

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: P685896

Luminaire Tested: **8CZL-18-UNV-W-LVR-L950-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685896
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-18-UNV-W-LVR-L950-CD-U
Description: METALUX CRUZE LINEAR 8FT LOUVER MODEL WITH WIDE LENS @90 CRI and 5000K
Light Source: (1176) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

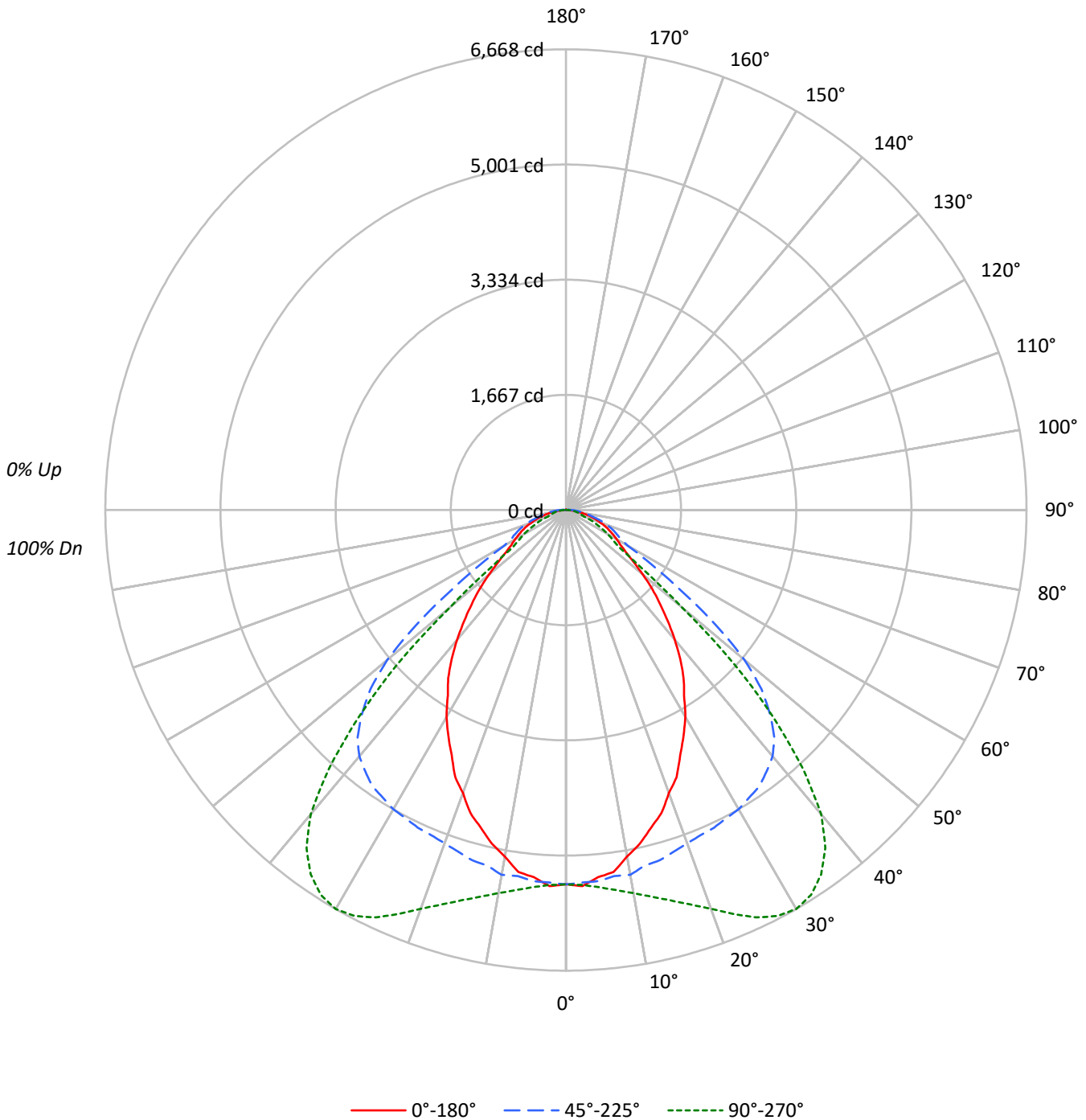
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12888.4 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.64 / 1.46
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 (A_{in}): 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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87
2	102	95	89	84	99	93	88	83	89	85	81	86	82	79	83	80	77	75
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	59	57
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8747	8747	8747
5°	8647	8736	8880
10°	8348	8790	9233
15°	7956	8773	9776
20°	7488	8820	10552
25°	6972	9037	11589
30°	6446	9323	12431
35°	5856	9625	12692
40°	5163	9807	12109
45°	4401	9539	9708
50°	3647	8482	5509
55°	2971	5731	2635
60°	2743	3332	2276
65°	2645	3066	1850
70°	2495	3008	1322
75°	2323	2745	1285
80°	2117	2697	1411
85°	1625	3231	1556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	515.1	4.0
10°-20°	1495.2	11.6
20°-30°	2372.8	18.4
30°-40°	2963.6	23.0
40°-50°	2722.0	21.1
50°-60°	1452.7	11.3
60°-70°	747.6	5.8
70°-80°	411.1	3.2
80°-90°	169.6	1.3
90°-100°	32.7	0.3
100°-110°	1.8	0.0
110°-120°	0.4	0.0
120°-130°	0.6	0.0
130°-140°	1.0	0.0
140°-150°	0.8	0.0
150°-160°	0.7	0.0
160°-170°	0.5	0.0
170°-180°	0.2	0.0
0°-30°	4383.1	34.0
0°-40°	7346.7	57.0
0°-60°	11521.3	89.4
0°-90°	12849.7	99.7
90°-120°	35.0	0.3
90°-150°	37.4	0.3
90°-180°	39.0	0.3
0°-180°	12888.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5417	5417	5417	5417	5417	
5°	5335	5348	5390	5473	5479	504
15°	4759	4915	5248	5676	5848	1338
25°	3914	4281	5073	6002	6505	1803
35°	2971	3520	4883	5948	6439	1844
45°	1927	2779	4177	4329	4252	1492
55°	1055	1892	2036	1140	936	974
65°	692	907	802	654	484	684
75°	372	413	440	391	206	395
85°	88	115	174	230	84	100
90°	0	32	86	139	18	3
95°	0	4	32	64	8	0
105°	0	1	1	1	0	0
115°	0	1	1	0	0	0
125°	0	1	1	0	0	0
135°	1	2	2	1	1	1
145°	1	2	2	1	1	1
155°	2	2	2	1	1	1
165°	2	3	2	1	1	1
175°	3	3	2	1	1	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5417.2	5417.2	5417.2	5417.2	5417.2
