

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: P685585

Luminaire Tested: **8CZL-14-UNV-FL-L940-CD-U**

Issue Date: 05/10/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P685585  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 05/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8CZL-14-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

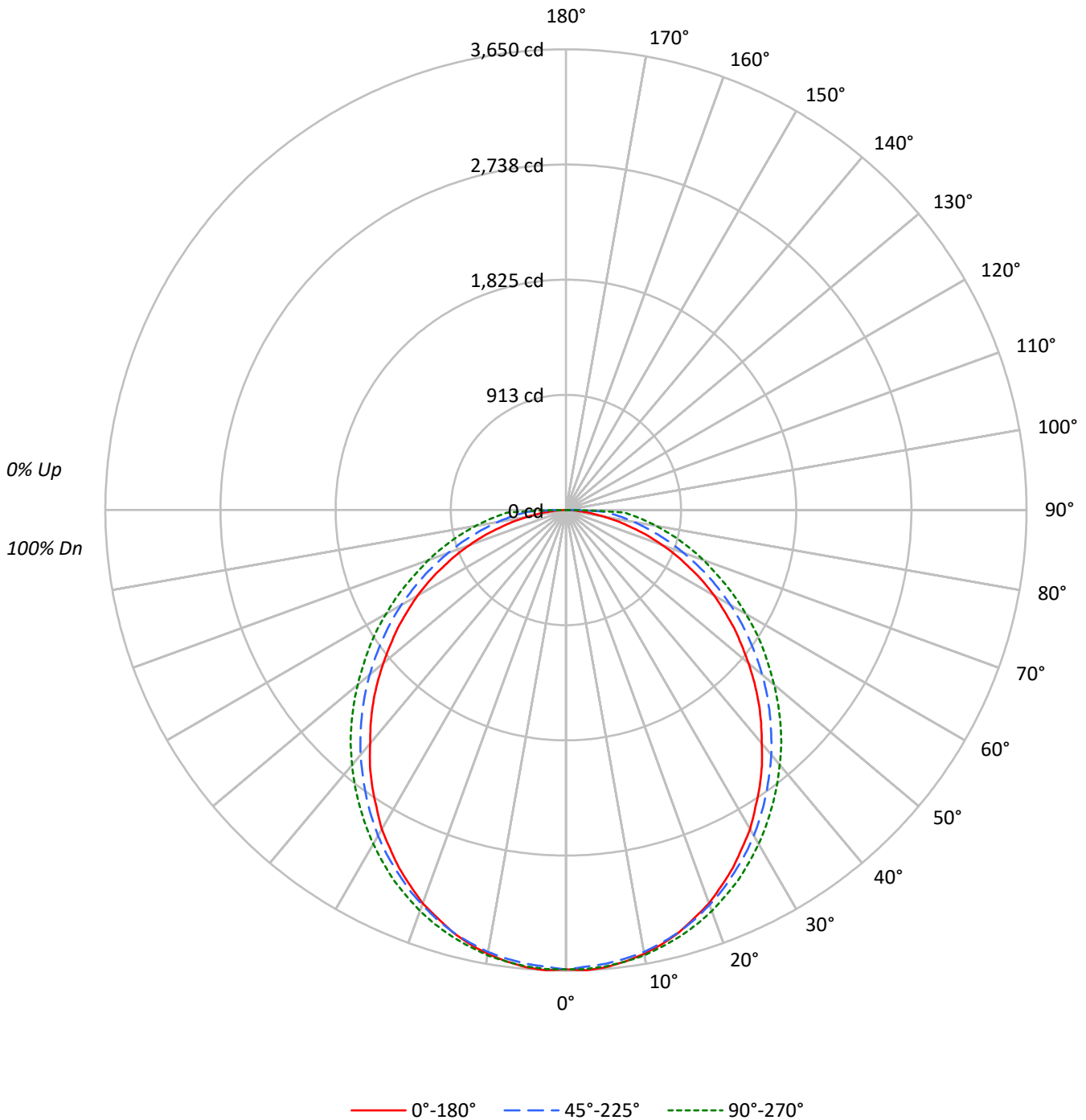
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10251.4 lumens  
Efficiency: N/A  
Efficacy: 115.2 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): 89  
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	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°	5876	5876	5876
5°	5888	5809	5831
10°	5844	5750	5772
15°	5774	5668	5694
20°	5677	5562	5605
25°	5547	5438	5504
30°	5409	5314	5385
35°	5237	5162	5257
40°	5045	5010	5126
45°	4882	4839	4991
50°	4685	4664	4833
55°	4505	4473	4691
60°	4307	4282	4528
65°	4043	4077	4385
70°	3737	3850	4299
75°	3282	3659	4249
80°	2696	3535	4306
85°	1809	3616	4665



