

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: P685368

Luminaire Tested: **8CZL-32-UNV-N-L835-CD-U**

Issue Date: 05/10/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P685368  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 05/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8CZL-32-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

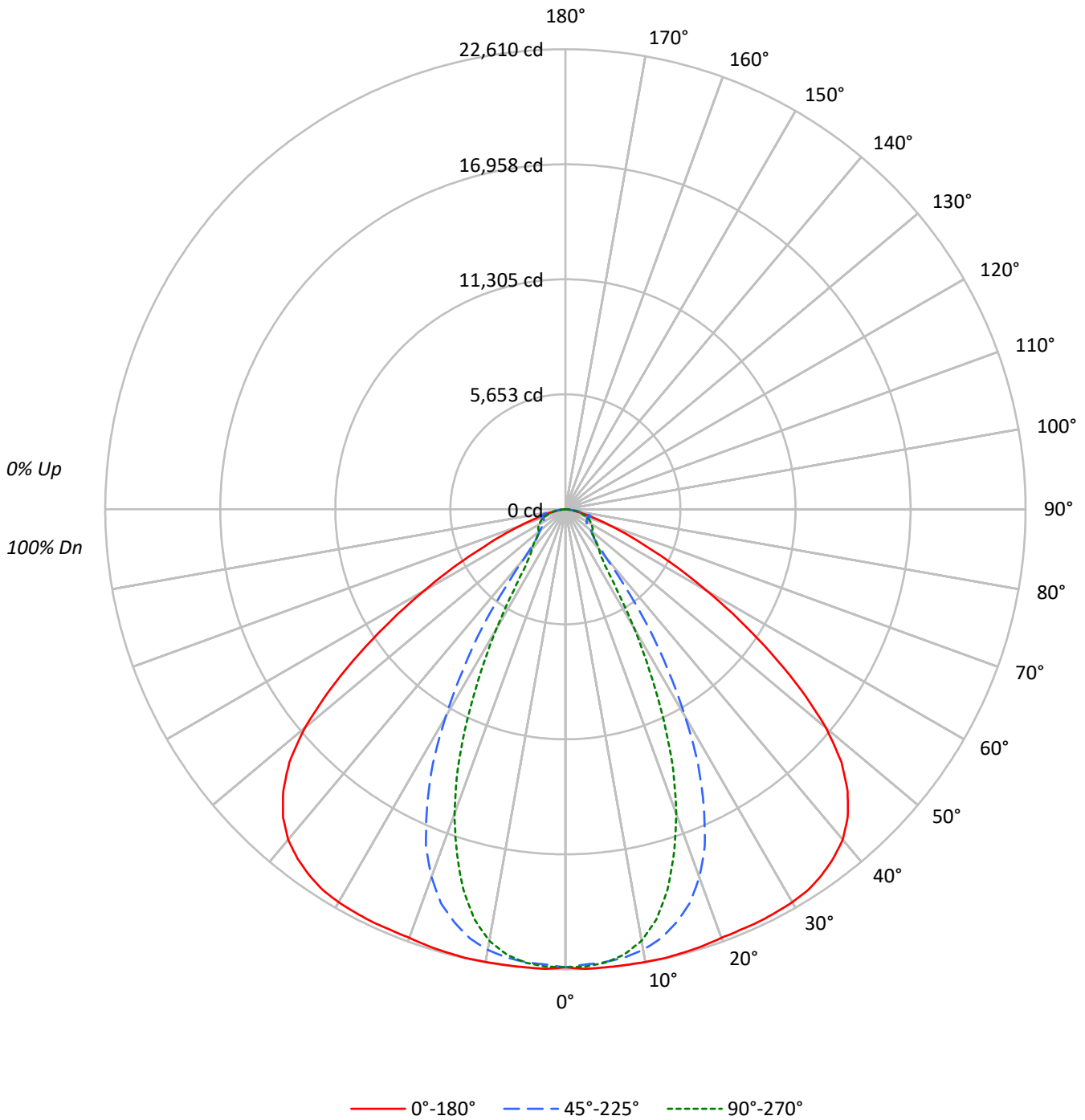
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31779.4 lumens  
Efficiency: N/A  
Efficacy: 154.3 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): 206  
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	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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	91	91	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80	80	80	80	79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	72	72	72	70
4	90	80	73	68	88	79	72	67	77	71	66	74	70	66	72	68	65	65	65	65	63
5	84	74	66	61	82	73	66	60	71	64	60	69	63	59	67	62	59	59	59	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	53	53	53	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	49	49	49	47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	45	45	45	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	42	42	42	40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	39	39	39	37

