

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: P685878

Luminaire Tested: **8CZL-32-UNV-W-LVR-L935-CD-U**

Issue Date: 05/10/2023

Test Information

Test Method: LM-79-08
Report Number: P685878
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-32-UNV-W-LVR-L935-CD-U
Description: METALUX CRUZE LINEAR 8FT LOUVER MODEL WITH WIDE LENS @90 CRI and 3500K
Light Source: (1176) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

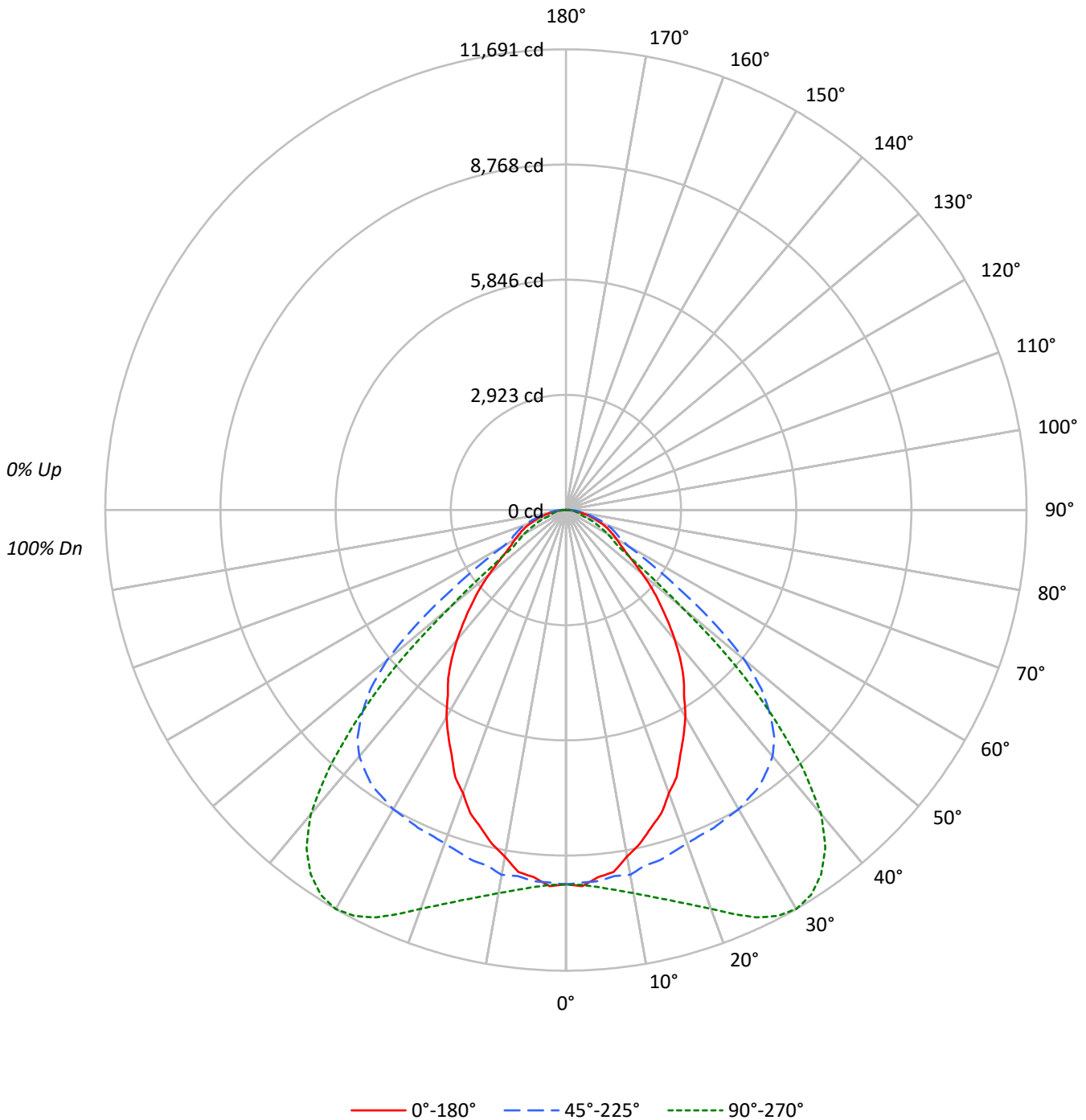
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22597.3 lumens
Efficiency: N/A
Efficacy: 109.7 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): 206
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	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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87	87	87	87
2	102	95	89	84	99	93	88	83	89	85	81	86	82	79	83	80	77	75	75	75	75
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66	66	66	66
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	59	57	57	57	57
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	51	51	51	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45	45	45	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40	40	40	40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36	36	36	36
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	34	33	33	33	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30	30	30	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15335	15335	15335
5°	15160	15317	15569
10°	14637	15411	16187
15°	13948	15381	17140
20°	13129	15465	18500
25°	12224	15845	20319
30°	11301	16346	21796
35°	10268	16875	22253
40°	9053	17194	21231
45°	7716	16724	17021
50°	6395	14872	9658
55°	5209	10048	4620
60°	4809	5843	3991
65°	4637	5375	3244
70°	4375	5273	2318
75°	4072	4813	2253
80°	3712	4729	2475
85°	2847	5665	2729



