

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: P685584

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

Issue Date: 05/10/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P685584  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 05/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8CZL-10-UNV-FL-L940-CD-U  
Description: METALUX CRUZE LINEAR 8FT FROSTED LENS MODEL @90 CRI and 4000K  
Light Source: (784) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

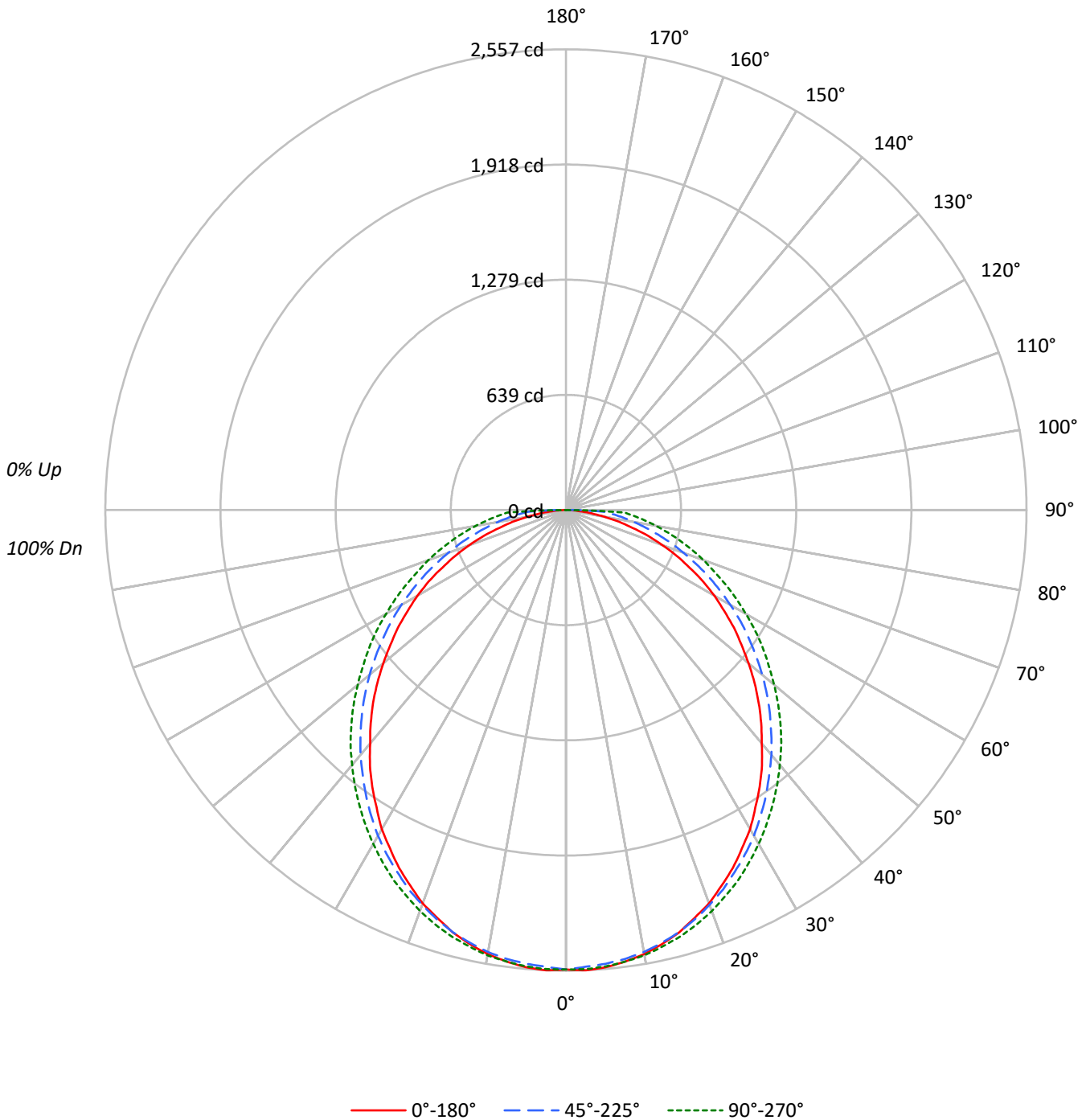
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7182.6 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 8' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 63  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	84	84	84	82
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	78	74	70	70	70	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	59	59	59	59	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	51	51	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	44	44	44	42
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	39	39	39	37
7	64	51	42	36	63	50	41	36	48	41	35	47	40	35	46	39	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	43	34	29	55	42	34	29	41	34	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	26	26	26	26	24

