

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: P685798

Luminaire Tested: **8CZL-32-UNV-M-LVR-L840-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685798
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-32-UNV-M-LVR-L840-CD-U
Description: METALUX CRUZE LINEAR 8FT LOUVER MODEL WITH MEDIUM LENS @80 CRI and 4000K
Light Source: (1176) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

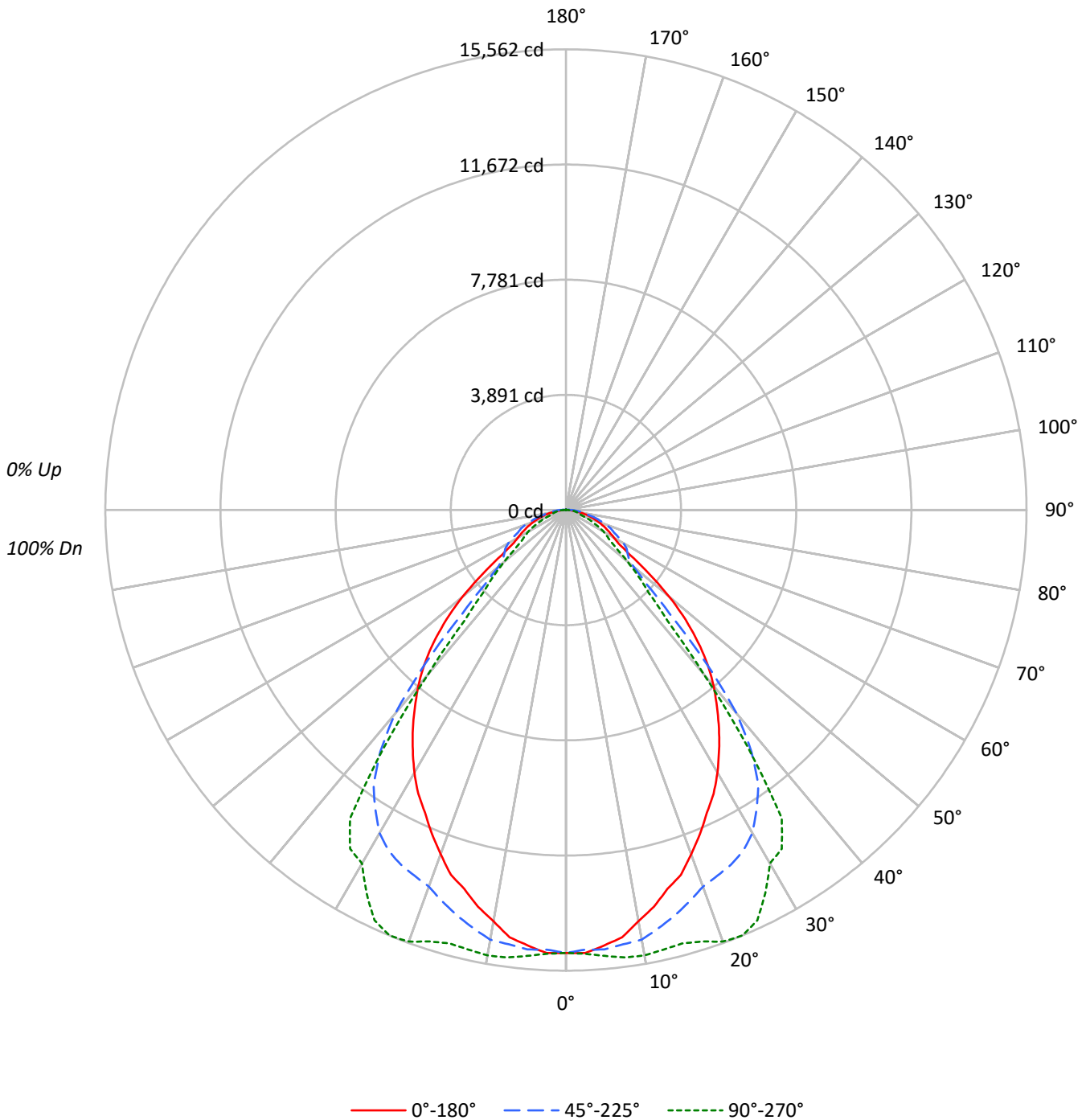
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27674.9 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.34 / 1.2
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	
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	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88
2	103	96	90	86	100	94	89	84	91	86	83	87	84	81	84	81	79	77
3	95	87	80	74	93	85	79	74	82	77	72	79	75	71	77	73	70	68
4	89	78	71	65	86	77	70	65	75	69	64	73	67	63	70	66	62	60
5	83	72	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49
7	72	60	53	47	70	59	52	47	58	51	47	57	51	46	55	50	46	44
8	68	56	48	43	66	55	48	43	54	47	42	52	47	42	51	46	42	40
9	64	52	44	39	62	51	44	39	50	43	39	49	43	39	48	42	39	37
10	60	48	41	36	59	47	41	36	46	40	36	46	40	36	45	39	35	34