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	903.1	4.0
10°-20°	2621.5	11.6
20°-30°	4160.3	18.4
30°-40°	5196.1	23.0
40°-50°	4772.4	21.1
50°-60°	2547.0	11.3
60°-70°	1310.9	5.8
70°-80°	720.8	3.2
80°-90°	297.3	1.3
90°-100°	57.4	0.3
100°-110°	3.2	0.0
110°-120°	0.8	0.0
120°-130°	1.0	0.0
130°-140°	1.8	0.0
140°-150°	1.5	0.0
150°-160°	1.2	0.0
160°-170°	0.8	0.0
170°-180°	0.3	0.0
0°-30°	7684.9	34.0
0°-40°	12881.0	57.0
0°-60°	20200.4	89.4
0°-90°	22529.4	99.7
90°-120°	61.3	0.3
90°-150°	65.6	0.3
90°-180°	68.0	0.3
0°-180°	22597.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9498	9498	9498	9498	9498	
5°	9354	9378	9450	9596	9606	884
15°	8345	8617	9202	9951	10254	2346
25°	6862	7506	8894	10523	11406	3161
35°	5209	6171	8562	10430	11290	3234
45°	3379	4872	7324	7590	7454	2616
55°	1850	3318	3570	1999	1641	1709
65°	1214	1591	1407	1147	849	1199
75°	653	724	772	686	361	693
85°	154	201	306	402	147	176
90°	0	57	150	244	32	6
95°	0	6	57	112	14	0
105°	0	2	2	2	0	0
115°	0	2	2	0	0	0
125°	0	2	2	0	0	1
135°	2	3	3	2	2	1
145°	2	3	3	2	2	1
155°	3	3	3	2	2	1
165°	3	5	3	2	2	1
175°	5	5	3	2	2	0
180°	3	3	3	3	3	



