

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: P685688

Luminaire Tested: **8CZL-32-UNV-LVR-L850-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685688
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-32-UNV-LVR-L850-CD-U
Description: METALUX CRUZE LINEAR 8FT LOUVER MODEL @80 CRI and 5000K
Light Source: (1176) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

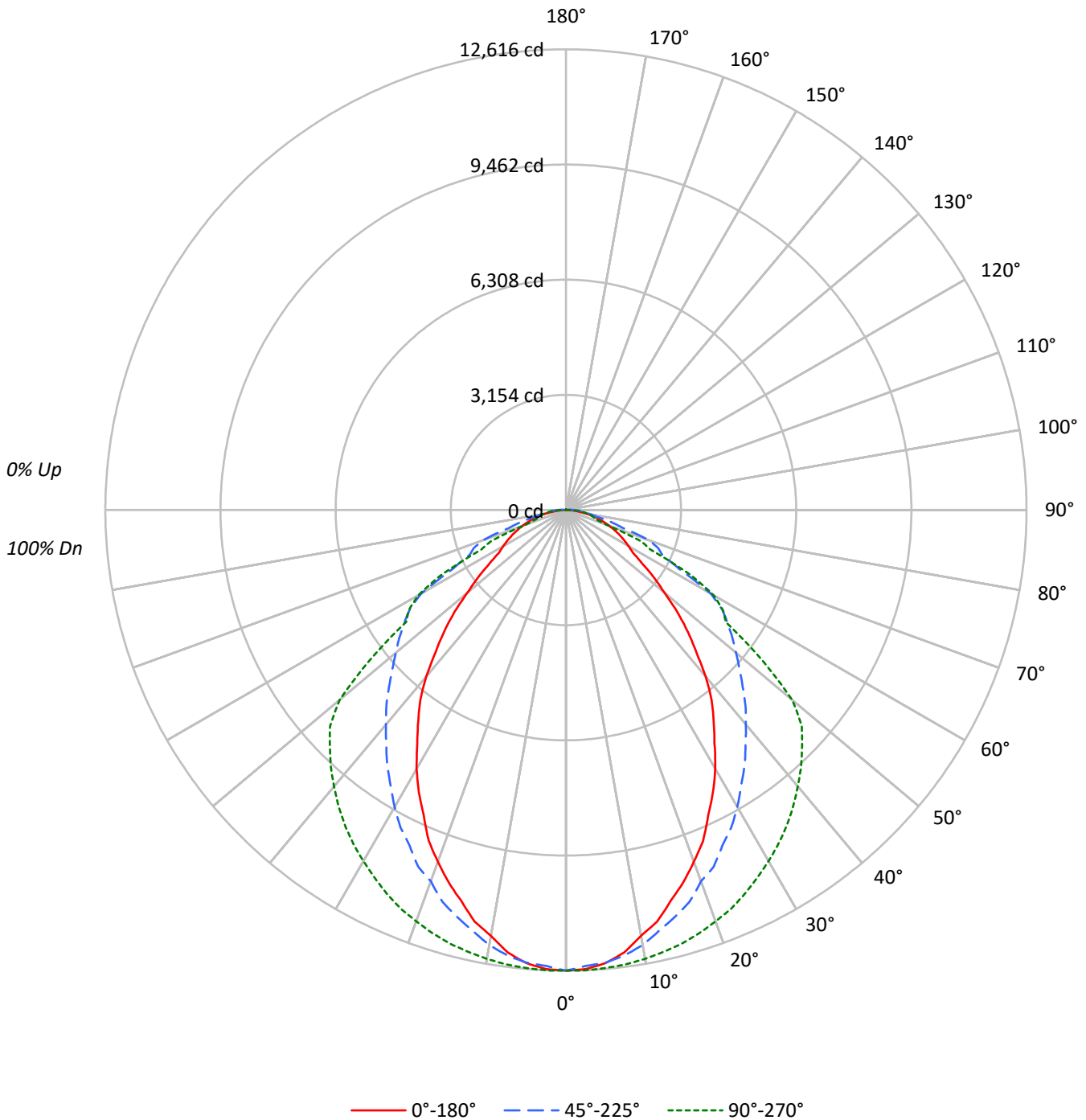
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28567.0 lumens
Efficiency: N/A
Efficacy: 138.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.31 / 1.26
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 (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				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	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	88	88	88	85
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	75	75	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	65	65	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	56	56	56	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	49	49	49	49	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	44	44	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	39	39	39	37
8	63	50	42	36	61	49	42	36	48	41	36	47	40	36	46	40	35	35	35	35	34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	32	32	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	34	29	29	29	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20367	20367	20367
5°	20190	20162	20403
10°	19406	19833	20462
15°	18524	19278	20545
20°	17614	18594	20593
25°	16427	18057	20661
30°	15252	17502	20694
35°	13905	16816	20790
40°	12544	16161	20827
45°	10789	15643	20881
50°	8818	15274	20333
55°	7180	15215	15038
60°	6402	14790	15088
65°	6190	11099	9730
70°	5947	11375	5530
75°	5732	8017	4937
80°	5227	6521	5884
85°	4681	8129	7330