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

	0°	45°	90°
0°	36344	36344	36344
5°	36627	36205	36261
10°	37034	36051	35304
15°	37681	35158	32368
20°	38511	33063	27363
25°	39895	28656	20333
30°	41564	21948	12614
35°	43272	14188	6767
40°	44674	6606	5418
45°	44771	4482	4614
50°	41974	4106	4246
55°	34703	3699	4607
60°	25974	3901	4730
65°	17511	4461	5065
70°	11115	5439	5211
75°	6706	8102	5201
80°	4091	7231	4845
85°	2645	4683	3325



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2131.0	6.7
10°-20°	5883.3	18.5
20°-30°	7513.9	23.6
30°-40°	6094.2	19.2
40°-50°	4312.0	13.6
50°-60°	2808.3	8.8
60°-70°	1724.6	5.4
70°-80°	1024.4	3.2
80°-90°	287.8	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°	15528.1	48.9
0°-40°	21622.3	68.0
0°-60°	28742.6	90.4
0°-90°	31779.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31779.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	22510	22510	22510	22510	22510	
5°	22598	22550	22338	22429	22373	2157
15°	22542	22238	21033	19941	19364	6385
25°	22394	20545	16085	12505	11413	10354
35°	21954	14904	7198	3862	3433	13730
45°	19607	7503	1963	2086	2020	14955
55°	12328	2526	1314	1534	1636	11017
65°	4583	1295	1168	1401	1326	4762
75°	1075	735	1299	951	834	1254
85°	143	286	253	226	180	199
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	22509.7	22509.7	22509.7	22509.7	22509.7
2.5°	22610.1	22565.7	22393.9	22529.0	22490.4
5°	22598.5	22550.2	22338.0	22428.7	22372.7
7.5°	22590.8	22519.4	22218.3	22191.3	22075.5
10°	22588.8	22463.4	21988.7	21728.1	21533.2
12.5°	22592.7	22370.8	21612.3	21037.2	20641.6
15°	22542.5	22237.6	21033.4	19941.1	19364.1
17.5°	22496.2	21932.7	20303.9	18599.8	17733.3
20°	22413.2	21631.6	19242.5	16955.6	15925.1
22.5°	22390.1	21176.2	17901.2	14838.6	13817.7
25°	22393.9	20545.1	16085.3	12505.4	11413.1
27.5°	22351.5	19703.7	14107.2	10249.4	8956.4
30°	22293.6	18511.1	11772.1	7831.3	6766.0
32.5°	22191.3	16837.9	9381.0	5581.1	4697.2
35°	21953.9	14904.2	7198.3	3861.6	3433.2
37.5°	21623.9	12754.3	4853.6	2898.6	2829.2
40°	21195.5	10803.3	3134.1	2533.9	2570.6
42.5°	20531.6	9118.5	2288.8	2304.2	2308.1
45°	19607.2	7503.2	1962.7	2086.2	2020.5
47.5°	18391.4	5891.8	1783.2	1817.9	1808.3
50°	16710.5	4411.6	1634.6	1626.9	1690.5
52.5°	14632.1	3263.4	1482.1	1547.7	1667.4
55°	12327.9	2526.2	1314.2	1534.2	1636.5
57.5°	10118.2	2047.6	1217.7	1495.6	1555.5
60°	8043.6	1706.0	1208.1	1424.2	1464.8
62.5°	6214.1	1462.8	1202.3	1389.5	1404.9
65°	4583.4	1294.9	1167.6	1401.1	1325.8
67.5°	3338.6	1240.9	1140.5	1381.8	1221.6
70°	2354.4	1090.4	1152.1	1275.6	1103.9
72.5°	1597.9	910.9	1281.4	1125.1	966.9
75°	1074.9	735.3	1298.8	951.4	833.7
77.5°	698.6	611.8	1103.9	777.7	690.9
80°	440.0	509.5	777.7	598.3	521.1
82.5°	285.6	391.8	492.1	422.6	359.0
85°	142.8	285.6	252.8	225.8	179.5
87.5°	84.9	173.7	135.1	98.4	90.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)