

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: P685746

Luminaire Tested: **8CZL-18-UNV-N-LVR-L850-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685746
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-18-UNV-N-LVR-L850-CD-U
Description: METALUX CRUZE LINEAR 8FT LOUVER MODEL WITH NARROW LENS @80 CRI and 5000K
Light Source: (1176) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

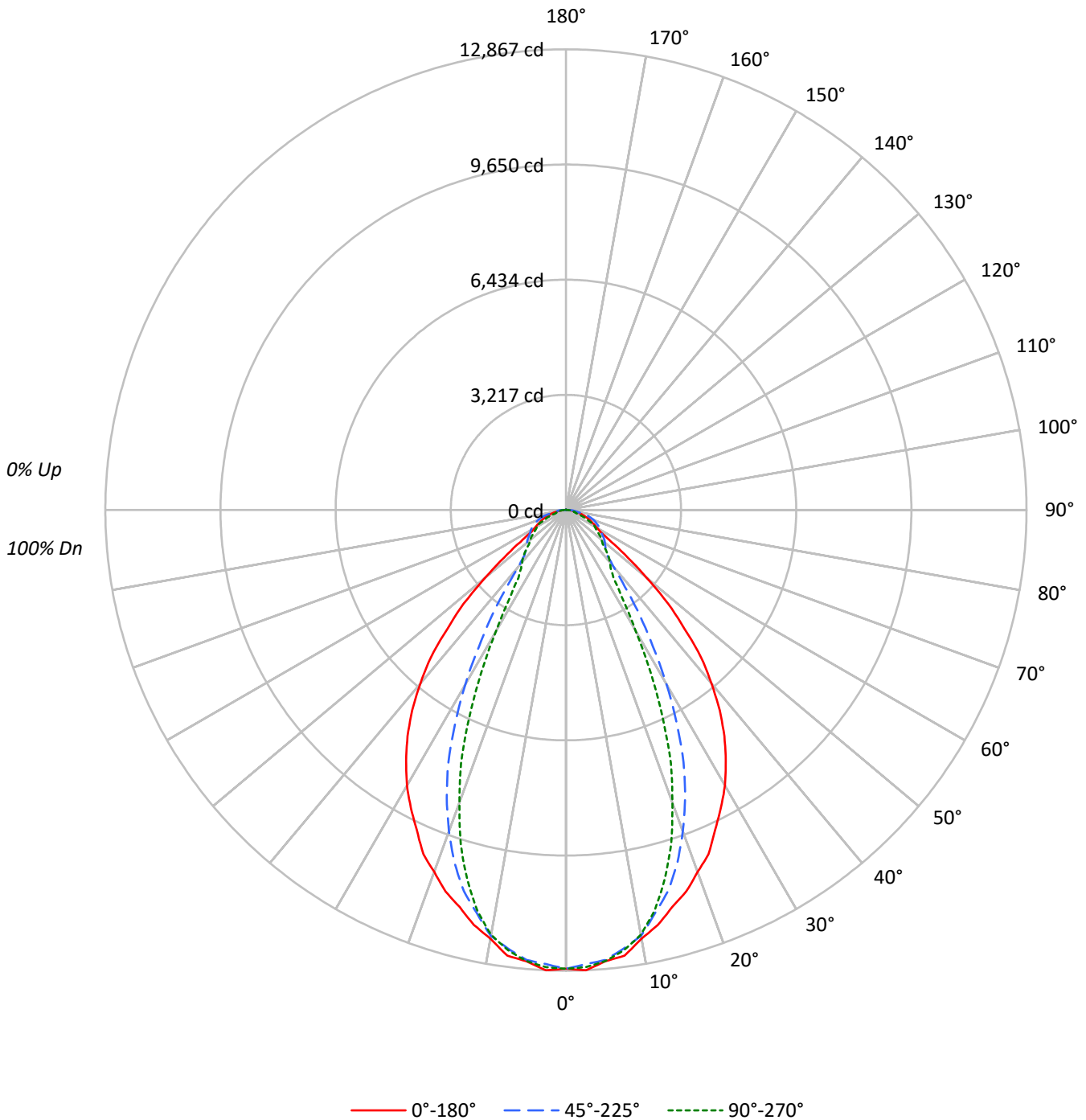
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15168.4 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 0.8 / 0.85
Luminous Opening: Rectangular (W 0.83' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 109
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	100	100	100	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88	88	88	88
2	103	97	92	87	101	95	90	86	92	88	84	88	85	82	86	83	80	78	78	78	78
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70	70	70	70
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63	63	63	63
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58	58	58	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53	53	53	53
7	75	64	57	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49	49	49	49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45	45	45	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	43	42	42	42	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39	39	39	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20685	20685	20685
5°	20502	20444	20497
10°	19924	19801	19753
15°	19185	18419	17835
20°	18478	16408	14937
25°	17560	13855	11390
30°	16564	10480	7277
35°	15203	7105	4572
40°	13333	4328	4011
45°	10682	3606	3594
50°	7386	3564	3245
55°	4351	3532	3055
60°	3242	3670	3018
65°	3069	3695	2654
70°	2951	3940	2003
75°	2783	3954	1713
80°	2584	3280	1938
85°	2292	3981	2393



