

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: P685385

Luminaire Tested: **8CZL-14-UNV-N-L850-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685385
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-L850-CD-U
Description: METALUX CRUZE LINEAR 8FT NARROW LENS MODEL @80 CRI and 5000K
Light Source: (784) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

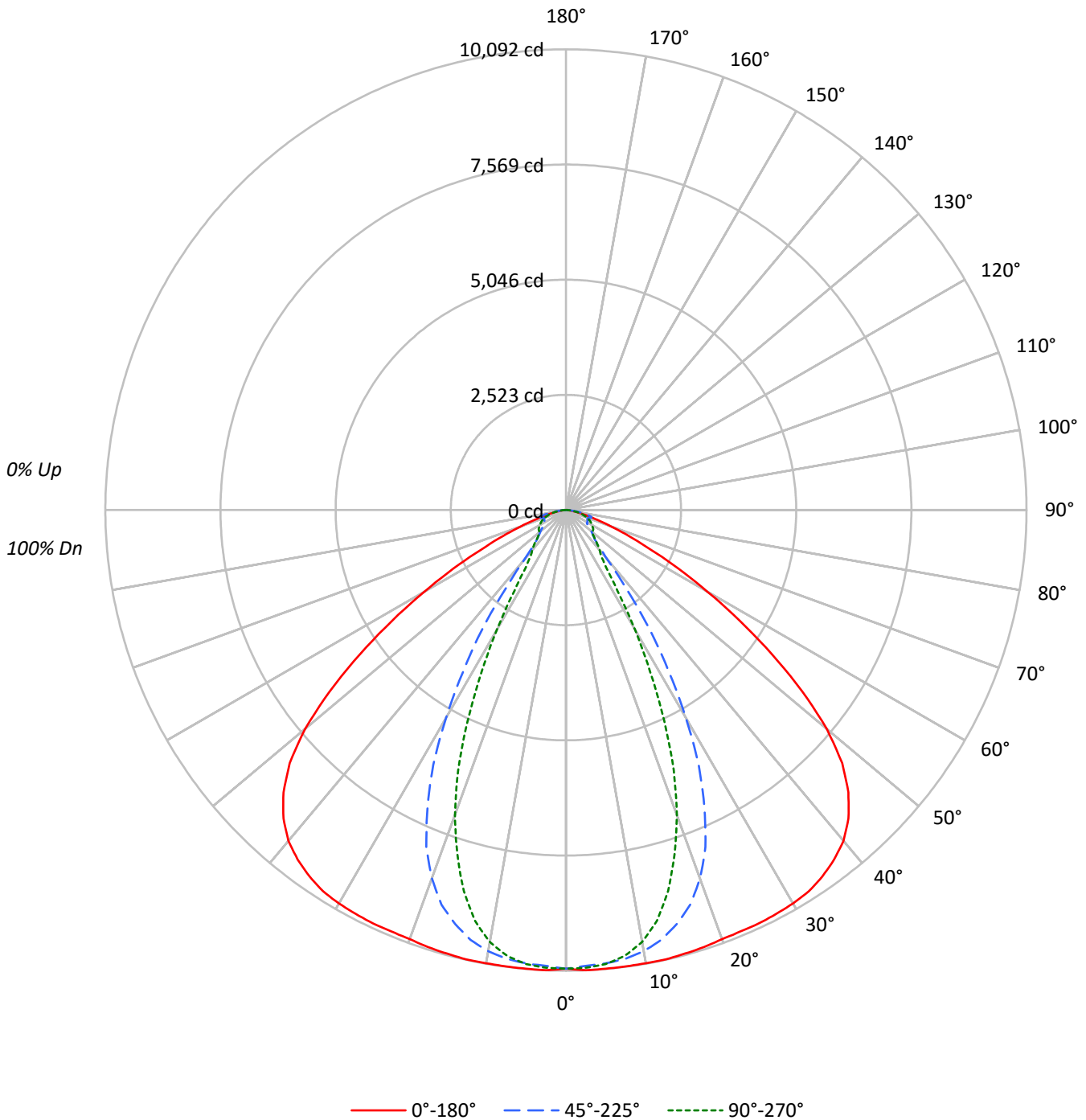
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14184.0 lumens
Efficiency: N/A
Efficacy: 159.4 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°	16221	16221	16221
5°	16347	16159	16184
10°	16529	16090	15757
15°	16818	15692	14447
20°	17189	14757	12213
25°	17806	12790	9075
30°	18551	9796	5630
35°	19314	6333	3020
40°	19939	2948	2418
45°	19983	2000	2059
50°	18734	1833	1895
55°	15489	1651	2056
60°	11593	1741	2111
65°	7816	1991	2261
70°	4961	2427	2326
75°	2993	3616	2321
80°	1826	3227	2163
85°	1180	2090	1484



