

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: P685956

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

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685956
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-18-UNV-LVRF-L950-CD-U
Description: METALUX CRUZE LINEAR 8FT LOUVER MODEL WITH FROSTED LAY-IN @90 CRI and 5000K
Light Source: (1176) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

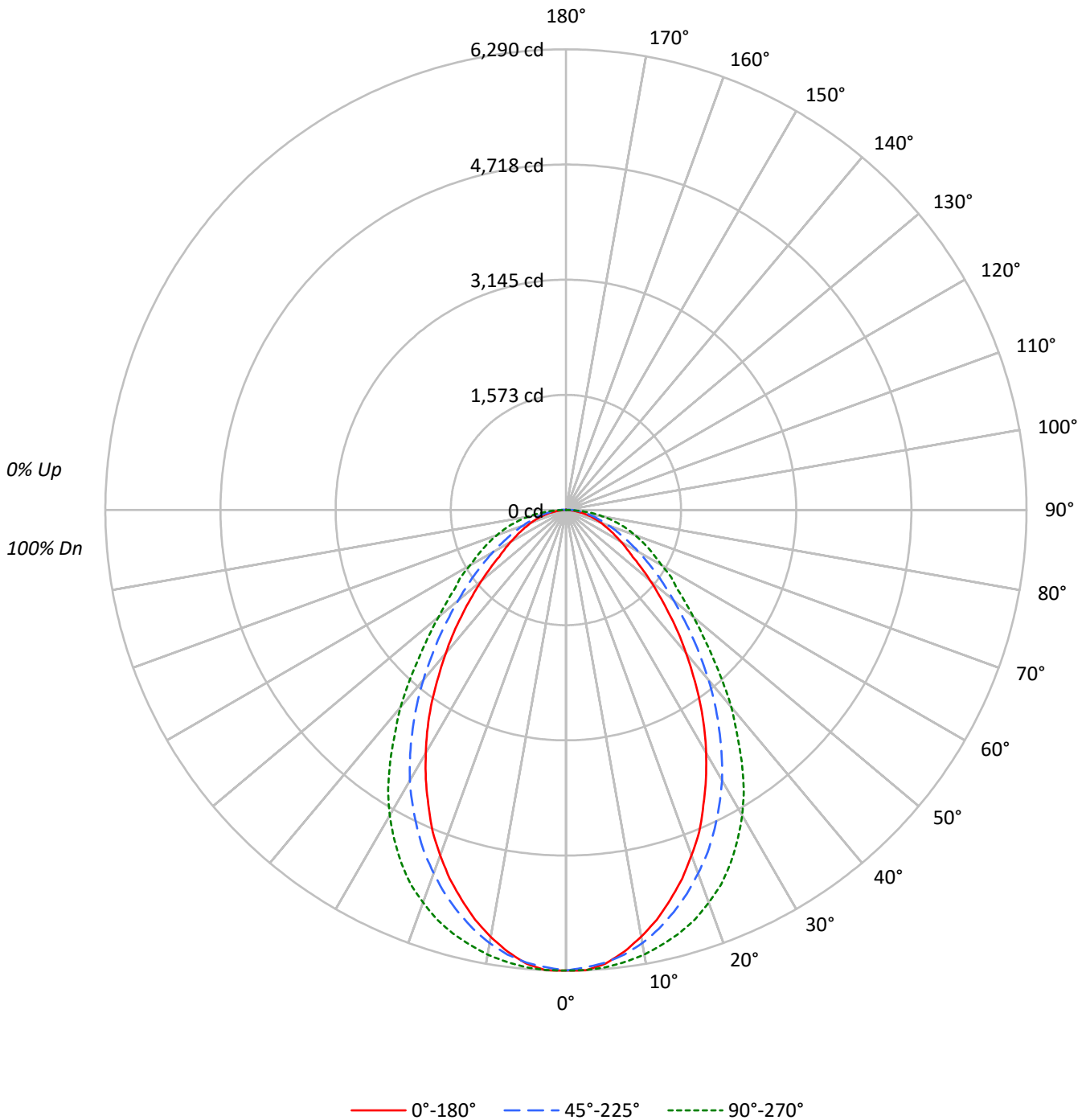
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11597.9 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Spacing Criteria (0/90/45): 0.97 / 1.15 / 1.12
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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	88	86	
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	82	79	76	76	74	
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	74	70	67	67	65	
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	59	57	
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	53	51	
6	75	63	55	49	73	62	54	48	60	53	48	58	52	48	57	51	47	47	45	
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	43	41	
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	39	37	
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	36	34	
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	33	31	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10151	10151	10151
5°	10077	10054	10155
10°	9700	9844	10105
15°	9204	9500	9999
20°	8620	9067	9800
25°	7915	8554	9475
30°	7134	7950	8972
35°	6284	7190	8241
40°	5378	6384	7410
45°	4531	5565	6454
50°	3784	4823	5706
55°	3131	4238	5174
60°	2822	3715	4879
65°	2565	3269	4771
70°	2389	2935	4735
75°	2215	2739	4831
80°	2008	2714	4840
85°	1725	3181	4787



