

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: P685415

Luminaire Tested: **8CZL-14-UNV-N-L950-CD-U**

Issue Date: 05/10/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P685415  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 05/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8CZL-14-UNV-N-L950-CD-U  
Description: METALUX CRUZE LINEAR 8FT NARROW LENS MODEL @90 CRI and 5000K  
Light Source: (784) 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

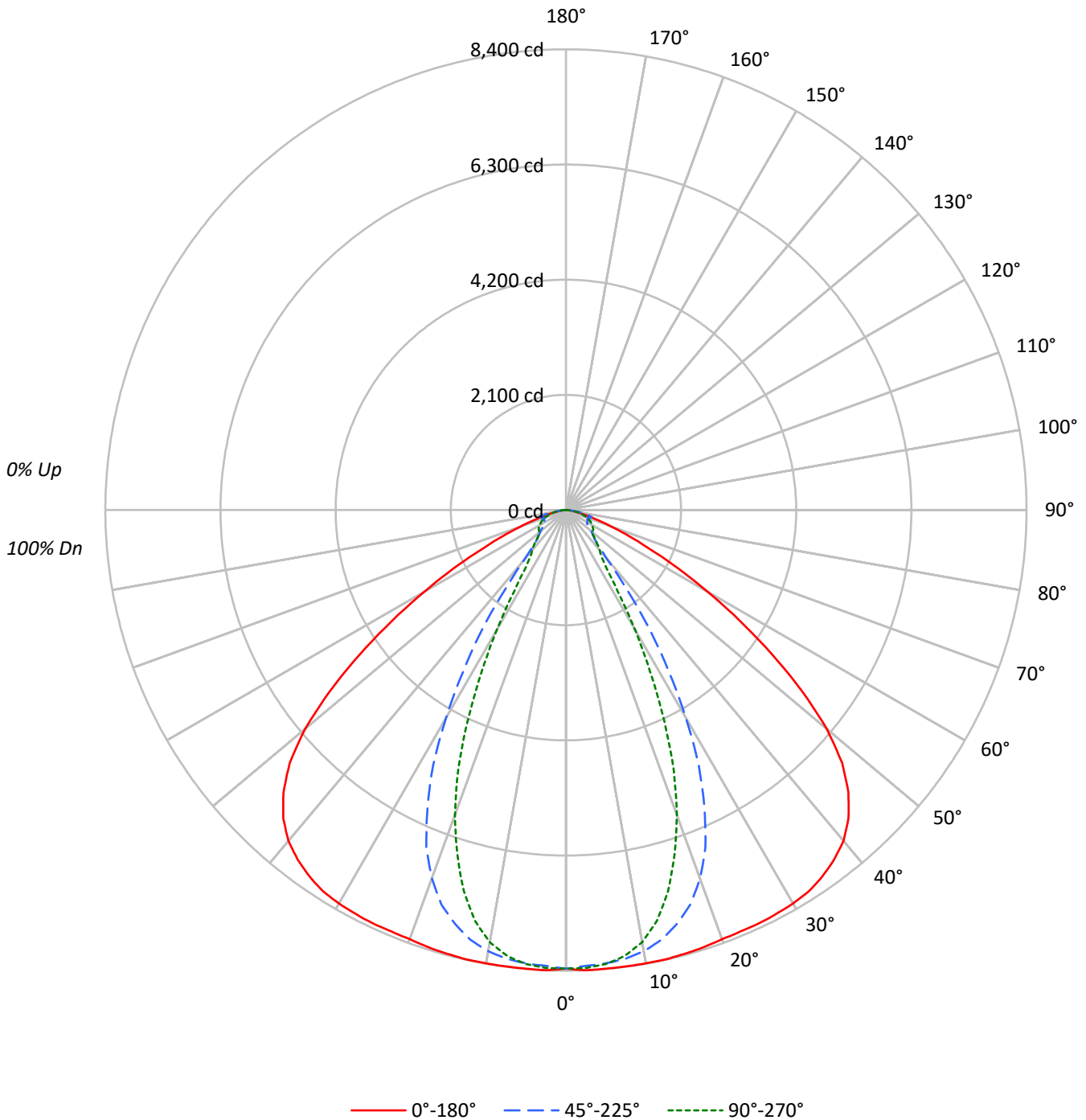
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11806.8 lumens  
Efficiency: N/A  
Efficacy: 132.7 lumens/watt  
Spacing Criteria (0/90/45): 1.48 / 0.81 / 0.89  
Luminous Opening: Rectangular (W 0.83' x L: 8' x H: 0')  
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	
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80	79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	68	88	79	72	67	77	71	66	74	70	66	72	68	65	63
5	84	74	66	61	82	73	66	60	71	64	60	69	63	59	67	62	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37

