

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: P685387

Luminaire Tested: **8CZL-24-UNV-N-L850-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685387
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-24-UNV-N-L850-CD-U
Description: METALUX CRUZE LINEAR 8FT NARROW LENS MODEL @80 CRI and 5000K
Light Source: (1176) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

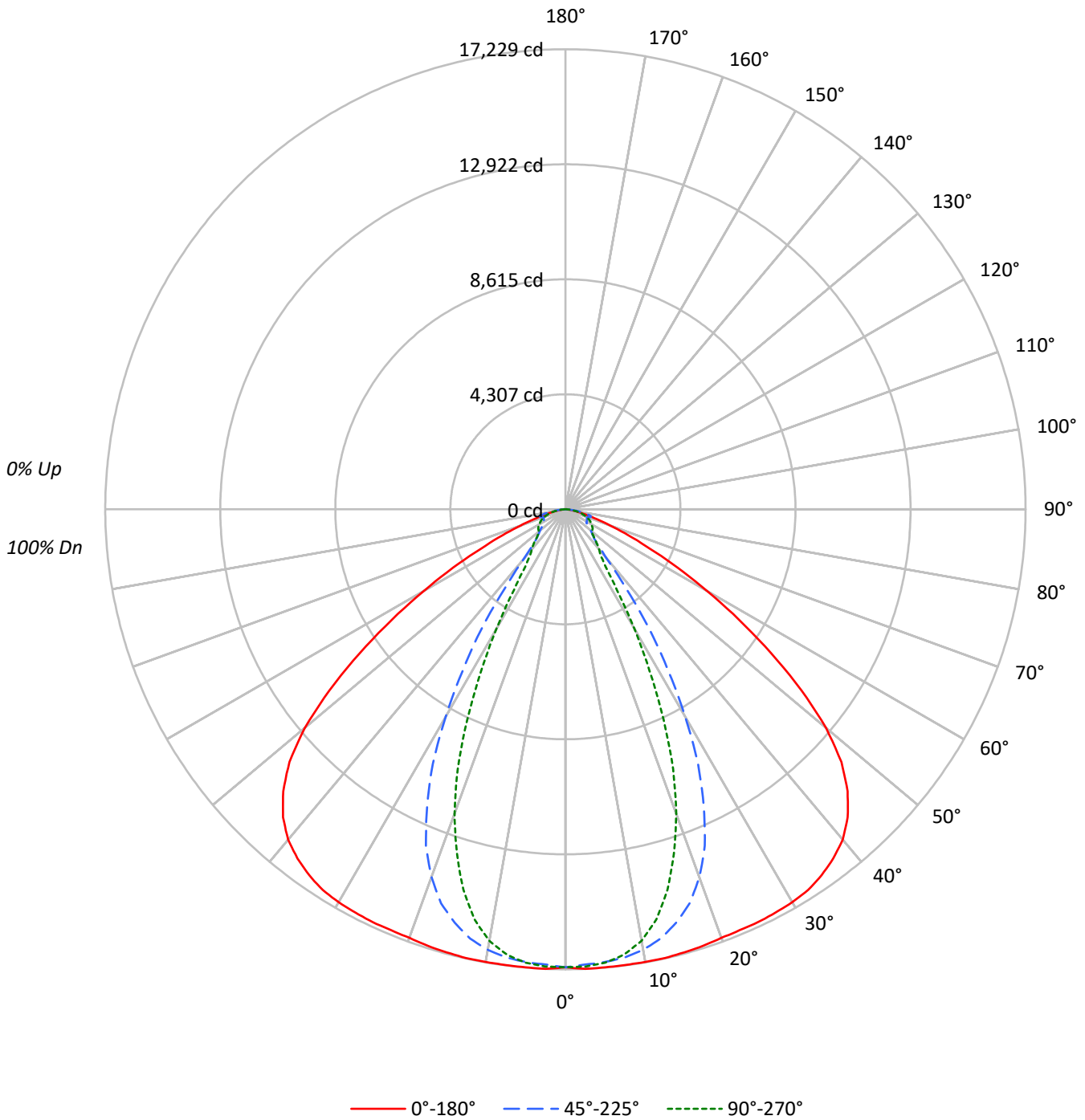
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24216.3 lumens
Efficiency: N/A
Efficacy: 157.2 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): 154
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°	27694	27694	27694
5°	27910	27588	27631
10°	28221	27471	26902
15°	28713	26791	24665
20°	29346	25194	20851
25°	30400	21836	15494
30°	31672	16724	9612
35°	32974	10812	5156
40°	34042	5034	4129
45°	34116	3415	3516
50°	31985	3129	3236
55°	26443	2819	3510
60°	19793	2973	3604
65°	13343	3399	3860
70°	8470	4144	3971
75°	5110	6174	3963
80°	3118	5510	3692
85°	2016	3568	2534