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	588.3	5.1
10°-20°	1607.7	13.9
20°-30°	2221.4	19.2
30°-40°	2285.1	19.7
40°-50°	1873.4	16.2
50°-60°	1344.3	11.6
60°-70°	904.2	7.8
70°-80°	527.7	4.6
80°-90°	203.4	1.8
90°-100°	35.2	0.3
100°-110°	3.0	0.0
110°-120°	0.6	0.0
120°-130°	0.5	0.0
130°-140°	0.7	0.0
140°-150°	0.9	0.0
150°-160°	0.8	0.0
160°-170°	0.6	0.0
170°-180°	0.2	0.0
0°-30°	4417.3	38.1
0°-40°	6702.5	57.8
0°-60°	9920.1	85.5
0°-90°	11555.4	99.6
90°-120°	38.8	0.3
90°-150°	40.9	0.4
90°-180°	43.0	0.4
0°-180°	11597.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6287	6287	6287	6287	6287	
5°	6218	6222	6203	6261	6266	583
15°	5506	5562	5684	5904	5982	1545
25°	4443	4547	4802	5136	5318	2039
35°	3188	3335	3648	3989	4181	1986
45°	1984	2139	2437	2676	2826	1540
55°	1112	1245	1505	1711	1838	1024
65°	671	711	856	1099	1249	669
75°	355	368	439	610	774	377
85°	93	116	172	257	258	101
90°	1	39	88	134	28	6
95°	1	6	37	64	12	0
105°	0	1	2	4	2	0
115°	1	1	1	0	0	1
125°	1	1	1	0	0	1
135°	1	2	1	1	0	1
145°	2	2	2	1	1	1
155°	2	3	2	1	1	1
165°	3	3	3	2	1	1
175°	3	4	3	2	2	0
180°	3	3	3	3	3	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6287.2	6287.2	6287.2	6287.2	6287.2
2.5°	6289.9	6284.5	6249.2	6289.9	6288.1
5°	6217.6	6222.1	6203.1	6261.0	6265.5
7.5°	6083.0	6101.0	6121.8	6206.8	6222.1
10°	5916.7	5943.8	6004.3	6130.8	6163.4
12.5°	5729.7	5759.5	5858.0	6032.4	6077.5
15°	5506.5	5562.5	5683.6	5904.0	5981.8
17.5°	5276.1	5344.7	5494.7	5755.9	5860.7
20°	5016.7	5085.4	5277.0	5567.9	5703.5
22.5°	4756.5	4823.4	5057.4	5367.3	5536.3
25°	4442.9	4546.9	4801.7	5136.0	5318.5
27.5°	4143.0	4253.2	4536.9	4895.6	5077.3
30°	3826.7	3955.9	4264.0	4606.5	4812.5
32.5°	3513.2	3644.2	3958.6	4315.5	4519.8
35°	3187.9	3335.1	3647.8	3989.3	4180.9
37.5°	2858.1	3018.9	3340.6	3676.7	3831.2
40°	2551.7	2709.9	3028.8	3329.7	3515.9
42.5°	2268.9	2424.3	2719.8	2992.7	3159.8
45°	1984.3	2138.8	2437.0	2676.4	2826.4
47.5°	1729.5	1887.6	2165.0	2407.2	2532.8
50°	1506.3	1650.0	1920.1	2139.7	2271.6
52.5°	1302.1	1433.1	1700.6	1913.8	2041.2
55°	1112.3	1245.1	1505.4	1711.4	1837.9
57.5°	984.9	1079.8	1313.8	1542.4	1705.1
60°	873.8	932.5	1150.3	1421.3	1510.8
62.5°	760.8	814.1	993.0	1231.6	1370.7
65°	671.4	711.1	855.7	1098.8	1248.8
67.5°	582.8	612.6	736.4	970.5	1122.3
70°	506.0	525.0	621.7	844.0	1003.0
72.5°	432.8	442.8	529.5	728.3	886.4
75°	355.1	367.8	439.1	609.9	774.4
77.5°	281.0	299.1	362.3	508.7	646.1
80°	216.0	230.4	291.9	418.4	520.5
82.5°	150.0	169.9	227.7	330.7	398.5
85°	93.1	115.7	171.7	256.6	258.4
87.5°	38.9	72.3	125.6	189.8	131.9
90°	0.9	38.9	87.6	133.7	28.0
92.5°	0.0	18.1	59.6	95.8	16.3
95°	0.9	6.3	37.0	64.2	11.7
97.5°	0.0	1.8	19.9	40.7	7.2
100°	0.0	0.9	8.1	22.6	4.5
102.5°	0.0	0.9	3.6	9.9	2.7
105°	0.0	0.9	1.8	3.6	1.8
107.5°	0.0	0.9	0.9	0.9	0.9
110°	0.9	0.9	0.9	0.9	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°	0.9	0.9	0.9	0.0	0.0
117.5°	0.9	0.9	0.9	0.0	0.0
120°	0.9	0.9	0.9	0.0	0.0
122.5°	0.9	0.9	0.9	0.0	0.0
125°	0.9	0.9	0.9	0.0	0.0
127.5°	0.9	0.9	0.9	0.0	0.0
130°	0.9	0.9	0.9	0.0	0.0
132.5°	0.9	1.8	0.9	0.9	0.0
135°	0.9	1.8	0.9	0.9	0.0
137.5°	0.9	1.8	0.9	0.9	0.0
140°	0.9	1.8	0.9	0.9	0.9
142.5°	1.8	1.8	1.8	0.9	0.9
145°	1.8	1.8	1.8	0.9	0.9
147.5°	1.8	1.8	1.8	0.9	0.9
150°	1.8	1.8	1.8	0.9	0.9
152.5°	1.8	2.7	1.8	0.9	0.9
155°	1.8	2.7	1.8	0.9	0.9
157.5°	1.8	2.7	1.8	0.9	0.9
160°	1.8	2.7	1.8	0.9	0.9
162.5°	2.7	2.7	1.8	1.8	0.9
165°	2.7	2.7	2.7	1.8	0.9
167.5°	2.7	2.7	2.7	1.8	0.9
170°	2.7	2.7	2.7	1.8	1.8
172.5°	2.7	2.7	2.7	1.8	1.8
175°	2.7	3.6	2.7	1.8	1.8
177.5°	2.7	3.6	2.7	1.8	1.8
180°	2.7	2.7	2.7	2.7	2.7

(END OF REPORT)