TEST NUMBER: P685878

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9498.0	9498.0	9498.0	9498.0	9498.0
2.5°	9553.4	9532.8	9464.7	9526.5	9521.7
5°	9353.8	9377.6	9450.4	9596.2	9605.7
7.5°	9265.1	9330.0	9371.2	9686.5	9727.7
10°	8927.6	9029.0	9399.7	9727.7	9873.4
12.5°	8674.1	8878.5	9238.1	9794.2	10047.7
15°	8344.6	8617.1	9201.7	9951.1	10253.7
17.5°	8064.2	8343.0	9090.8	10069.9	10492.9
20°	7641.1	8146.5	9000.5	10193.5	10767.0
22.5°	7338.5	7850.3	8930.8	10302.8	11091.8
25°	6861.7	7506.5	8894.3	10523.0	11405.5
27.5°	6462.4	7216.6	8813.5	10664.0	11613.0
30°	6061.6	6861.7	8767.6	10689.4	11690.7
32.5°	5578.4	6573.3	8651.9	10630.7	11579.8
35°	5209.2	6170.9	8561.6	10429.5	11289.8
37.5°	4759.3	5854.0	8363.6	10065.1	10814.5
40°	4295.1	5560.9	8157.6	9496.4	10073.1
42.5°	3826.1	5231.4	7828.1	8737.5	8913.4
45°	3379.3	4871.8	7324.3	7590.4	7454.2
47.5°	2978.5	4485.2	6728.6	6151.9	5831.9
50°	2546.0	4092.3	5920.6	4683.2	3845.1
52.5°	2156.3	3764.3	4808.4	3171.8	2392.3
55°	1850.5	3317.6	3569.5	1999.4	1641.3
57.5°	1633.4	2975.3	2576.1	1581.1	1405.3
60°	1489.3	2547.6	1809.3	1451.2	1235.8
62.5°	1346.7	2015.2	1547.9	1322.9	1039.3
65°	1213.6	1590.7	1406.9	1147.0	849.2
67.5°	1075.7	1291.2	1270.6	1040.9	708.2
70°	926.8	1061.5	1116.9	871.4	491.1
72.5°	793.7	890.4	950.6	744.6	416.7
75°	652.7	724.0	771.6	686.0	361.2
77.5°	518.1	583.0	629.0	621.1	316.9
80°	399.2	442.0	508.6	556.1	266.2
82.5°	272.5	304.2	400.8	480.0	207.5
85°	153.7	201.2	305.8	402.4	147.3
87.5°	44.4	118.8	221.8	323.2	85.6
90°	0.0	57.0	150.5	244.0	31.7
92.5°	0.0	22.2	98.2	171.1	22.2
95°	0.0	6.3	57.0	112.5	14.3
97.5°	0.0	1.6	26.9	66.5	6.3
100°	0.0	1.6	9.5	31.7	1.6
102.5°	0.0	1.6	3.2	11.1	0.0
105°	0.0	1.6	1.6	1.6	0.0
107.5°	0.0	1.6	1.6	0.0	0.0
110°	0.0	1.6	1.6	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	1.6	1.6	0.0	0.0
115°	0.0	1.6	1.6	0.0	0.0
117.5°	0.0	1.6	1.6	0.0	0.0
120°	0.0	1.6	1.6	0.0	0.0
122.5°	0.0	1.6	1.6	0.0	0.0
125°	0.0	1.6	1.6	0.0	0.0
127.5°	1.6	1.6	1.6	1.6	0.0
130°	1.6	3.2	3.2	1.6	0.0
132.5°	1.6	3.2	3.2	1.6	0.0
135°	1.6	3.2	3.2	1.6	1.6
137.5°	1.6	3.2	3.2	1.6	1.6
140°	1.6	3.2	3.2	1.6	1.6
142.5°	1.6	3.2	3.2	1.6	1.6
145°	1.6	3.2	3.2	1.6	1.6
147.5°	1.6	3.2	3.2	1.6	1.6
150°	1.6	3.2	3.2	1.6	1.6
152.5°	3.2	3.2	3.2	1.6	1.6
155°	3.2	3.2	3.2	1.6	1.6
157.5°	3.2	3.2	3.2	1.6	1.6
160°	3.2	3.2	3.2	1.6	1.6
162.5°	3.2	4.8	3.2	1.6	1.6
165°	3.2	4.8	3.2	1.6	1.6
167.5°	3.2	4.8	3.2	1.6	1.6
170°	3.2	4.8	3.2	1.6	1.6
172.5°	3.2	4.8	3.2	1.6	1.6
175°	4.8	4.8	3.2	1.6	1.6
177.5°	4.8	4.8	3.2	3.2	3.2
180°	3.2	3.2	3.2	3.2	3.2

(END OF REPORT)