

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: P685534

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

Issue Date: 05/10/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P685534  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 05/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8CZL-10-UNV-W-L950-CD-U  
Description: METALUX CRUZE LINEAR 8FT WIDE LENS MODEL @90 CRI and 5000K  
Light Source: (784) 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

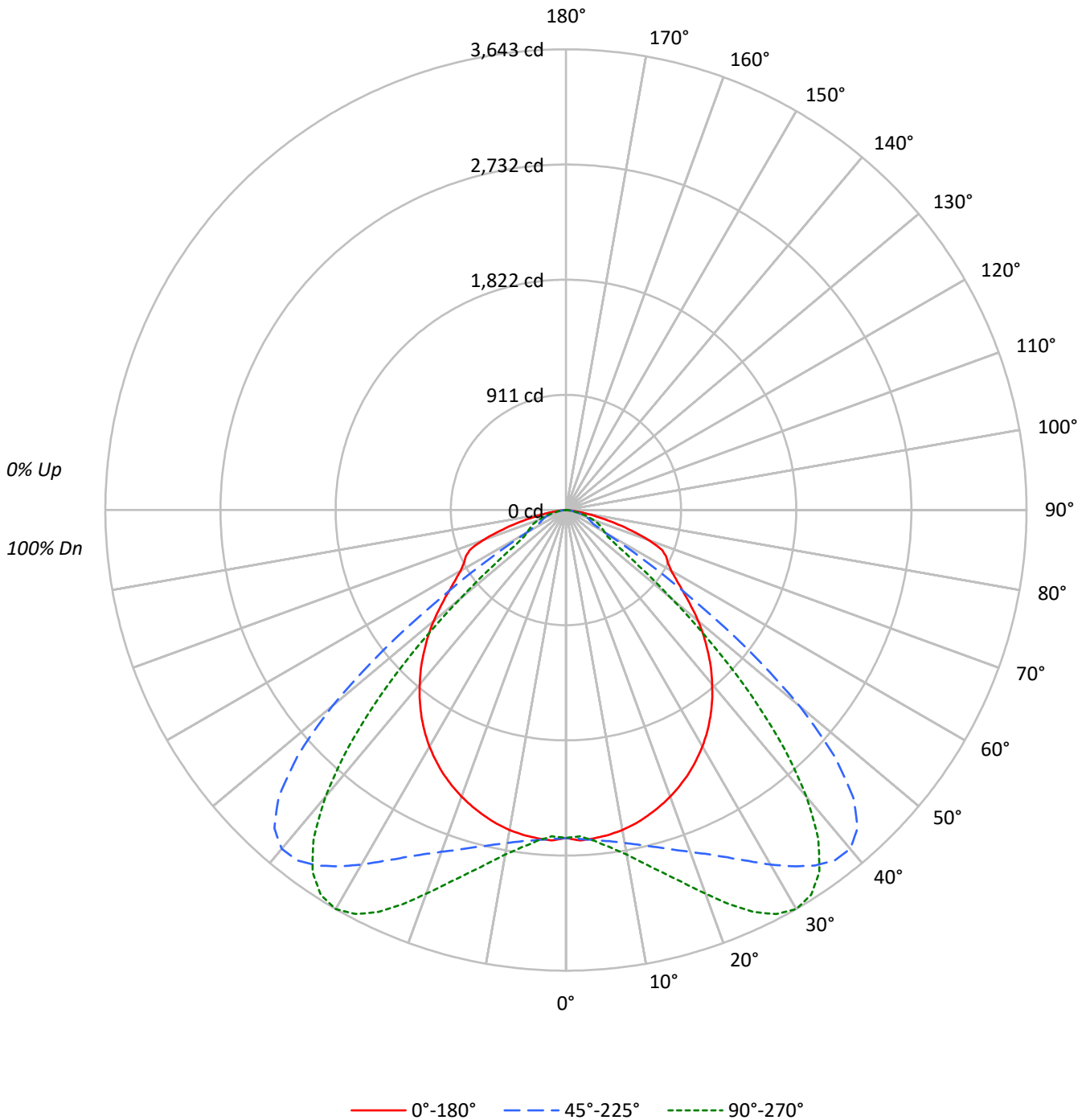
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8292.5 lumens  
Efficiency: N/A  
Efficacy: 131.6 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.69 / 1.65  
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				
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	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	89	89	89	87
2	102	94	88	83	99	93	87	82	89	85	81	86	82	79	83	80	77	77	77	77	75
3	93	84	77	71	91	82	76	70	79	74	69	77	72	68	74	70	67	67	67	67	65
4	86	75	67	61	84	73	66	60	71	65	59	69	63	59	67	62	58	58	58	58	56
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	51	51	51	49
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	55	49	45	45	45	45	43
7	68	55	46	40	66	54	46	40	52	45	40	51	45	40	50	44	39	39	39	39	38
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	35	35	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	32	32	32	30
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	29	29	29	27

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

	0°	45°	90°
0°	4186	4186	4186
5°	4223	4245	4258
10°	4213	4381	4535
15°	4182	4613	4964
20°	4145	4941	5546
25°	4096	5400	6246
30°	4026	6034	6792
35°	3927	6763	6886
40°	3791	7369	6238
45°	3627	7341	4735
50°	3431	6067	2729
55°	3198	3337	1404
60°	3103	1164	1144
65°	3344	847	1147
70°	3303	868	1107
75°	2497	759	888
80°	1509	620	629
85°	752	317	133



