

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: P685407

Luminaire Tested: **8CZL-24-UNV-N-L940-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685407
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-L940-CD-U
Description: METALUX CRUZE LINEAR 8FT NARROW LENS MODEL @90 CRI and 4000K
Light Source: (1176) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

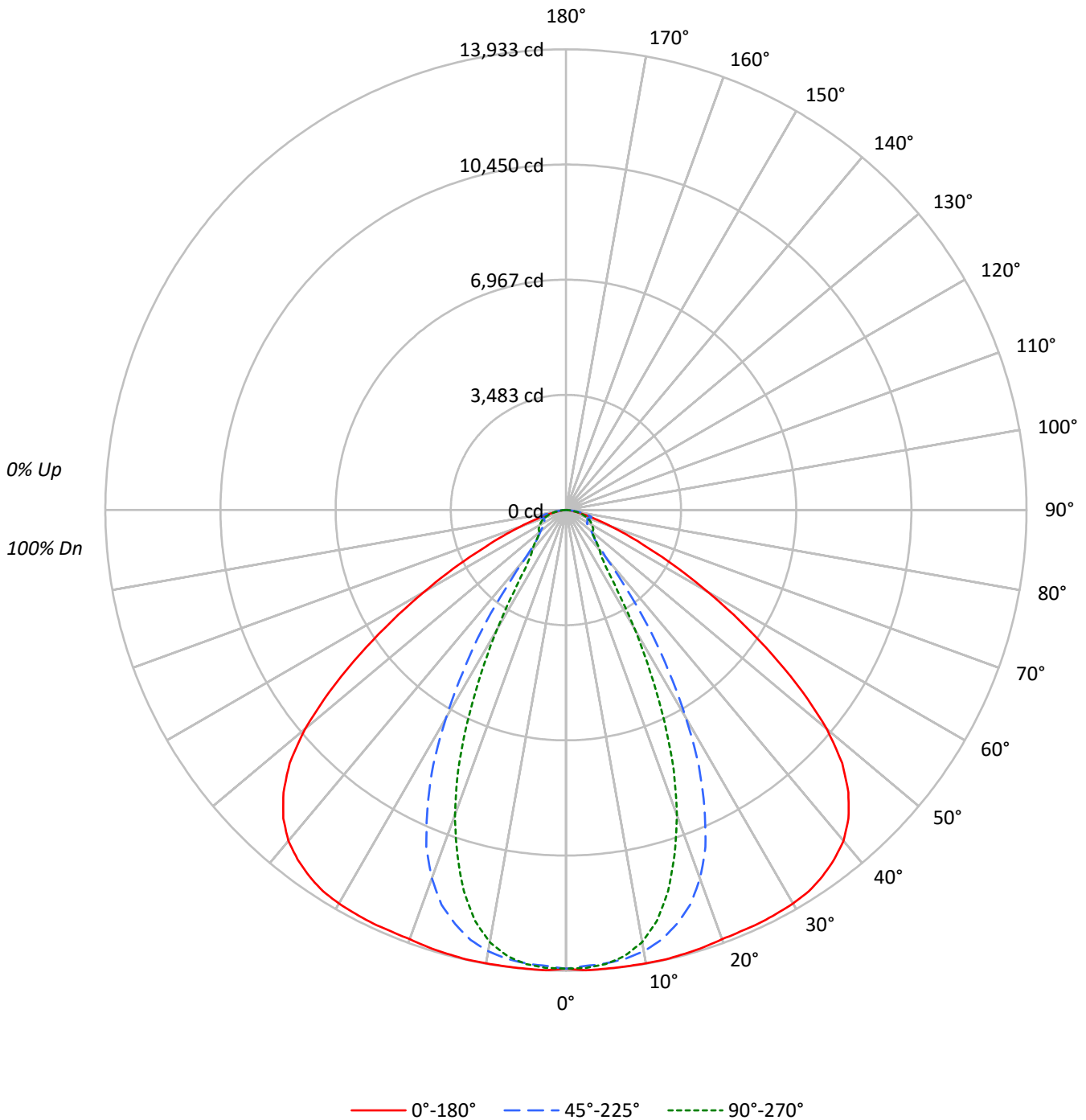
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19583.8 lumens
Efficiency: N/A
Efficacy: 127.2 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°	22397	22397	22397
5°	22571	22311	22345
10°	22822	22216	21756
15°	23221	21666	19946
20°	23732	20375	16862
25°	24585	17659	12530
30°	25613	13525	7774
35°	26666	8743	4170
40°	27530	4071	3339
45°	27590	2762	2843
50°	25866	2530	2617
55°	21385	2280	2839
60°	16006	2404	2915
65°	10791	2749	3121
70°	6849	3352	3212
75°	4132	4993	3205
80°	2521	4457	2986
85°	1630	2886	2049



