

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: P685348

Luminaire Tested: **8CZL-32-UNV-L940-CD-U**

Issue Date: 05/10/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P685348  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 05/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8CZL-32-UNV-L940-CD-U  
Description: METALUX CRUZE LINEAR 8FT BASE MODEL @90 CRI and 4000K  
Light Source: (1176) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

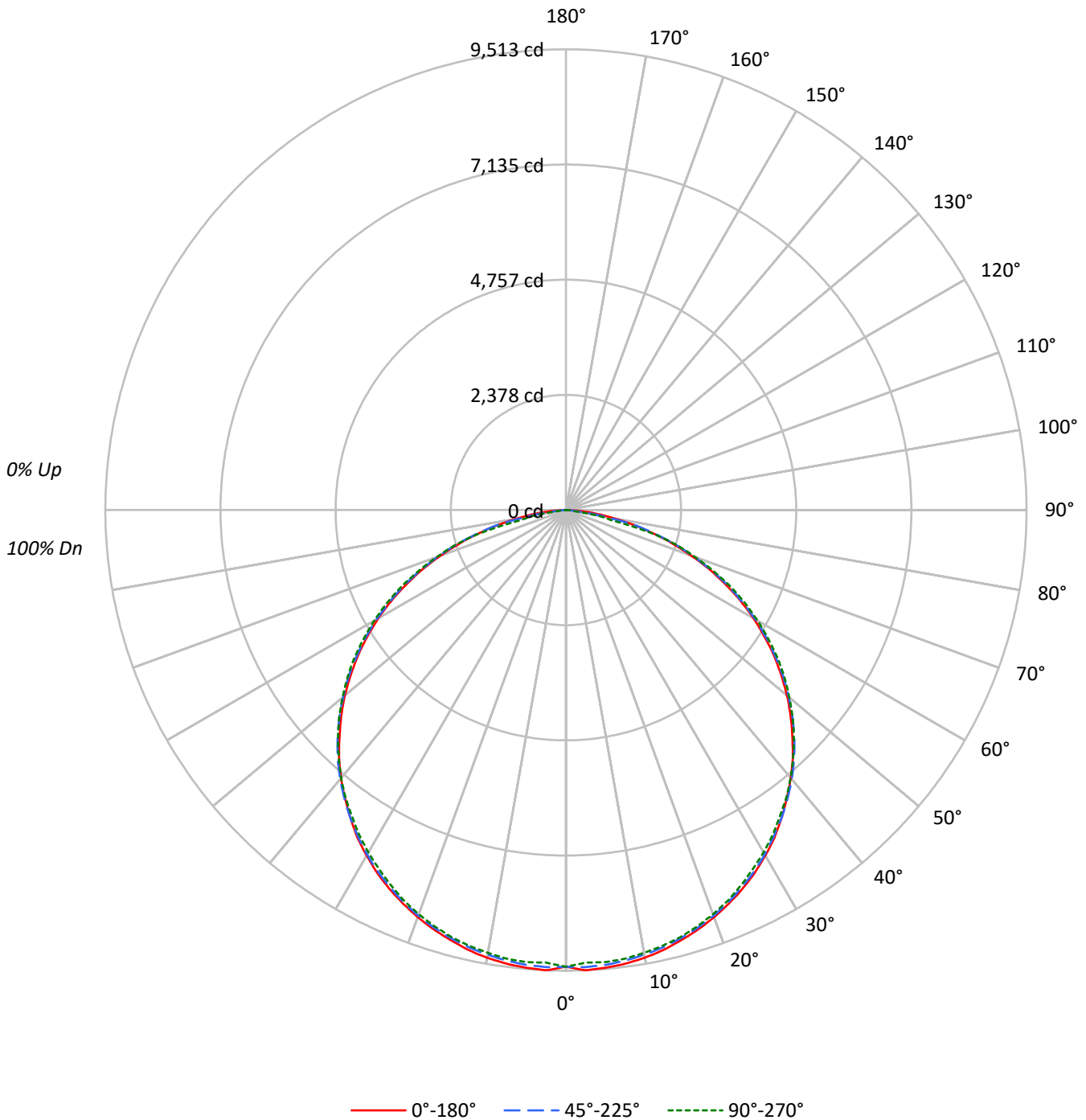
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27973.4 lumens  
Efficiency: N/A  
Efficacy: 135.8 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): 206  
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	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°	15225	15225	15225
5°	15377	15279	15186
10°	15390	15286	15220
15°	15369	15306	15258
20°	15373	15319	15259
25°	15376	15315	15238
30°	15357	15314	15218
35°	15301	15301	15193
40°	15229	15290	15217
45°	15101	15232	15199
50°	14973	15081	15132
55°	14773	14878	15024
60°	14451	14580	14757
65°	13912	14110	14351
70°	13012	13270	13391
75°	11708	11923	11314
80°	9781	7964	6200
85°	7295	1917	693