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1623.8	6.7
10°-20°	4483.1	18.5
20°-30°	5725.6	23.6
30°-40°	4643.8	19.2
40°-50°	3285.8	13.6
50°-60°	2140.0	8.8
60°-70°	1314.2	5.4
70°-80°	780.6	3.2
80°-90°	219.3	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°	11832.6	48.9
0°-40°	16476.4	68.0
0°-60°	21902.2	90.4
0°-90°	24216.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24216.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17153	17153	17153	17153	17153	
5°	17220	17184	17022	17091	17048	1643
15°	17178	16945	16028	15195	14756	4865
25°	17064	15656	12257	9529	8697	7890
35°	16729	11357	5485	2943	2616	10463
45°	14941	5718	1496	1590	1540	11396
55°	9394	1925	1002	1169	1247	8395
65°	3493	987	890	1068	1010	3629
75°	819	560	990	725	635	955
85°	109	218	193	172	137	152
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17152.6	17152.6	17152.6	17152.6	17152.6
2.5°	17229.1	17195.3	17064.4	17167.3	17137.9
5°	17220.3	17183.5	17021.8	17090.9	17048.2
7.5°	17214.4	17160.0	16930.6	16910.0	16821.8
10°	17212.9	17117.3	16755.6	16557.1	16408.5
12.5°	17215.9	17046.8	16468.8	16030.6	15729.1
15°	17177.6	16945.3	16027.7	15195.3	14755.6
17.5°	17142.3	16712.9	15471.8	14173.3	13513.0
20°	17079.1	16483.5	14663.0	12920.4	12135.1
22.5°	17061.5	16136.5	13640.9	11307.1	10529.2
25°	17064.4	15655.6	12257.1	9529.2	8696.9
27.5°	17032.0	15014.4	10749.8	7810.2	6824.9
30°	16987.9	14105.6	8970.4	5967.5	5155.8
32.5°	16910.0	12830.7	7148.4	4252.9	3579.3
35°	16729.1	11357.1	5485.2	2942.6	2616.1
37.5°	16477.6	9718.9	3698.5	2208.8	2155.8
40°	16151.2	8232.2	2388.2	1930.8	1958.8
42.5°	15645.3	6948.4	1744.1	1755.9	1758.8
45°	14940.9	5717.5	1495.6	1589.7	1539.7
47.5°	14014.5	4489.6	1358.8	1385.3	1377.9
50°	12733.6	3361.7	1245.6	1239.7	1288.2
52.5°	11149.8	2486.7	1129.4	1179.4	1270.6
55°	9393.9	1925.0	1001.5	1169.1	1247.0
57.5°	7710.2	1560.3	927.9	1139.7	1185.3
60°	6129.3	1300.0	920.6	1085.3	1116.2
62.5°	4735.2	1114.7	916.2	1058.8	1070.6
65°	3492.6	986.7	889.7	1067.6	1010.3
67.5°	2544.1	945.6	869.1	1052.9	930.9
70°	1794.1	830.9	877.9	972.0	841.2
72.5°	1217.6	694.1	976.5	857.3	736.8
75°	819.1	560.3	989.7	725.0	635.3
77.5°	532.3	466.2	841.2	592.6	526.5
80°	335.3	388.2	592.6	455.9	397.1
82.5°	217.6	298.5	375.0	322.1	273.5
85°	108.8	217.6	192.6	172.1	136.8
87.5°	64.7	132.4	102.9	75.0	69.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)