

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: P685366

Luminaire Tested: **8CZL-18-UNV-N-L835-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685366
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-18-UNV-N-L835-CD-U
Description: METALUX CRUZE LINEAR 8FT NARROW LENS MODEL @80 CRI and 3500K
Light Source: (1176) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

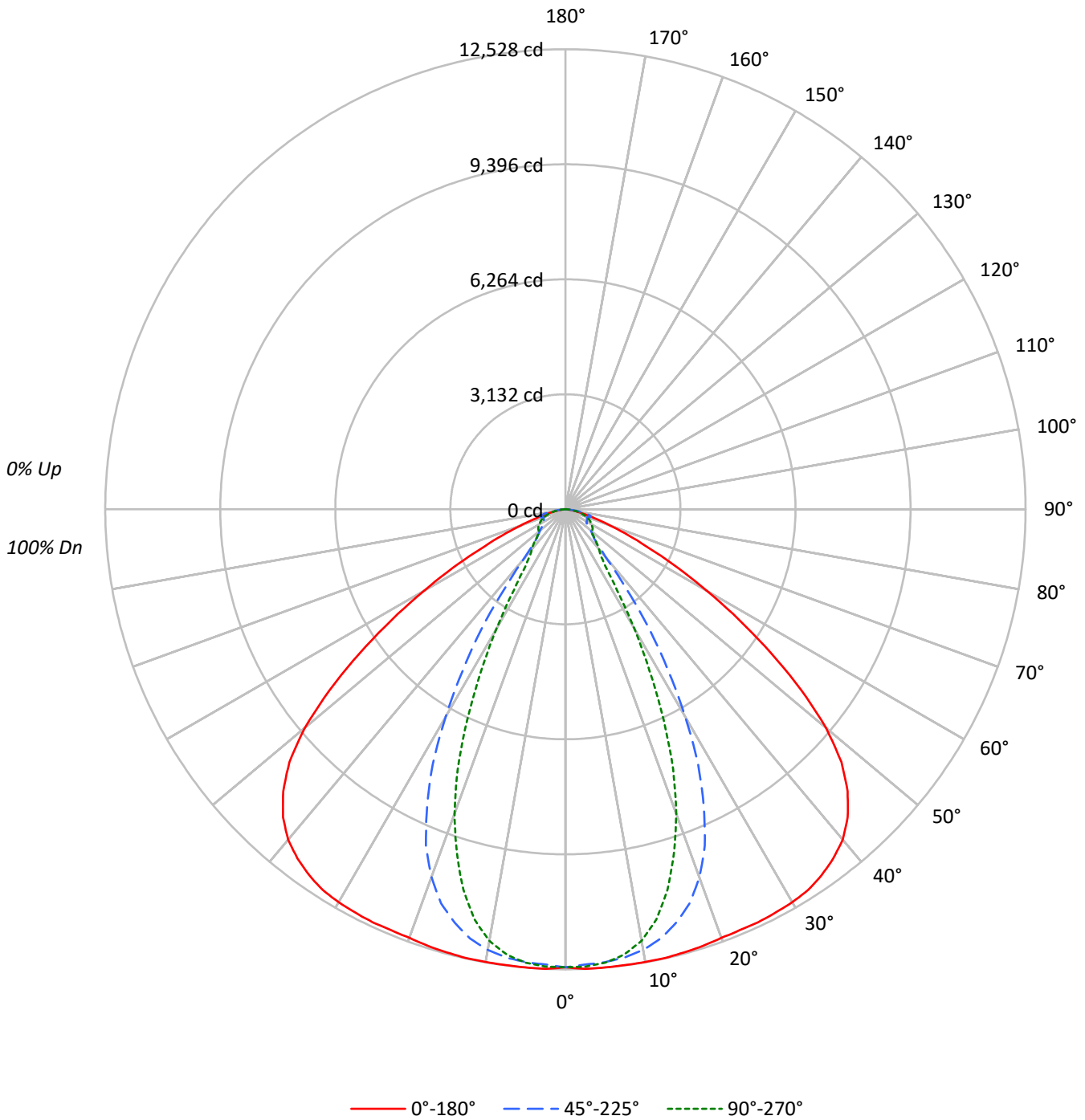
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17609.4 lumens
Efficiency: N/A
Efficacy: 161.6 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): 109
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
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°	20139	20139	20139
5°	20295	20061	20093
10°	20521	19976	19562
15°	20880	19482	17936
20°	21339	18320	15162
25°	22106	15879	11267
30°	23031	12161	6990
35°	23978	7862	3750
40°	24754	3660	3002
45°	24808	2483	2556
50°	23259	2275	2353
55°	19229	2050	2553
60°	14393	2162	2621
65°	9703	2472	2807
70°	6159	3014	2888
75°	3716	4490	2882
80°	2267	4007	2684
85°	1465	2595	1841