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	894.6	3.2
10°-20°	2579.3	9.2
20°-30°	3949.8	14.1
30°-40°	4835.9	17.3
40°-50°	5115.9	18.3
50°-60°	4717.6	16.9
60°-70°	3639.2	13.0
70°-80°	1943.6	6.9
80°-90°	297.4	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°	7423.7	26.5
0°-40°	12259.6	43.8
0°-60°	22093.1	79.0
0°-90°	27973.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27973.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9430	9430	9430	9430	9430	
5°	9487	9375	9427	9387	9370	902
15°	9194	9096	9157	9125	9128	2598
25°	8631	8542	8596	8533	8553	3978
35°	7763	7717	7763	7697	7708	4857
45°	6613	6610	6671	6625	6656	5105
55°	5248	5242	5286	5317	5337	4682
65°	3642	3642	3693	3722	3756	3595
75°	1877	1874	1911	1926	1814	1987
85°	394	282	104	43	37	483
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9429.9	9429.9	9429.9	9429.9	9429.9
2.5°	9513.3	9401.2	9447.2	9412.7	9355.2
5°	9487.4	9375.3	9427.0	9386.8	9369.6
7.5°	9447.2	9332.2	9383.9	9352.3	9346.6
10°	9386.8	9269.0	9323.6	9289.1	9283.3
12.5°	9306.3	9191.4	9251.7	9211.5	9217.2
15°	9194.2	9096.5	9156.9	9125.3	9128.1
17.5°	9082.1	8981.6	9044.8	9013.2	9016.0
20°	8947.1	8849.3	8915.5	8866.6	8881.0
22.5°	8794.7	8708.5	8766.0	8702.8	8731.5
25°	8630.9	8541.8	8596.4	8533.2	8553.3
27.5°	8444.1	8360.8	8415.4	8349.3	8357.9
30°	8237.2	8162.4	8214.2	8148.1	8162.4
32.5°	8015.9	7949.8	7990.0	7929.6	7949.8
35°	7762.9	7717.0	7762.9	7696.8	7708.3
37.5°	7498.5	7452.5	7515.8	7458.3	7478.4
40°	7225.5	7182.4	7254.2	7196.7	7219.7
42.5°	6935.2	6903.6	6975.4	6918.0	6946.7
45°	6613.3	6610.4	6670.8	6624.8	6656.4
47.5°	6294.3	6288.5	6348.9	6317.3	6354.6
50°	5960.9	5955.1	6004.0	6001.1	6024.1
52.5°	5604.5	5613.1	5659.1	5667.7	5693.6
55°	5248.1	5242.4	5285.5	5317.1	5337.2
57.5°	4860.1	4871.6	4906.1	4943.4	4957.8
60°	4475.0	4469.2	4515.2	4546.8	4569.8
62.5°	4066.8	4066.8	4104.2	4150.2	4173.2
65°	3641.5	3641.5	3693.2	3722.0	3756.4
67.5°	3207.5	3198.9	3244.9	3308.1	3302.3
70°	2756.3	2759.1	2810.9	2842.5	2836.7
72.5°	2307.9	2316.5	2371.1	2385.5	2399.9
75°	1876.8	1873.9	1911.3	1925.6	1813.6
77.5°	1448.5	1451.4	1474.4	1080.7	948.5
80°	1051.9	1057.7	856.5	666.8	666.8
82.5°	695.5	684.0	439.7	258.7	189.7
85°	393.8	281.7	103.5	43.1	37.4
87.5°	160.9	51.7	28.7	20.1	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)