

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: P685305

Luminaire Tested: **8CZL-14-UNV-L835-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685305
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-14-UNV-L835-CD-U
Description: METALUX CRUZE LINEAR 8FT BASE MODEL @80 CRI and 3500K
Light Source: (784) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

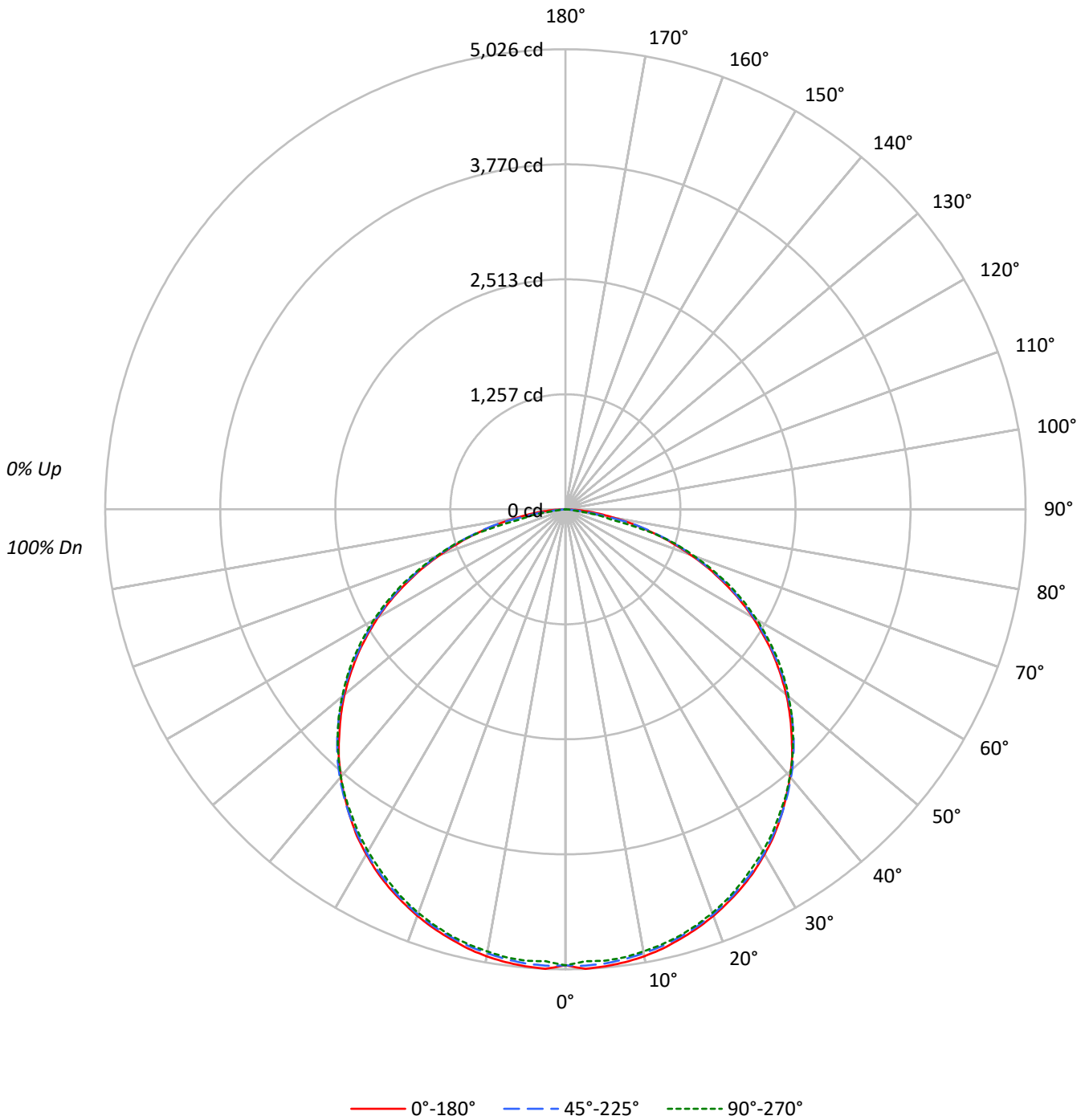
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14778.6 lumens
Efficiency: N/A
Efficacy: 166.1 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): 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	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°	8044	8044	8044
5°	8124	8072	8023
10°	8131	8076	8041
15°	8119	8086	8061
20°	8122	8093	8062
25°	8123	8091	8050
30°	8113	8091	8040
35°	8084	8084	8027
40°	8046	8078	8039
45°	7978	8047	8030
50°	7910	7968	7994
55°	7805	7860	7937
60°	7634	7703	7796
65°	7350	7454	7582
70°	6874	7010	7075
75°	6185	6299	5977
80°	5167	4207	3276
85°	3853	1013	365



