

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: P685344

Luminaire Tested: **8CZL-10-UNV-L940-CD-U**

Issue Date: 05/10/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P685344  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 05/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8CZL-10-UNV-L940-CD-U  
Description: METALUX CRUZE LINEAR 8FT BASE MODEL @90 CRI and 4000K  
Light Source: (784) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

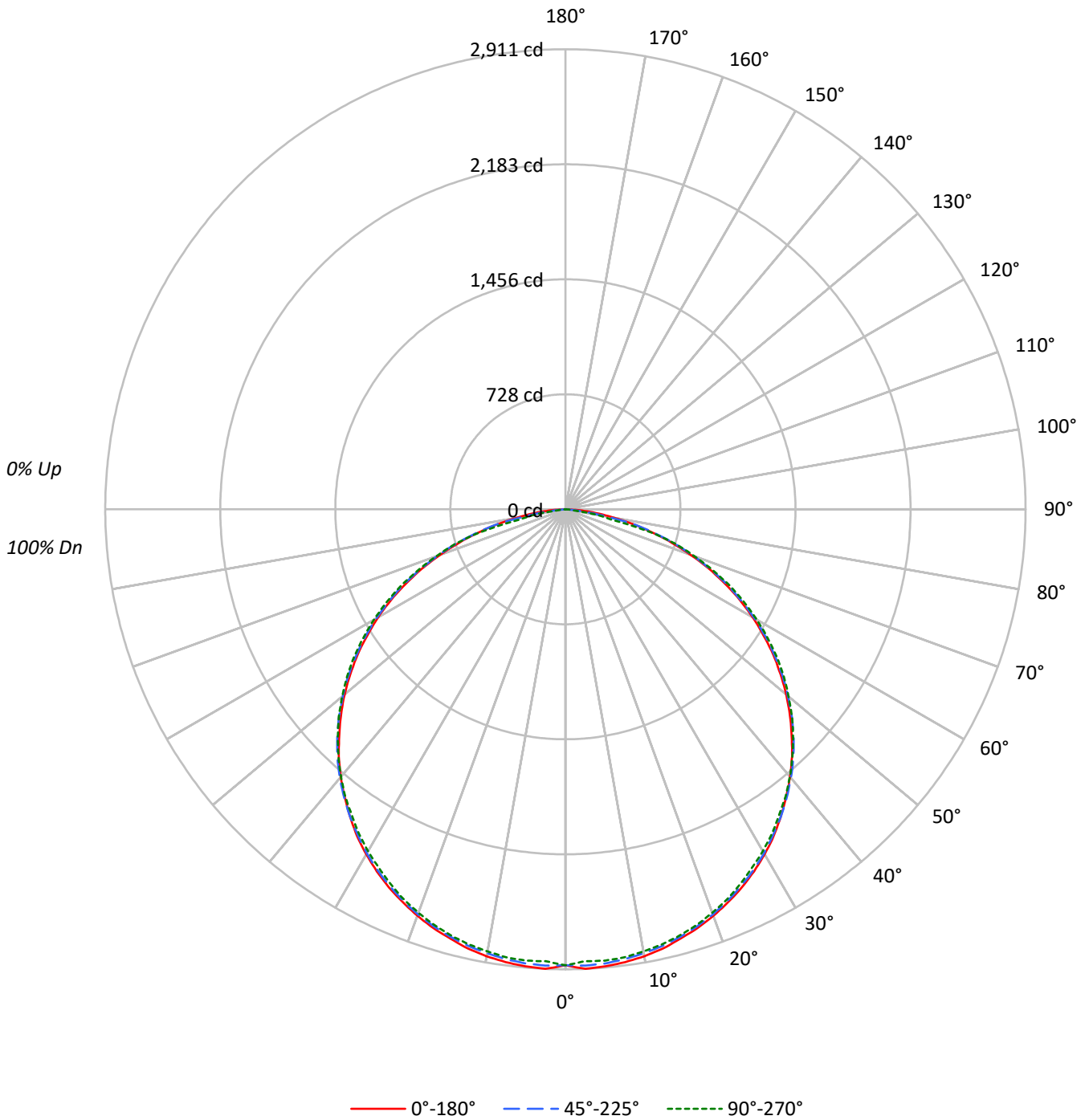
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8558.7 lumens  
Efficiency: N/A  
Efficacy: 135.9 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				
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°	4658	4658	4658
5°	4705	4675	4646
10°	4709	4677	4657
15°	4702	4683	4668
20°	4703	4687	4669
25°	4704	4686	4662
30°	4699	4686	4656
35°	4681	4681	4649
40°	4659	4678	4656
45°	4620	4660	4650
50°	4581	4614	4630
55°	4520	4552	4597
60°	4421	4461	4515
65°	4256	4317	4391
70°	3981	4060	4097
75°	3582	3648	3462
80°	2992	2436	1897
85°	2232	587	211