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1190.1	7.8
10°-20°	3081.5	20.3
20°-30°	3599.8	23.7
30°-40°	2670.7	17.6
40°-50°	1770.5	11.7
50°-60°	1174.2	7.7
60°-70°	876.1	5.8
70°-80°	517.1	3.4
80°-90°	217.8	1.4
90°-100°	47.0	0.3
100°-110°	6.4	0.0
110°-120°	3.3	0.0
120°-130°	3.0	0.0
130°-140°	2.8	0.0
140°-150°	2.9	0.0
150°-160°	2.6	0.0
160°-170°	1.9	0.0
170°-180°	0.7	0.0
0°-30°	7871.4	51.9
0°-40°	10542.1	69.5
0°-60°	13486.8	88.9
0°-90°	15097.7	99.5
90°-120°	56.7	0.4
90°-150°	65.4	0.4
90°-180°	71.0	0.5
0°-180°	15168.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12811	12811	12811	12811	12811	
5°	12650	12639	12614	12659	12646	1197
15°	11477	11341	11019	10829	10670	3238
25°	9857	9148	7777	6671	6393	4540
35°	7713	5715	3605	2437	2320	4788
45°	4678	2760	1579	1639	1574	3601
55°	1546	1358	1255	1211	1085	1521
65°	803	898	967	945	695	801
75°	446	499	634	460	275	471
85°	124	151	215	286	129	134
90°	2	46	108	184	38	8
95°	1	8	42	92	20	1
105°	1	2	4	8	6	1
115°	1	2	3	4	4	1
125°	2	2	3	4	4	2
135°	2	3	3	4	4	2
145°	3	4	4	5	5	2
155°	4	5	5	6	6	2
165°	5	6	6	8	8	1
175°	5	6	8	9	10	1
180°	8	8	8	8	8	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12811.3	12811.3	12811.3	12811.3	12811.3
2.5°	12866.7	12797.2	12697.4	12787.5	12779.9
5°	12649.6	12638.8	12613.8	12659.4	12646.4
7.5°	12551.9	12493.3	12354.4	12461.8	12401.0
10°	12152.5	12084.1	12077.6	12055.9	12048.3
12.5°	11869.2	11786.7	11522.9	11508.8	11450.2
15°	11477.3	11340.6	11019.3	10829.3	10669.8
17.5°	11173.4	10876.0	10339.8	9986.0	9780.8
20°	10754.4	10426.6	9549.6	8932.0	8693.2
22.5°	10409.3	9828.6	8700.8	7827.0	7663.1
25°	9856.8	9148.0	7777.1	6671.1	6393.2
27.5°	9377.0	8399.1	6687.3	5473.8	5133.0
30°	8884.3	7560.0	5621.4	4299.4	3903.2
32.5°	8310.1	6714.5	4524.1	3225.9	2939.3
35°	7713.1	5714.8	3604.7	2436.8	2319.6
