	0.5	0.0
165°	1.5	1.5	1.0	0.5	0.0
167.5°	1.5	1.5	1.0	0.5	0.0
170°	1.5	1.5	1.0	0.5	0.5
172.5°	1.5	1.5	1.0	0.5	0.5
175°	1.5	1.5	1.0	0.5	0.5
177.5°	1.5	1.5	1.0	0.5	0.5
180°	1.0	1.0	1.0	1.0	1.0

(END OF REPORT)