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1180.8	6.7
10°-20°	3260.0	18.5
20°-30°	4163.5	23.6
30°-40°	3376.9	19.2
40°-50°	2389.3	13.6
50°-60°	1556.1	8.8
60°-70°	955.6	5.4
70°-80°	567.6	3.2
80°-90°	159.5	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°	8604.3	48.9
0°-40°	11981.2	68.0
0°-60°	15926.7	90.4
0°-90°	17609.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17609.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12473	12473	12473	12473	12473	
5°	12522	12495	12378	12428	12397	1195
15°	12491	12322	11655	11050	10730	3538
25°	12409	11384	8913	6929	6324	5737
35°	12165	8259	3989	2140	1902	7608
45°	10865	4158	1088	1156	1120	8287
55°	6831	1400	728	850	907	6105
65°	2540	718	647	776	735	2639
75°	596	407	720	527	462	695
85°	79	158	140	125	99	111
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12472.9	12472.9	12472.9	12472.9	12472.9
2.5°	12528.5	12504.0	12408.8	12483.6	12462.2
5°	12522.1	12495.4	12377.8	12428.0	12397.0
7.5°	12517.9	12478.3	12311.5	12296.5	12232.3
10°	12516.8	12447.3	12184.2	12039.9	11931.8
12.5°	12518.9	12395.9	11975.7	11657.0	11437.8
15°	12491.1	12322.2	11654.9	11049.6	10729.9
17.5°	12465.5	12153.2	11250.7	10306.4	9826.3
20°	12419.5	11986.4	10662.5	9395.3	8824.3
22.5°	12406.6	11734.0	9919.3	8222.3	7656.6
25°	12408.8	11384.3	8913.1	6929.4	6324.2
27.5°	12385.3	10918.1	7817.0	5679.3	4962.9
30°	12353.2	10257.2	6523.1	4339.4	3749.2
32.5°	12296.5	9330.1	5198.1	3092.6	2602.8
35°	12165.0	8258.6	3988.7	2139.8	1902.4
37.5°	11982.1	7067.4	2689.4	1606.2	1567.7
40°	11744.7	5986.2	1736.6	1404.1	1424.4
42.5°	11376.9	5052.7	1268.3	1276.8	1278.9
45°	10864.6	4157.6	1087.5	1156.0	1119.6
47.5°	10190.9	3264.7	988.1	1007.3	1002.0
50°	9259.5	2444.5	905.7	901.5	936.8
52.5°	8107.8	1808.3	821.3	857.6	923.9
55°	6831.0	1399.8	728.2	850.1	906.8
57.5°	5606.6	1134.6	674.8	828.7	861.9
60°	4457.1	945.3	669.4	789.2	811.6
62.5°	3443.3	810.6	666.2	769.9	778.5
65°	2539.7	717.5	647.0	776.4	734.6
67.5°	1850.0	687.6	632.0	765.7	676.9
70°	1304.6	604.2	638.4	706.8	611.7
72.5°	885.4	504.7	710.1	623.4	535.7
75°	595.6	407.4	719.7	527.2	462.0
77.5°	387.1	339.0	611.7	430.9	382.8
80°	243.8	282.3	430.9	331.5	288.7
82.5°	158.3	217.1	272.7	234.2	198.9
85°	79.1	158.3	140.1	125.1	99.4
87.5°	47.1	96.2	74.9	54.5	50.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)