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

	0°	45°	90°
0°	4117	4117	4117
5°	4125	4070	4085
10°	4094	4029	4044
15°	4045	3971	3989
20°	3977	3897	3927
25°	3887	3810	3856
30°	3790	3723	3773
35°	3669	3617	3683
40°	3534	3510	3592
45°	3421	3391	3497
50°	3283	3268	3386
55°	3156	3134	3287
60°	3018	3000	3172
65°	2833	2857	3072
70°	2618	2698	3012
75°	2299	2564	2977
80°	1889	2477	3016
85°	1268	2533	3269



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.2	3.4
10°-20°	686.3	9.6
20°-30°	1025.1	14.3
30°-40°	1212.3	16.9
40°-50°	1235.3	17.2
50°-60°	1106.9	15.4
60°-70°	862.2	12.0
70°-80°	558.2	7.8
80°-90°	255.1	3.6
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°	1952.6	27.2
0°-40°	3164.9	44.1
0°-60°	5507.1	76.7
0°-90°	7182.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7182.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2550	2550	2550	2550	2550	
5°	2548	2543	2528	2543	2543	242
15°	2427	2427	2425	2448	2450	683
25°	2192	2200	2216	2256	2265	1009
35°	1875	1893	1935	1988	1999	1172
45°	1514	1541	1601	1662	1685	1166
55°	1138	1170	1237	1309	1334	1016
65°	758	791	873	946	977	753
75°	383	432	531	619	655	411
85°	77	148	259	352	378	98
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2549.9	2549.9	2549.9	2549.9	2549.9
2.5°	2557.2	2552.8	2537.3	2550.9	2550.4
5°	2547.5	2543.1	2528.1	2543.1	2542.6
7.5°	2527.6	2526.2	2512.6	2529.1	2527.6
10°	2501.9	2500.0	2491.3	2507.7	2510.2
12.5°	2468.0	2467.0	2460.2	2479.6	2481.1
15°	2426.8	2426.8	2425.3	2448.1	2450.5
17.5°	2374.0	2380.8	2382.2	2406.9	2412.3
20°	2323.6	2325.5	2332.3	2362.3	2368.6
22.5°	2257.2	2265.4	2279.0	2311.9	2317.3
25°	2192.2	2200.0	2216.4	2255.7	2265.4
27.5°	2116.6	2131.6	2154.4	2193.7	2203.4
30°	2044.9	2057.5	2087.0	2130.7	2140.3
32.5°	1957.1	1978.5	2012.4	2058.4	2071.5
35°	1875.2	1893.2	1935.3	1987.7	1999.3
37.5°	1787.5	1808.8	1853.4	1909.2	1925.2
40°	1691.5	1722.6	1774.4	1830.2	1847.1
42.5°	1603.8	1632.4	1687.2	1750.2	1769.6
45°	1513.7	1540.8	1600.9	1662.0	1684.7
47.5°	1419.6	1447.7	1513.2	1578.1	1598.5
50°	1323.2	1356.6	1422.1	1490.4	1508.8
52.5°	1227.2	1260.7	1330.0	1398.3	1419.1
55°	1138.0	1170.0	1237.4	1308.6	1334.3
57.5°	1041.1	1075.0	1149.2	1218.0	1245.6
60°	951.4	976.1	1054.7	1125.9	1152.6
62.5°	858.9	885.5	962.1	1035.3	1066.8
65°	758.0	791.0	872.9	946.1	976.6
67.5°	666.0	697.5	781.8	864.2	888.9
70°	570.5	606.8	694.1	778.4	813.3
72.5°	479.3	517.2	613.1	697.0	732.4
75°	382.9	431.9	530.7	618.9	655.3
77.5°	303.4	351.9	453.2	545.3	580.2
80°	215.2	274.8	384.4	477.4	508.4
82.5°	143.5	204.1	318.9	409.6	443.0
85°	76.6	147.8	258.8	352.4	378.1
87.5°	33.4	103.2	209.9	293.2	323.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)