37.5°	7055.3	4816.1	2709.2	2035.2	2054.7
40°	6325.9	4032.4	2053.6	1865.9	1902.8
42.5°	5598.7	3372.4	1708.5	1755.1	1766.0
45°	4678.2	2760.3	1579.3	1639.0	1573.9
47.5°	3873.9	2255.5	1488.1	1481.6	1389.4
50°	2940.4	1838.7	1418.7	1340.5	1291.7
52.5°	2177.4	1551.1	1352.4	1266.7	1216.8
55°	1545.7	1357.9	1254.8	1211.3	1085.4
57.5°	1161.4	1221.1	1179.9	1082.2	994.3
60°	1004.0	1100.6	1136.4	1020.3	934.6
62.5°	906.3	997.5	1065.9	983.4	855.3
65°	803.2	897.7	967.1	945.4	694.7
67.5°	713.1	818.4	904.2	810.8	567.7
70°	625.2	722.9	834.7	688.2	424.4
72.5°	530.8	604.6	739.2	535.1	309.3
75°	446.1	499.3	633.9	460.2	274.6
77.5°	357.1	401.6	434.2	419.0	242.1
80°	277.9	322.4	352.8	381.0	208.4
82.5°	201.9	231.2	280.0	337.6	173.7
85°	123.7	150.9	214.9	285.5	129.2
87.5°	53.2	92.3	157.4	236.6	84.7
90°	2.2	45.6	107.5	184.5	38.0
92.5°	1.1	19.5	69.5	135.7	25.0
95°	1.1	7.6	42.3	92.3	19.5
97.5°	1.1	3.3	21.7	59.7	14.1
100°	1.1	2.2	11.9	34.7	9.8
102.5°	1.1	2.2	5.4	17.4	7.6
105°	1.1	2.2	4.3	7.6	6.5
107.5°	1.1	2.2	3.3	5.4	5.4
110°	1.1	2.2	3.3	5.4	5.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	2.2	3.3	5.4	5.4
115°	1.1	2.2	3.3	4.3	4.3
117.5°	1.1	2.2	3.3	4.3	4.3
120°	1.1	2.2	3.3	4.3	4.3
122.5°	1.1	2.2	3.3	4.3	4.3
125°	2.2	2.2	3.3	4.3	4.3
127.5°	2.2	3.3	3.3	4.3	4.3
130°	2.2	3.3	3.3	4.3	4.3
132.5°	2.2	3.3	3.3	4.3	4.3
135°	2.2	3.3	3.3	4.3	4.3
137.5°	2.2	3.3	4.3	4.3	4.3
140°	3.3	4.3	4.3	4.3	4.3
142.5°	3.3	4.3	4.3	5.4	4.3
145°	3.3	4.3	4.3	5.4	5.4
147.5°	3.3	4.3	5.4	5.4	5.4
150°	3.3	4.3	5.4	6.5	6.5
152.5°	4.3	4.3	5.4	6.5	6.5
155°	4.3	5.4	5.4	6.5	6.5
157.5°	4.3	5.4	5.4	6.5	7.6
160°	4.3	5.4	6.5	7.6	7.6
162.5°	4.3	5.4	6.5	7.6	7.6
165°	5.4	6.5	6.5	7.6	7.6
167.5°	5.4	6.5	7.6	7.6	8.7
170°	5.4	6.5	7.6	8.7	8.7
172.5°	5.4	6.5	7.6	8.7	8.7
175°	5.4	6.5	7.6	8.7	9.8
177.5°	5.4	6.5	7.6	8.7	9.8
180°	7.6	7.6	7.6	7.6	7.6

(END OF REPORT)