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

	0°	45°	90°
0°	13503	13503	13503
5°	13608	13451	13472
10°	13759	13394	13116
15°	13999	13062	12025
20°	14308	12284	10166
25°	14822	10646	7554
30°	15442	8154	4687
35°	16077	5271	2514
40°	16598	2454	2013
45°	16634	1665	1714
50°	15595	1525	1578
55°	12893	1375	1711
60°	9650	1449	1757
65°	6505	1657	1882
70°	4129	2020	1936
75°	2492	3010	1932
80°	1520	2686	1800
85°	984	1740	1236



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	791.7	6.7
10°-20°	2185.8	18.5
20°-30°	2791.6	23.6
30°-40°	2264.1	19.2
40°-50°	1602.0	13.6
50°-60°	1043.4	8.8
60°-70°	640.7	5.4
70°-80°	380.6	3.2
80°-90°	106.9	0.9
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°	5769.1	48.9
0°-40°	8033.2	68.0
0°-60°	10678.6	90.4
0°-90°	11806.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11806.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8363	8363	8363	8363	8363	
5°	8396	8378	8299	8333	8312	801
15°	8375	8262	7814	7409	7194	2372
25°	8320	7633	5976	4646	4240	3847
35°	8156	5537	2674	1435	1276	5101
45°	7285	2788	729	775	751	5556
55°	4580	938	488	570	608	4093
65°	1703	481	434	520	493	1769
75°	399	273	482	354	310	466
85°	53	106	94	84	67	74
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8362.9	8362.9	8362.9	8362.9	8362.9
2.5°	8400.2	8383.7	8319.9	8370.1	8355.8
5°	8395.9	8378.0	8299.1	8332.8	8312.0
7.5°	8393.0	8366.5	8254.7	8244.6	8201.6
10°	8392.3	8345.7	8169.3	8072.6	8000.1
12.5°	8393.8	8311.3	8029.5	7815.9	7668.9
15°	8375.1	8261.8	7814.4	7408.6	7194.2
17.5°	8357.9	8148.6	7543.4	6910.3	6588.4
20°	8327.1	8036.7	7149.1	6299.4	5916.6
22.5°	8318.5	7867.5	6650.8	5512.9	5133.6
25°	8319.9	7633.0	5976.1	4646.1	4240.3
27.5°	8304.1	7320.4	5241.2	3807.9	3327.5
30°	8282.6	6877.3	4373.6	2909.5	2513.8
32.5°	8244.6	6255.7	3485.3	2073.5	1745.1
35°	8156.4	5537.3	2674.4	1434.7	1275.5
37.5°	8033.8	4738.6	1803.2	1076.9	1051.1
40°	7874.7	4013.7	1164.4	941.4	955.0
42.5°	7628.0	3387.8	850.3	856.1	857.5
45°	7284.6	2787.6	729.2	775.1	750.7
47.5°	6832.9	2189.0	662.5	675.4	671.8
50°	6208.4	1639.0	607.3	604.4	628.1
52.5°	5436.2	1212.4	550.6	575.0	619.5
55°	4580.1	938.5	488.3	570.0	608.0
57.5°	3759.2	760.7	452.4	555.7	577.9
60°	2988.4	633.8	448.8	529.1	544.2
62.5°	2308.7	543.5	446.7	516.2	522.0
65°	1702.8	481.1	433.8	520.5	492.6
67.5°	1240.4	461.0	423.7	513.4	453.9
70°	874.7	405.1	428.0	473.9	410.1
72.5°	593.7	338.4	476.1	418.0	359.2
75°	399.4	273.2	482.5	353.5	309.7
77.5°	259.5	227.3	410.1	288.9	256.7
80°	163.5	189.3	288.9	222.3	193.6
82.5°	106.1	145.5	182.8	157.0	133.4
85°	53.1	106.1	93.9	83.9	66.7
87.5°	31.5	64.5	50.2	36.6	33.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)