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1313.2	6.7
10°-20°	3625.5	18.5
20°-30°	4630.3	23.6
30°-40°	3755.5	19.2
40°-50°	2657.2	13.6
50°-60°	1730.6	8.8
60°-70°	1062.8	5.4
70°-80°	631.3	3.2
80°-90°	177.4	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°	9569.0	48.9
0°-40°	13324.5	68.0
0°-60°	17712.4	90.4
0°-90°	19583.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19583.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13871	13871	13871	13871	13871	
5°	13926	13896	13766	13821	13787	1329
15°	13892	13704	12962	12288	11933	3935
25°	13800	12661	9912	7706	7033	6381
35°	13529	9185	4436	2380	2116	8461
45°	12083	4624	1210	1286	1245	9216
55°	7597	1557	810	946	1008	6789
65°	2824	798	720	863	817	2934
75°	662	453	800	586	514	773
85°	88	176	156	139	111	123
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13871.4	13871.4	13871.4	13871.4	13871.4
2.5°	13933.2	13905.9	13800.0	13883.3	13859.5
5°	13926.1	13896.4	13765.5	13821.4	13787.0
7.5°	13921.3	13877.3	13691.8	13675.2	13603.8
10°	13920.2	13842.9	13550.3	13389.7	13269.6
12.5°	13922.5	13785.8	13318.4	12964.0	12720.2
15°	13891.6	13703.7	12961.6	12288.5	11932.9
17.5°	13863.1	13515.8	12512.1	11462.0	10928.0
20°	13811.9	13330.3	11858.0	10448.7	9813.7
22.5°	13797.7	13049.6	11031.5	9144.1	8515.0
25°	13800.0	12660.7	9912.4	7706.3	7033.2
27.5°	13773.9	12142.2	8693.4	6316.1	5519.3
30°	13738.2	11407.3	7254.4	4826.0	4169.5
32.5°	13675.2	10376.2	5780.9	3439.3	2894.6
35°	13528.9	9184.6	4435.9	2379.7	2115.7
37.5°	13325.5	7859.7	2991.0	1786.3	1743.4
40°	13061.5	6657.4	1931.3	1561.5	1584.1
42.5°	12652.4	5619.2	1410.4	1420.0	1422.3
45°	12082.8	4623.8	1209.5	1285.6	1245.1
47.5°	11333.5	3630.8	1098.9	1120.3	1114.3
50°	10297.7	2718.6	1007.3	1002.5	1041.8
52.5°	9016.9	2011.0	913.3	953.8	1027.5
55°	7596.9	1556.7	809.9	945.5	1008.5
57.5°	6235.2	1261.8	750.4	921.7	958.5
60°	4956.8	1051.3	744.5	877.7	902.6
62.5°	3829.4	901.5	740.9	856.3	865.8
65°	2824.5	798.0	719.5	863.4	817.0
67.5°	2057.4	764.7	702.8	851.5	752.8
70°	1450.9	671.9	710.0	786.1	680.3
72.5°	984.7	561.3	789.7	693.3	595.8
75°	662.4	453.1	800.4	586.3	513.8
77.5°	430.5	377.0	680.3	479.3	425.8
80°	271.1	314.0	479.3	368.7	321.1
82.5°	176.0	241.4	303.3	260.4	221.2
85°	88.0	176.0	155.8	139.1	110.6
87.5°	52.3	107.0	83.2	60.7	55.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)