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	273.7	3.2
10°-20°	789.2	9.2
20°-30°	1208.5	14.1
30°-40°	1479.6	17.3
40°-50°	1565.3	18.3
50°-60°	1443.4	16.9
60°-70°	1113.4	13.0
70°-80°	594.7	6.9
80°-90°	91.0	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°	2271.3	26.5
0°-40°	3750.9	43.8
0°-60°	6759.6	79.0
0°-90°	8558.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8558.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2885	2885	2885	2885	2885	
5°	2903	2868	2884	2872	2867	276
15°	2813	2783	2802	2792	2793	795
25°	2641	2613	2630	2611	2617	1217
35°	2375	2361	2375	2355	2358	1486
45°	2023	2022	2041	2027	2037	1562
55°	1606	1604	1617	1627	1633	1432
65°	1114	1114	1130	1139	1149	1100
75°	574	573	585	589	555	608
85°	120	86	32	13	11	148
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2885.2	2885.2	2885.2	2885.2	2885.2
2.5°	2910.7	2876.4	2890.4	2879.9	2862.3
5°	2902.7	2868.4	2884.3	2872.0	2866.7
7.5°	2890.4	2855.3	2871.1	2861.4	2859.6
10°	2872.0	2835.9	2852.6	2842.1	2840.3
12.5°	2847.3	2812.2	2830.6	2818.3	2820.1
15°	2813.0	2783.1	2801.6	2791.9	2792.8
17.5°	2778.7	2748.0	2767.3	2757.6	2758.5
20°	2737.4	2707.5	2727.7	2712.8	2717.2
22.5°	2690.8	2664.4	2682.0	2662.7	2671.5
25°	2640.7	2613.4	2630.1	2610.8	2616.9
27.5°	2583.5	2558.0	2574.7	2554.5	2557.2
30°	2520.2	2497.4	2513.2	2493.0	2497.4
32.5°	2452.5	2432.3	2444.6	2426.1	2432.3
35°	2375.1	2361.1	2375.1	2354.9	2358.4
37.5°	2294.2	2280.2	2299.5	2281.9	2288.1
40°	2210.7	2197.5	2219.5	2201.9	2208.9
42.5°	2121.9	2112.2	2134.2	2116.6	2125.4
45°	2023.4	2022.5	2041.0	2026.9	2036.6
47.5°	1925.8	1924.0	1942.5	1932.8	1944.2
50°	1823.8	1822.0	1837.0	1836.1	1843.1
52.5°	1714.7	1717.4	1731.4	1734.1	1742.0
55°	1605.7	1603.9	1617.1	1626.8	1633.0
57.5°	1487.0	1490.5	1501.1	1512.5	1516.9
60°	1369.1	1367.4	1381.5	1391.1	1398.2
62.5°	1244.3	1244.3	1255.7	1269.8	1276.8
65°	1114.1	1114.1	1130.0	1138.8	1149.3
67.5°	981.4	978.7	992.8	1012.1	1010.4
70°	843.3	844.2	860.0	869.7	867.9
72.5°	706.1	708.8	725.5	729.9	734.3
75°	574.2	573.3	584.8	589.2	554.9
77.5°	443.2	444.1	451.1	330.6	290.2
80°	321.8	323.6	262.0	204.0	204.0
82.5°	212.8	209.3	134.5	79.1	58.0
85°	120.5	86.2	31.7	13.2	11.4
87.5°	49.2	15.8	8.8	6.2	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)