

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: P685514

Luminaire Tested: **8CZL-10-UNV-W-L935-CD-U**

Issue Date: 05/10/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P685514  
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-L935-CD-U  
Description: METALUX CRUZE LINEAR 8FT WIDE LENS MODEL @90 CRI and 3500K  
Light Source: (784) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

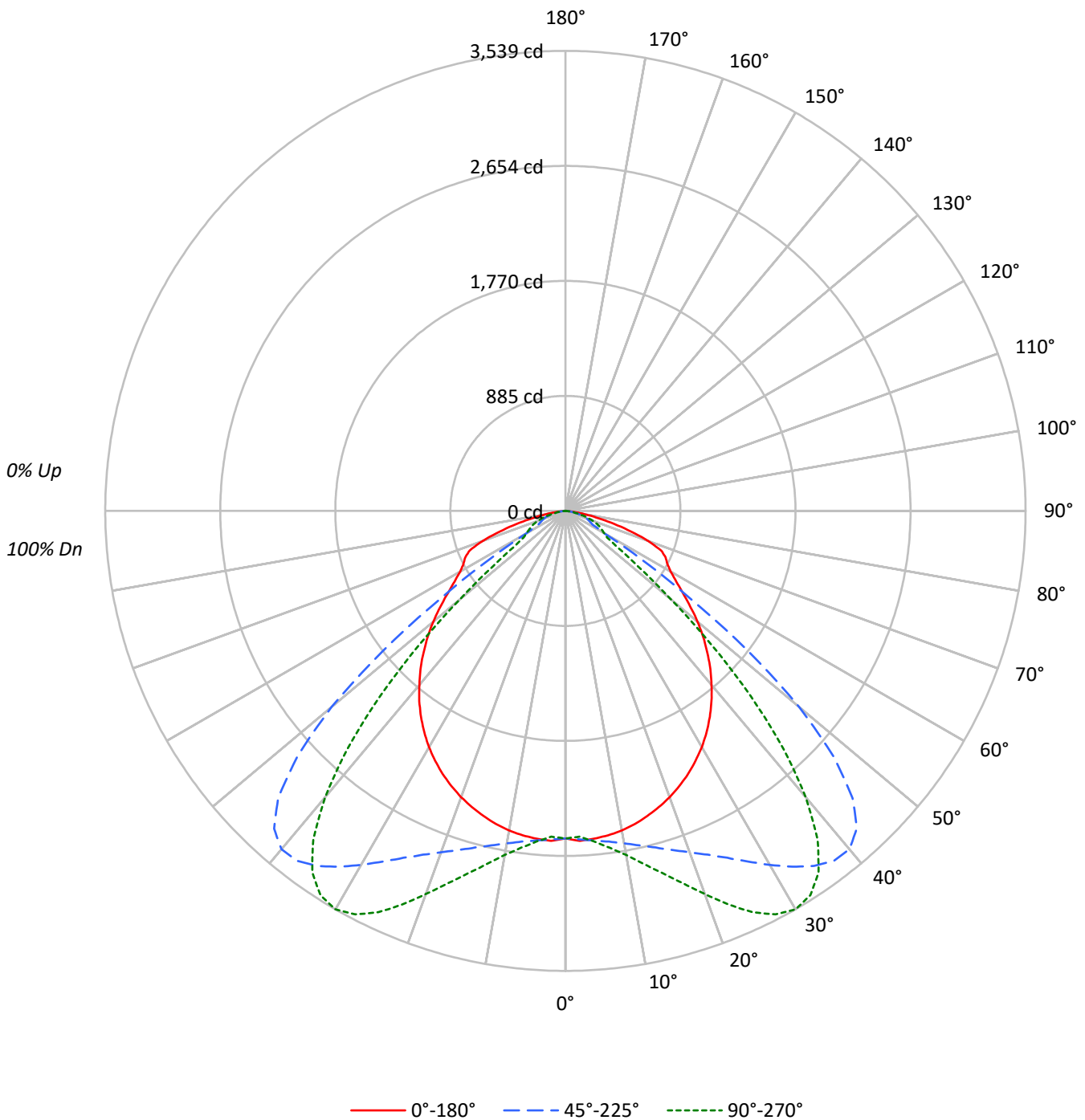
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8056.4 lumens  
Efficiency: N/A  
Efficacy: 127.9 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°	4067	4067	4067
5°	4103	4124	4137
10°	4093	4256	4406
15°	4063	4482	4823
20°	4027	4801	5388
25°	3979	5246	6068
30°	3911	5862	6599
35°	3815	6571	6690
40°	3683	7159	6061
45°	3524	7132	4600
50°	3333	5894	2651
55°	3107	3242	1364
60°	3015	1132	1111
65°	3249	823	1114
70°	3209	844	1075
75°	2426	737	863
80°	1466	603	611
85°	730	308	130