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1181.5	4.1
10°-20°	3275.4	11.5
20°-30°	4738.7	16.6
30°-40°	5408.6	18.9
40°-50°	5314.4	18.6
50°-60°	4239.0	14.8
60°-70°	2670.1	9.3
70°-80°	1182.9	4.1
80°-90°	453.6	1.6
90°-100°	90.0	0.3
100°-110°	6.0	0.0
110°-120°	0.7	0.0
120°-130°	0.9	0.0
130°-140°	1.4	0.0
140°-150°	1.2	0.0
150°-160°	1.0	0.0
160°-170°	1.0	0.0
170°-180°	0.4	0.0
0°-30°	9195.7	32.2
0°-40°	14604.3	51.1
0°-60°	24157.8	84.6
0°-90°	28464.4	99.6
90°-120°	96.7	0.3
90°-150°	100.2	0.4
90°-180°	103.0	0.4
0°-180°	28567.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12614	12614	12614	12614	12614	
5°	12457	12485	12440	12544	12589	1170
15°	11082	11192	11533	12074	12291	3120
25°	9221	9519	10136	11065	11597	4249
35°	7054	7482	8532	9789	10547	4410
45°	4725	5413	6851	8385	9145	3631
55°	2551	3454	5405	5828	5342	2345
65°	1620	2206	2905	3095	2547	1605
75°	919	1062	1285	974	791	963
85°	253	308	439	566	396	267
90°	2	106	231	337	65	15
95°	2	16	96	165	22	2
105°	2	2	2	6	0	2
115°	2	2	0	0	0	2
125°	2	4	0	0	0	2
135°	2	4	2	0	0	2
145°	4	4	2	0	0	2
155°	4	4	2	0	0	2
165°	6	6	4	2	0	2
175°	6	6	4	2	2	1
180°	4	4	4	4	4	