2.5°	5448.8	5437.1	5398.2	5433.5	5430.7
5°	5335.0	5348.5	5390.1	5473.2	5478.6
7.5°	5284.4	5321.4	5344.9	5524.7	5548.2
10°	5091.9	5149.7	5361.2	5548.2	5631.3
12.5°	4947.3	5063.9	5269.0	5586.2	5730.7
15°	4759.4	4914.8	5248.2	5675.6	5848.2
17.5°	4599.4	4758.5	5185.0	5743.4	5984.7
20°	4358.2	4646.4	5133.5	5813.9	6141.0
22.5°	4185.6	4477.4	5093.7	5876.2	6326.2
25°	3913.6	4281.3	5072.9	6001.8	6505.1
27.5°	3685.9	4116.0	5026.8	6082.3	6623.5
30°	3457.2	3913.6	5000.6	6096.7	6667.8
32.5°	3181.6	3749.1	4934.7	6063.3	6604.5
35°	2971.1	3519.6	4883.2	5948.5	6439.2
37.5°	2714.5	3338.9	4770.2	5740.7	6168.1
40°	2449.7	3171.7	4652.7	5416.3	5745.2
42.5°	2182.2	2983.7	4464.8	4983.5	5083.8
45°	1927.4	2778.6	4177.4	4329.2	4251.5
47.5°	1698.8	2558.1	3837.7	3508.7	3326.2
50°	1452.1	2334.0	3376.8	2671.1	2193.1
52.5°	1229.8	2147.0	2742.5	1809.0	1364.5
55°	1055.4	1892.2	2035.9	1140.4	936.1
57.5°	931.6	1697.0	1469.3	901.8	801.5
60°	849.4	1453.0	1031.9	827.7	704.8
62.5°	768.1	1149.4	882.8	754.5	592.8
65°	692.2	907.2	802.4	654.2	484.3
67.5°	613.6	736.4	724.7	593.7	403.9
70°	528.6	605.4	637.1	497.0	280.1
72.5°	452.7	507.8	542.2	424.7	237.7
75°	372.3	413.0	440.1	391.3	206.0
77.5°	295.5	332.5	358.7	354.2	180.7
80°	227.7	252.1	290.1	317.2	151.8
82.5°	155.4	173.5	228.6	273.8	118.4
85°	87.7	114.8	174.4	229.5	84.0
87.5°	25.3	67.8	126.5	184.3	48.8
90°	0.0	32.5	85.8	139.2	18.1
92.5°	0.0	12.7	56.0	97.6	12.7
95°	0.0	3.6	32.5	64.2	8.1
97.5°	0.0	0.9	15.4	38.0	3.6
100°	0.0	0.9	5.4	18.1	0.9
102.5°	0.0	0.9	1.8	6.3	0.0
105°	0.0	0.9	0.9	0.9	0.0
107.5°	0.0	0.9	0.9	0.0	0.0
110°	0.0	0.9	0.9	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.9	0.9	0.0	0.0
115°	0.0	0.9	0.9	0.0	0.0
117.5°	0.0	0.9	0.9	0.0	0.0
120°	0.0	0.9	0.9	0.0	0.0
122.5°	0.0	0.9	0.9	0.0	0.0
125°	0.0	0.9	0.9	0.0	0.0
127.5°	0.9	0.9	0.9	0.9	0.0
130°	0.9	1.8	1.8	0.9	0.0
132.5°	0.9	1.8	1.8	0.9	0.0
135°	0.9	1.8	1.8	0.9	0.9
137.5°	0.9	1.8	1.8	0.9	0.9
140°	0.9	1.8	1.8	0.9	0.9
142.5°	0.9	1.8	1.8	0.9	0.9
145°	0.9	1.8	1.8	0.9	0.9
147.5°	0.9	1.8	1.8	0.9	0.9
150°	0.9	1.8	1.8	0.9	0.9
152.5°	1.8	1.8	1.8	0.9	0.9
155°	1.8	1.8	1.8	0.9	0.9
157.5°	1.8	1.8	1.8	0.9	0.9
160°	1.8	1.8	1.8	0.9	0.9
162.5°	1.8	2.7	1.8	0.9	0.9
165°	1.8	2.7	1.8	0.9	0.9
167.5°	1.8	2.7	1.8	0.9	0.9
170°	1.8	2.7	1.8	0.9	0.9
172.5°	1.8	2.7	1.8	0.9	0.9
175°	2.7	2.7	1.8	0.9	0.9
177.5°	2.7	2.7	1.8	1.8	1.8
180°	1.8	1.8	1.8	1.8	1.8

(END OF REPORT)