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.6	3.2
10°-20°	1362.7	9.2
20°-30°	2086.7	14.1
30°-40°	2554.9	17.3
40°-50°	2702.8	18.3
50°-60°	2492.4	16.9
60°-70°	1922.6	13.0
70°-80°	1026.8	6.9
80°-90°	157.1	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°	3922.0	26.5
0°-40°	6476.9	43.8
0°-60°	11672.0	79.0
0°-90°	14778.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14778.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4982	4982	4982	4982	4982	
5°	5012	4953	4980	4959	4950	477
15°	4857	4806	4838	4821	4822	1373
25°	4560	4513	4542	4508	4519	2102
35°	4101	4077	4101	4066	4072	2566
45°	3494	3492	3524	3500	3517	2697
55°	2773	2770	2792	2809	2820	2473
65°	1924	1924	1951	1966	1985	1899
75°	992	990	1010	1017	958	1050
85°	208	149	55	23	20	255
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4981.9	4981.9	4981.9	4981.9	4981.9
2.5°	5026.0	4966.7	4991.0	4972.8	4942.5
5°	5012.3	4953.1	4980.4	4959.2	4950.0
7.5°	4991.0	4930.3	4957.6	4940.9	4937.9
10°	4959.2	4896.9	4925.7	4907.5	4904.5
12.5°	4916.6	4855.9	4887.8	4866.5	4869.6
15°	4857.4	4805.8	4837.7	4821.0	4822.5
17.5°	4798.2	4745.1	4778.5	4761.8	4763.3
20°	4726.8	4675.2	4710.1	4684.3	4691.9
22.5°	4646.4	4600.8	4631.2	4597.8	4613.0
25°	4559.8	4512.7	4541.6	4508.2	4518.8
27.5°	4461.1	4417.1	4445.9	4411.0	4415.6
30°	4351.8	4312.3	4339.6	4304.7	4312.3
32.5°	4234.9	4199.9	4221.2	4189.3	4199.9
35°	4101.2	4077.0	4101.2	4066.3	4072.4
37.5°	3961.6	3937.3	3970.7	3940.3	3950.9
40°	3817.3	3794.5	3832.5	3802.1	3814.3
42.5°	3663.9	3647.2	3685.2	3654.8	3670.0
45°	3493.9	3492.4	3524.2	3500.0	3516.7
47.5°	3325.3	3322.3	3354.2	3337.5	3357.2
50°	3149.2	3146.2	3172.0	3170.5	3182.6
52.5°	2960.9	2965.5	2989.8	2994.3	3008.0
55°	2772.6	2769.6	2792.4	2809.1	2819.7
57.5°	2567.6	2573.7	2591.9	2611.7	2619.3
60°	2364.2	2361.1	2385.4	2402.1	2414.3
62.5°	2148.6	2148.6	2168.3	2192.6	2204.7
65°	1923.8	1923.8	1951.2	1966.4	1984.6
67.5°	1694.6	1690.0	1714.3	1747.7	1744.7
70°	1456.2	1457.7	1485.0	1501.7	1498.7
72.5°	1219.3	1223.8	1252.7	1260.3	1267.9
75°	991.5	990.0	1009.7	1017.3	958.1
77.5°	765.3	766.8	778.9	570.9	501.1
80°	555.7	558.8	452.5	352.3	352.3
82.5°	367.5	361.4	232.3	136.7	100.2
85°	208.0	148.8	54.7	22.8	19.7
87.5°	85.0	27.3	15.2	10.6	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)