

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: P685354

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

Issue Date: 05/10/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P685354  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 05/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8CZL-10-UNV-L950-CD-U  
Description: METALUX CRUZE LINEAR 8FT BASE MODEL @90 CRI and 5000K  
Light Source: (784) 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

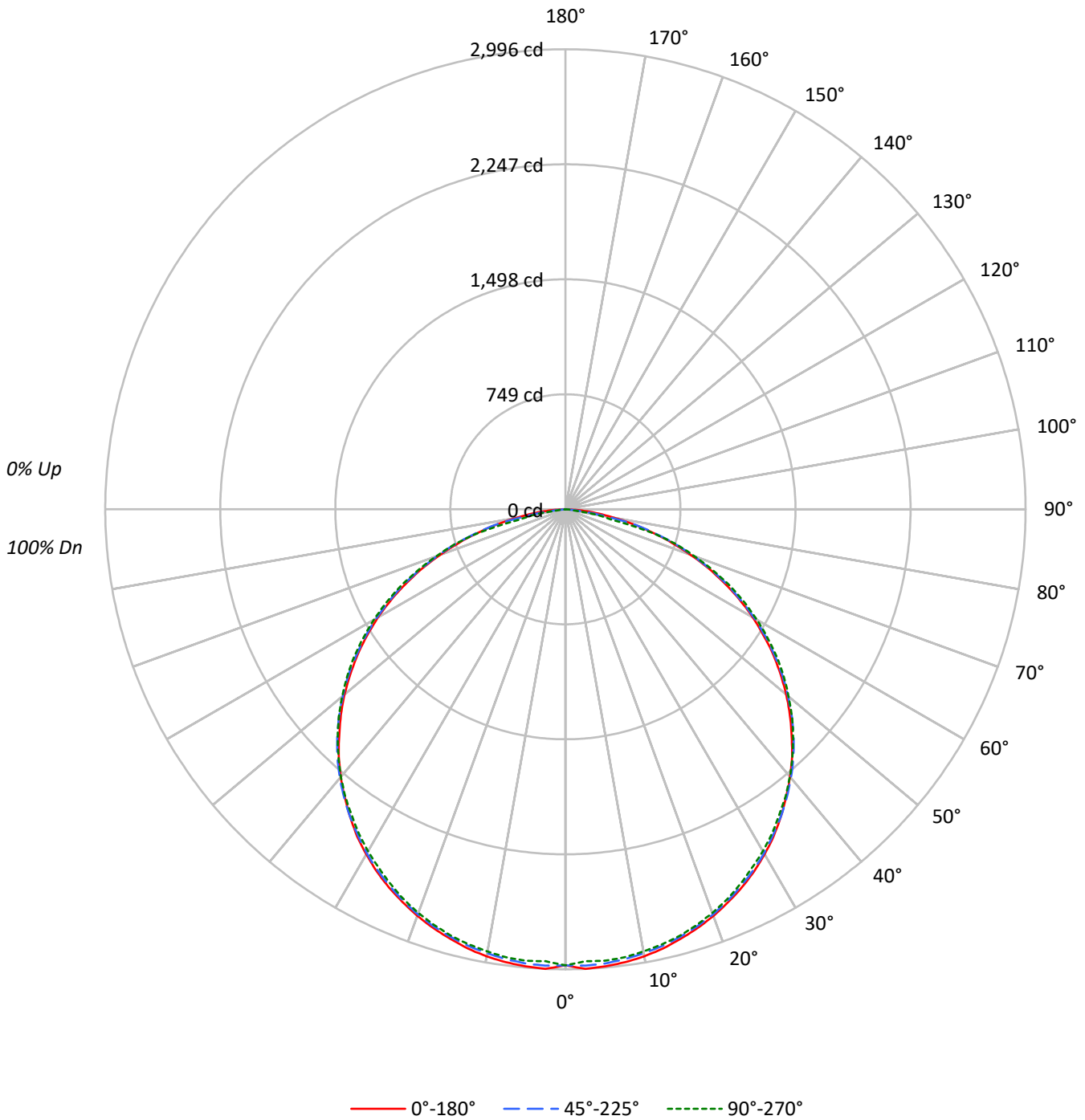
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8809.5 lumens  
Efficiency: N/A  
Efficacy: 139.8 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.29 / 1.41  
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	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	86	86	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	72	72	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	61	61	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	52	52	52	50
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	45	45	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	39	39	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	35	35	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	31	31	31	29
9	56	42	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	28	28	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	25	25	25	24