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	951.1	6.7
10°-20°	2625.9	18.5
20°-30°	3353.6	23.6
30°-40°	2720.0	19.2
40°-50°	1924.6	13.6
50°-60°	1253.4	8.8
60°-70°	769.7	5.4
70°-80°	457.2	3.2
80°-90°	128.5	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°	6930.6	48.9
0°-40°	9650.6	68.0
0°-60°	12828.6	90.4
0°-90°	14184.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14184.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10047	10047	10047	10047	10047	
5°	10086	10065	9970	10010	9986	963
15°	10061	9925	9388	8900	8643	2850
25°	9995	9170	7179	5582	5094	4621
35°	9799	6652	3213	1724	1532	6128
45°	8751	3349	876	931	902	6675
55°	5502	1128	587	685	730	4917
65°	2046	578	521	625	592	2125
75°	480	328	580	425	372	560
85°	64	128	113	101	80	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10046.7	10046.7	10046.7	10046.7	10046.7
2.5°	10091.5	10071.7	9995.0	10055.3	10038.1
5°	10086.3	10064.8	9970.1	10010.5	9985.6
7.5°	10082.9	10051.0	9916.7	9904.6	9852.9
10°	10082.0	10026.1	9814.2	9697.9	9610.9
12.5°	10083.8	9984.7	9646.2	9389.5	9212.9
15°	10061.4	9925.3	9387.8	8900.3	8642.7
17.5°	10040.7	9789.2	9062.2	8301.6	7914.9
20°	10003.7	9654.8	8588.5	7567.8	7107.8
22.5°	9993.3	9451.5	7989.8	6622.9	6167.2
25°	9995.0	9169.9	7179.3	5581.5	5094.0
27.5°	9976.1	8794.3	6296.4	4574.6	3997.5
30°	9950.3	8262.0	5254.2	3495.3	3019.9
32.5°	9904.6	7515.2	4187.0	2491.0	2096.5
35°	9798.7	6652.2	3212.8	1723.6	1532.3
37.5°	9651.4	5692.6	2166.3	1293.7	1262.7
40°	9460.1	4821.8	1398.8	1130.9	1147.3
42.5°	9163.8	4069.9	1021.6	1028.4	1030.2
45°	8751.3	3348.9	876.0	931.1	901.8
47.5°	8208.6	2629.7	795.9	811.4	807.1
50°	7458.4	1969.0	729.6	726.1	754.5
52.5°	6530.7	1456.5	661.5	690.8	744.2
55°	5502.3	1127.5	586.6	684.8	730.4
57.5°	4516.0	913.9	543.5	667.5	694.2
60°	3590.1	761.4	539.2	635.7	653.8
62.5°	2773.5	652.9	536.6	620.2	627.1
65°	2045.7	578.0	521.1	625.3	591.7
67.5°	1490.1	553.8	509.1	616.7	545.2
70°	1050.8	486.7	514.2	569.3	492.7
72.5°	713.2	406.6	571.9	502.2	431.5
75°	479.8	328.2	579.7	424.6	372.1
77.5°	311.8	273.0	492.7	347.1	308.4
80°	196.4	227.4	347.1	267.0	232.6
82.5°	127.5	174.9	219.6	188.6	160.2
85°	63.7	127.5	112.8	100.8	80.1
87.5°	37.9	77.5	60.3	43.9	40.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)