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.9	3.0
10°-20°	780.3	9.4
20°-30°	1370.8	16.5
30°-40°	1904.3	23.0
40°-50°	1931.2	23.3
50°-60°	1239.3	14.9
60°-70°	579.7	7.0
70°-80°	201.0	2.4
80°-90°	35.0	0.4
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°	2402.0	29.0
0°-40°	4306.3	51.9
0°-60°	7476.8	90.2
0°-90°	8292.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8292.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2593	2593	2593	2593	2593	
5°	2606	2587	2619	2627	2627	248
15°	2502	2561	2760	2908	2970	706
25°	2299	2534	3031	3386	3506	1058
35°	1992	2556	3431	3549	3494	1244
45°	1588	2736	3215	2398	2074	1225
55°	1136	2826	1186	571	499	1025
65°	875	903	222	278	300	852
75°	400	138	122	140	142	433
85°	41	37	17	10	7	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2592.8	2592.8	2592.8	2592.8	2592.8	2592.8	2592.8	2592.8	2592.8	2592.8	2592.8
2.5°	2615.4	2607.3	2593.8	2588.3	2591.0	2604.6	2609.1	2599.2	2596.5	2589.2	2582.0
5°	2605.5	2598.3	2588.3	2586.5	2596.5	2619.0	2628.9	2626.2	2630.7	2631.6	2627.1
7.5°	2591.0	2584.7	2576.6	2584.7	2605.5	2641.5	2664.1	2671.3	2687.5	2691.1	2690.2
10°	2569.4	2564.0	2561.3	2582.0	2618.1	2672.2	2711.9	2731.7	2755.1	2763.2	2765.9
12.5°	2540.6	2535.2	2542.4	2578.4	2635.2	2712.8	2771.4	2806.5	2839.9	2857.0	2862.4
15°	2501.8	2500.0	2518.0	2575.7	2656.9	2759.6	2840.8	2895.8	2943.6	2962.5	2969.7
17.5°	2459.4	2460.3	2492.8	2574.8	2683.0	2814.6	2918.3	2996.7	3055.3	3082.4	3090.5
20°	2412.5	2415.2	2463.9	2573.9	2715.5	2875.9	3004.0	3106.7	3179.8	3215.8	3227.5
22.5°	2357.5	2363.0	2432.4	2574.8	2749.7	2946.3	3104.9	3227.5	3315.0	3358.3	3372.7
25°	2298.9	2307.1	2399.9	2579.3	2793.0	3031.0	3220.3	3363.7	3452.0	3489.9	3506.1
27.5°	2231.3	2244.9	2364.8	2585.6	2844.4	3129.3	3338.4	3476.4	3558.4	3587.3	3601.7
30°	2159.2	2174.5	2330.5	2598.3	2911.1	3236.6	3447.5	3563.8	3618.8	3635.0	3643.2
32.5°	2079.9	2105.1	2296.2	2619.0	2989.5	3340.2	3527.8	3597.2	3610.7	3605.3	3608.0
35°	1992.4	2019.5	2263.8	2653.3	3078.8	3431.3	3559.3	3559.3	3519.6	3495.3	3493.5
37.5°	1899.6	1933.8	2231.3	2692.9	3182.5	3491.7	3525.0	3435.8	3339.3	3287.0	3278.9
40°	1798.6	1844.6	2208.8	2747.0	3276.2	3496.2	3402.4	3218.5	3054.4	2969.7	2959.8
42.5°	1698.5	1755.3	2198.9	2817.3	3346.5	3413.3	3171.6	2887.7	2665.0	2564.9	2554.1
45°	1588.5	1663.4	2202.5	2913.8	3365.5	3214.9	2828.2	2460.3	2210.6	2084.4	2073.6
47.5°	1479.4	1572.3	2211.5	3022.9	3282.5	2878.6	2371.1	1945.5	1697.6	1565.1	1563.3
50°	1365.8	1486.7	2233.1	3112.1	3058.0	2415.2	1809.4	1393.8	1195.5	1094.5	1086.4
52.5°	1247.7	1411.8	2280.0	3128.4	2658.7	1820.2	1227.9	930.4	801.5	737.5	724.8
55°	1135.9	1348.7	2356.6	2982.3	2084.4	1185.5	773.5	586.9	522.0	495.9	498.6
57.5°	1039.5	1301.8	2445.9	2601.0	1353.2	697.8	448.1	390.4	388.6	391.3	392.2
60°	961.0	1273.0	2485.6	1950.9	742.9	360.6	312.8	325.5	342.6	352.5	354.3
62.5°	909.7	1257.7	2364.8	1130.5	330.0	251.5	273.2	296.6	316.4	325.5	326.4
65°	875.4	1217.1	1934.7	559.0	201.9	221.8	248.8	273.2	291.2	298.4	300.2
67.5°	822.2	1102.6	1326.2	231.7	177.6	200.1	226.3	249.7	265.1	270.5	271.4
70°	699.6	923.2	770.8	154.2	160.5	183.9	204.7	222.7	232.6	235.3	234.4
72.5°	546.3	731.2	389.5	139.7	148.8	161.4	173.1	183.0	188.4	191.1	191.1
75°	400.3	534.6	183.0	123.5	110.9	121.7	133.4	139.7	141.5	142.4	142.4
77.5°	268.7	368.7	109.1	95.6	85.6	94.7	99.2	96.5	94.7	96.5	96.5
80°	162.3	227.2	95.6	69.4	65.8	66.7	63.1	63.1	66.7	68.5	67.6
82.5°	87.5	128.9	83.8	50.5	44.2	40.6	39.7	37.9	36.1	35.2	35.2
85°	40.6	65.8	54.1	30.7	23.4	17.1	13.5	9.9	9.0	7.2	7.2
87.5°	16.2	25.2	16.2	9.9	5.4	3.6	2.7	1.8	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)