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

	0°	45°	90°
0°	4795	4795	4795
5°	4843	4812	4782
10°	4847	4814	4793
15°	4840	4820	4805
20°	4841	4824	4806
25°	4842	4823	4799
30°	4836	4823	4792
35°	4819	4819	4785
40°	4796	4815	4792
45°	4756	4797	4787
50°	4715	4749	4765
55°	4653	4685	4731
60°	4551	4592	4647
65°	4381	4444	4520
70°	4098	4179	4218
75°	3687	3755	3563
80°	3080	2508	1953
85°	2297	604	219



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	281.7	3.2
10°-20°	812.3	9.2
20°-30°	1243.9	14.1
30°-40°	1522.9	17.3
40°-50°	1611.1	18.3
50°-60°	1485.7	16.9
60°-70°	1146.1	13.0
70°-80°	612.1	6.9
80°-90°	93.7	1.1
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°	2337.9	26.5
0°-40°	3860.8	43.8
0°-60°	6957.6	79.0
0°-90°	8809.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8809.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2970	2970	2970	2970	2970	
5°	2988	2952	2969	2956	2951	284
15°	2896	2865	2884	2874	2875	818
25°	2718	2690	2707	2687	2694	1253
35°	2445	2430	2445	2424	2428	1530
45°	2083	2082	2101	2086	2096	1608
55°	1653	1651	1664	1674	1681	1474
65°	1147	1147	1163	1172	1183	1132
75°	591	590	602	606	571	626
85°	124	89	33	14	12	152
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2969.7	2969.7	2969.7	2969.7	2969.7
2.5°	2996.0	2960.7	2975.1	2964.3	2946.2
5°	2987.8	2952.5	2968.8	2956.1	2950.7
7.5°	2975.1	2938.9	2955.2	2945.3	2943.5
10°	2956.1	2919.0	2936.2	2925.4	2923.5
12.5°	2930.8	2894.6	2913.6	2900.9	2902.7
15°	2895.5	2864.7	2883.7	2873.8	2874.7
17.5°	2860.2	2828.5	2848.4	2838.5	2839.4
20°	2817.6	2786.9	2807.7	2792.3	2796.8
22.5°	2769.7	2742.5	2760.6	2740.7	2749.8
25°	2718.1	2690.0	2707.2	2687.3	2693.6
27.5°	2659.2	2633.0	2650.2	2629.4	2632.1
30°	2594.1	2570.5	2586.8	2566.0	2570.5
32.5°	2524.4	2503.6	2516.2	2497.2	2503.6
35°	2444.7	2430.3	2444.7	2423.9	2427.5
37.5°	2361.5	2347.0	2366.9	2348.8	2355.1
40°	2275.5	2261.9	2284.5	2266.4	2273.7
42.5°	2184.1	2174.1	2196.7	2178.6	2187.7
45°	2082.7	2081.8	2100.8	2086.3	2096.3
47.5°	1982.2	1980.4	1999.4	1989.5	2001.2
50°	1877.2	1875.4	1890.8	1889.9	1897.1
52.5°	1765.0	1767.7	1782.2	1784.9	1793.0
55°	1652.8	1650.9	1664.5	1674.5	1680.8
57.5°	1530.6	1534.2	1545.0	1556.8	1561.3
60°	1409.3	1407.5	1421.9	1431.9	1439.1
62.5°	1280.7	1280.7	1292.5	1307.0	1314.2
65°	1146.8	1146.8	1163.1	1172.1	1183.0
67.5°	1010.1	1007.4	1021.9	1041.8	1040.0
70°	868.0	868.9	885.2	895.2	893.4
72.5°	726.8	729.5	746.7	751.3	755.8
75°	591.0	590.1	601.9	606.4	571.1
77.5°	456.2	457.1	464.3	340.3	298.7
80°	331.3	333.1	269.7	210.0	210.0
82.5°	219.0	215.4	138.5	81.5	59.7
85°	124.0	88.7	32.6	13.6	11.8
87.5°	50.7	16.3	9.1	6.3	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)