TEST NUMBER: P685688

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12614.2	12614.2	12614.2	12614.2	12614.2
2.5°	12580.8	12573.0	12496.6	12604.4	12616.1
5°	12457.4	12484.9	12439.8	12543.6	12588.7
7.5°	12220.4	12249.8	12302.7	12492.7	12547.5
10°	11836.4	11910.9	12097.0	12363.4	12480.9
12.5°	11542.6	11634.6	11801.2	12253.7	12388.9
15°	11082.2	11191.9	11532.8	12073.5	12290.9
17.5°	10690.4	10890.2	11252.6	11846.2	12149.9
20°	10251.6	10412.2	10821.6	11622.9	11985.3
22.5°	9812.7	10016.5	10574.8	11325.1	11818.8
25°	9221.1	9518.9	10136.0	11064.6	11597.4
27.5°	8719.6	9095.7	9804.9	10757.0	11350.6
30°	8180.9	8472.8	9387.6	10443.6	11099.8
32.5°	7573.6	8032.0	8937.1	10085.1	10837.3
35°	7054.4	7481.5	8531.5	9789.2	10547.4
37.5°	6552.9	6954.5	8082.9	9454.2	10226.1
40°	5951.5	6480.4	7667.6	9072.2	9881.3
42.5°	5285.4	5933.9	7281.7	8711.8	9530.6
45°	4725.2	5412.8	6850.7	8384.6	9144.7
47.5°	4143.3	4868.2	6447.1	7986.9	8762.7
50°	3510.6	4392.1	6080.8	7618.6	8094.7
52.5°	3048.2	3896.5	5751.7	6952.6	6823.3
55°	2550.6	3453.8	5404.9	5828.1	5342.3
57.5°	2172.6	3054.1	5079.7	4576.3	5099.3
60°	1982.5	2734.8	4580.2	4356.9	4672.3
62.5°	1804.3	2454.7	3502.7	4086.5	3843.6
65°	1620.1	2205.9	2905.2	3095.3	2546.7
67.5°	1441.8	1990.4	2738.7	2311.6	2217.6
70°	1259.7	1823.9	2409.6	1970.8	1171.5
72.5°	1087.3	1631.9	1647.5	1091.2	869.8
75°	918.8	1061.8	1285.1	973.6	791.4
77.5°	734.6	910.9	860.0	871.8	717.0
80°	562.2	626.9	701.3	779.7	632.8
82.5°	397.7	466.2	568.1	681.7	519.1
85°	252.7	307.6	438.8	566.2	395.7
87.5°	99.9	193.9	327.2	456.5	233.1
90°	2.0	105.8	231.2	337.0	64.6
92.5°	2.0	49.0	154.8	246.8	33.3
95°	2.0	15.7	96.0	164.6	21.5
97.5°	2.0	5.9	50.9	101.9	11.8
100°	2.0	2.0	21.5	54.9	5.9
102.5°	2.0	2.0	7.8	21.5	2.0
105°	2.0	2.0	2.0	5.9	0.0
107.5°	2.0	2.0	0.0	0.0	0.0
110°	2.0	2.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.0	2.0	0.0	0.0	0.0
115°	2.0	2.0	0.0	0.0	0.0
117.5°	2.0	2.0	0.0	0.0	0.0
120°	2.0	2.0	0.0	0.0	0.0
122.5°	2.0	2.0	0.0	0.0	0.0
125°	2.0	3.9	0.0	0.0	0.0
127.5°	2.0	2.0	0.0	0.0	0.0
130°	2.0	3.9	2.0	0.0	0.0
132.5°	2.0	3.9	2.0	0.0	0.0
135°	2.0	3.9	2.0	0.0	0.0
137.5°	2.0	3.9	2.0	0.0	0.0
140°	3.9	3.9	2.0	0.0	0.0
142.5°	3.9	3.9	2.0	0.0	0.0
145°	3.9	3.9	2.0	0.0	0.0
147.5°	3.9	3.9	2.0	0.0	0.0
150°	3.9	3.9	2.0	0.0	0.0
152.5°	3.9	3.9	2.0	0.0	0.0
155°	3.9	3.9	2.0	0.0	0.0
157.5°	3.9	5.9	2.0	0.0	0.0
160°	5.9	5.9	2.0	0.0	0.0
162.5°	5.9	5.9	3.9	2.0	0.0
165°	5.9	5.9	3.9	2.0	0.0
167.5°	5.9	5.9	3.9	2.0	0.0
170°	5.9	5.9	3.9	2.0	2.0
172.5°	5.9	5.9	3.9	2.0	2.0
175°	5.9	5.9	3.9	2.0	2.0
177.5°	5.9	5.9	3.9	2.0	2.0
180°	3.9	3.9	3.9	3.9	3.9

(END OF REPORT)