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	344.3	3.4
10°-20°	979.6	9.6
20°-30°	1463.0	14.3
30°-40°	1730.3	16.9
40°-50°	1763.1	17.2
50°-60°	1579.9	15.4
60°-70°	1230.5	12.0
70°-80°	796.7	7.8
80°-90°	364.0	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°	2786.9	27.2
0°-40°	4517.2	44.1
0°-60°	7860.2	76.7
0°-90°	10251.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10251.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3639	3639	3639	3639	3639	
5°	3636	3630	3608	3630	3629	345
15°	3464	3464	3462	3494	3498	975
25°	3129	3140	3164	3220	3233	1440
35°	2676	2702	2762	2837	2854	1672
45°	2160	2199	2285	2372	2405	1665
55°	1624	1670	1766	1868	1904	1450
65°	1082	1129	1246	1350	1394	1075
75°	546	616	758	883	935	586
85°	109	211	369	503	540	140
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3639.4	3639.4	3639.4	3639.4	3639.4
2.5°	3649.8	3643.6	3621.4	3640.8	3640.1
5°	3635.9	3629.7	3608.3	3629.7	3629.0
7.5°	3607.6	3605.5	3586.1	3609.7	3607.6
10°	3570.9	3568.1	3555.7	3579.2	3582.7
12.5°	3522.5	3521.1	3511.4	3539.1	3541.2
15°	3463.7	3463.7	3461.6	3494.1	3497.6
17.5°	3388.3	3398.0	3400.0	3435.3	3442.9
20°	3316.3	3319.1	3328.8	3371.7	3380.7
22.5°	3221.6	3233.3	3252.7	3299.7	3307.4
25°	3128.9	3139.9	3163.5	3219.5	3233.3
27.5°	3021.0	3042.4	3074.9	3131.0	3144.8
30°	2918.6	2936.6	2978.8	3041.0	3054.9
32.5°	2793.4	2823.8	2872.2	2937.9	2956.6
35°	2676.5	2702.1	2762.2	2836.9	2853.6
37.5°	2551.2	2581.7	2645.3	2724.9	2747.7
40°	2414.3	2458.6	2532.6	2612.1	2636.3
42.5°	2289.1	2329.9	2408.1	2498.0	2525.7
45°	2160.4	2199.1	2284.9	2372.1	2404.6
47.5°	2026.2	2066.3	2159.7	2252.4	2281.5
50°	1888.5	1936.3	2029.7	2127.2	2153.5
52.5°	1751.6	1799.3	1898.2	1995.8	2025.5
55°	1624.3	1669.9	1766.1	1867.8	1904.4
57.5°	1485.9	1534.3	1640.2	1738.4	1777.8
60°	1357.9	1393.2	1505.3	1607.0	1645.0
62.5°	1225.8	1263.9	1373.2	1477.6	1522.6
65°	1081.9	1129.0	1245.9	1350.3	1393.9
67.5°	950.5	995.5	1115.8	1233.4	1268.7
70°	814.2	866.1	990.6	1111.0	1160.8
72.5°	684.2	738.1	875.1	994.8	1045.3
75°	546.5	616.4	757.5	883.4	935.3
77.5°	433.0	502.2	646.8	778.2	828.0
80°	307.1	392.2	548.6	681.4	725.7
82.5°	204.8	291.2	455.2	584.5	632.3
85°	109.3	211.0	369.4	502.9	539.6
87.5°	47.7	147.3	299.5	418.5	462.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)