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	243.8	3.0
10°-20°	758.1	9.4
20°-30°	1331.7	16.5
30°-40°	1850.1	23.0
40°-50°	1876.2	23.3
50°-60°	1204.0	14.9
60°-70°	563.1	7.0
70°-80°	195.3	2.4
80°-90°	34.0	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°	2333.6	29.0
0°-40°	4183.7	51.9
0°-60°	7264.0	90.2
0°-90°	8056.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8056.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2519	2519	2519	2519	2519	
5°	2531	2513	2544	2552	2552	240
15°	2431	2488	2681	2825	2885	686
25°	2234	2462	2945	3289	3406	1028
35°	1936	2483	3334	3448	3394	1209
45°	1543	2658	3123	2330	2014	1190
55°	1104	2745	1152	554	484	996
65°	850	877	216	270	292	827
75°	389	134	118	136	138	421
85°	39	36	17	9	7	60
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°	2519.0	2519.0	2519.0	2519.0	2519.0	2519.0	2519.0	2519.0	2519.0	2519.0	2519.0
2.5°	2540.9	2533.0	2519.9	2514.6	2517.3	2530.4	2534.8	2525.2	2522.5	2515.5	2508.5
5°	2531.3	2524.3	2514.6	2512.9	2522.5	2544.4	2554.1	2551.4	2555.8	2556.7	2552.3
7.5°	2517.3	2511.1	2503.3	2511.1	2531.3	2566.3	2588.2	2595.2	2611.0	2614.5	2613.6
10°	2496.3	2491.0	2488.4	2508.5	2543.5	2596.1	2634.6	2653.9	2676.7	2684.6	2687.2
12.5°	2468.2	2463.0	2470.0	2505.0	2560.2	2635.5	2692.4	2726.6	2759.0	2775.7	2780.9
15°	2430.6	2428.8	2446.3	2502.4	2581.2	2681.1	2759.9	2813.3	2859.7	2878.1	2885.1
17.5°	2389.4	2390.3	2421.8	2501.5	2606.6	2734.5	2835.2	2911.4	2968.4	2994.6	3002.5
20°	2343.8	2346.5	2393.8	2500.6	2638.1	2794.1	2918.4	3018.3	3089.2	3124.3	3135.6
22.5°	2290.4	2295.7	2363.1	2501.5	2671.4	2862.4	3016.5	3135.6	3220.6	3262.6	3276.7
25°	2233.5	2241.4	2331.6	2505.9	2713.5	2944.7	3128.6	3267.9	3353.7	3390.5	3406.3
27.5°	2167.8	2180.9	2297.4	2512.0	2763.4	3040.2	3243.4	3377.4	3457.1	3485.1	3499.1
30°	2097.7	2112.6	2264.1	2524.3	2828.2	3144.4	3349.4	3462.3	3515.8	3531.5	3539.4
32.5°	2020.7	2045.2	2230.9	2544.4	2904.4	3245.1	3427.3	3494.8	3507.9	3502.6	3505.3
35°	1935.7	1962.0	2199.3	2577.7	2991.1	3333.6	3458.0	3458.0	3419.4	3395.8	3394.0
37.5°	1845.5	1878.8	2167.8	2616.2	3091.8	3392.3	3424.7	3338.0	3244.3	3193.5	3185.6
40°	1747.4	1792.0	2145.9	2668.8	3182.9	3396.7	3305.6	3126.9	2967.5	2885.1	2875.5
42.5°	1650.2	1705.3	2136.3	2737.1	3251.3	3316.1	3081.3	2805.4	2589.1	2491.9	2481.4
45°	1543.3	1616.0	2139.8	2830.8	3269.7	3123.4	2747.6	2390.3	2147.7	2025.0	2014.5
47.5°	1437.3	1527.5	2148.5	2936.8	3189.1	2796.7	2303.6	1890.1	1649.3	1520.5	1518.8
50°	1327.0	1444.3	2169.5	3023.5	2971.0	2346.5	1757.9	1354.1	1161.4	1063.3	1055.4
52.5°	1212.2	1371.6	2215.1	3039.3	2583.0	1768.4	1192.9	903.9	778.7	716.5	704.2
55°	1103.6	1310.3	2289.5	2897.4	2025.0	1151.8	751.5	570.2	507.1	481.7	484.4
57.5°	1009.9	1264.8	2376.3	2526.9	1314.7	677.9	435.3	379.3	377.5	380.1	381.0
60°	933.7	1236.7	2414.8	1895.4	721.7	350.4	303.9	316.2	332.8	342.5	344.2
62.5°	883.8	1221.8	2297.4	1098.4	320.6	244.4	265.4	288.2	307.4	316.2	317.1
65°	850.5	1182.4	1879.6	543.0	196.2	215.5	241.7	265.4	282.9	289.9	291.7
67.5°	798.8	1071.2	1288.4	225.1	172.5	194.4	219.8	242.6	257.5	262.8	263.6
70°	679.7	896.9	748.9	149.8	155.9	178.7	198.8	216.3	226.0	228.6	227.7
72.5°	530.8	710.3	378.4	135.8	144.5	156.8	168.2	177.8	183.1	185.7	185.7
75°	388.9	519.4	177.8	120.0	107.7	118.2	129.6	135.8	137.5	138.4	138.4
77.5°	261.0	358.2	106.0	92.8	83.2	92.0	96.3	93.7	92.0	93.7	93.7
80°	157.7	220.7	92.8	67.4	63.9	64.8	61.3	61.3	64.8	66.6	65.7
82.5°	85.0	125.3	81.5	49.0	42.9	39.4	38.5	36.8	35.0	34.2	34.2
85°	39.4	63.9	52.6	29.8	22.8	16.6	13.1	9.6	8.8	7.0	7.0
87.5°	15.8	24.5	15.8	9.6	5.3	3.5	2.6	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)