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24155	24155	24155
5°	23931	24146	24507
10°	23121	24160	25043
15°	22148	23710	25337
20°	21254	23259	26654
25°	20081	23535	27247
30°	19087	23484	25699
35°	17772	22332	25059
40°	16360	18930	15271
45°	14415	11283	9051
50°	11442	7492	6831
55°	7408	7128	5184
60°	6048	7244	4762
65°	5761	6827	3890
70°	5470	6852	3076
75°	5197	6414	2860
80°	4807	6059	3211
85°	4300	7408	3938



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1419.7	5.1
10°-20°	4026.9	14.6
20°-30°	6072.4	21.9
30°-40°	6709.7	24.2
40°-50°	4207.0	15.2
50°-60°	2265.0	8.2
60°-70°	1538.3	5.6
70°-80°	918.8	3.3
80°-90°	399.2	1.4
90°-100°	87.5	0.3
100°-110°	10.1	0.0
110°-120°	3.6	0.0
120°-130°	3.3	0.0
130°-140°	4.0	0.0
140°-150°	3.6	0.0
150°-160°	2.9	0.0
160°-170°	2.2	0.0
170°-180°	0.8	0.0
0°-30°	11518.9	41.6
0°-40°	18228.7	65.9
0°-60°	24700.7	89.3
0°-90°	27556.9	99.6
90°-120°	101.2	0.4
90°-150°	112.1	0.4
90°-180°	118.0	0.4
0°-180°	27674.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14961	14961	14961	14961	14961	
5°	14766	14791	14898	15074	15121	1391
15°	13250	13714	14184	14871	15158	3741
25°	11272	11956	13211	14619	15294	5204
35°	9017	10076	11330	12188	12713	5627
45°	6313	6873	4941	4028	3964	4815
55°	2632	2753	2532	2191	1842	2556
65°	1508	1658	1787	1451	1018	1492
75°	833	927	1028	845	458	878
85°	232	285	400	527	213	250
90°	6	88	203	338	62	16
95°	2	14	80	174	31	2
105°	2	4	6	14	6	2
115°	2	4	4	4	4	2
125°	2	4	4	4	4	2
135°	4	4	6	6	6	3
145°	4	6	6	6	8	2
155°	6	6	6	6	6	3
165°	6	8	8	8	8	2
175°	8	8	8	10	10	1
180°	10	10	10	10	10	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14960.6	14960.6	14960.6	14960.6	14960.6
2.5°	14980.1	14939.2	14863.1	14999.6	15001.6
5°	14765.5	14790.9	14898.2	15073.8	15120.6
7.5°	14556.8	14654.3	14798.7	15222.0	15243.5
10°	14102.3	14305.1	14736.3	15144.0	15274.7
12.5°	13723.8	14024.2	14469.0	15005.5	15208.4
15°	13249.8	13714.1	14184.2	14870.9	15157.6
17.5°	12918.1	13290.7	13866.2	14808.5	15278.6
20°	12370.0	12894.7	13536.5	14851.4	15512.7
22.5°	11837.4	12475.3	13370.7	14867.0	15561.5
25°	11271.7	11956.4	13210.8	14619.2	15294.2
27.5°	10803.5	11377.0	12972.8	14102.3	14590.0
30°	10237.7	10912.7	12596.3	13312.2	13784.3
32.5°	9629.1	10485.5	11985.7	12707.5	13565.8
35°	9016.6	10075.8	11330.2	12188.5	12713.3
37.5°	8376.7	9738.3	10300.2	10438.7	10079.7
40°	7762.2	9268.2	8981.4	7641.2	7245.2
42.5°	7091.1	8257.7	7005.3	5257.4	5079.9
45°	6312.8	6872.6	4941.4	4028.4	3964.0
47.5°	5483.7	5321.8	3685.0	3367.1	3330.0
50°	4555.1	4254.7	2982.8	2971.1	2719.4
52.5°	3550.4	3378.8	2674.5	2577.0	2177.1
55°	2631.6	2752.6	2532.1	2190.7	1841.5
57.5°	2106.9	2387.8	2432.6	1913.7	1646.5
60°	1872.8	2089.3	2243.4	1759.6	1474.8
62.5°	1679.6	1851.3	2009.3	1632.8	1271.9
65°	1508.0	1658.2	1786.9	1451.4	1018.3
67.5°	1326.5	1482.6	1640.6	1246.6	866.2
70°	1158.8	1324.6	1451.4	1106.1	651.6
72.5°	985.1	1156.8	1213.4	924.7	520.9
75°	833.0	926.6	1028.1	844.7	458.4
77.5°	673.0	753.0	794.0	774.5	403.8
80°	517.0	581.3	651.6	704.2	345.3
82.5°	378.5	425.3	520.9	620.4	277.0
85°	232.1	284.8	399.9	526.7	212.6
87.5°	103.4	169.7	294.6	435.0	136.6
90°	5.9	87.8	202.9	337.5	62.4
92.5°	2.0	39.0	132.7	249.7	42.9
95°	2.0	13.7	80.0	173.6	31.2
97.5°	2.0	5.9	44.9	111.2	19.5
100°	2.0	3.9	21.5	64.4	13.7
102.5°	2.0	3.9	9.8	31.2	9.8
105°	2.0	3.9	5.9	13.7	5.9
107.5°	2.0	3.9	3.9	5.9	3.9
110°	2.0	3.9	3.9	3.9	3.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.0	3.9	3.9	3.9	3.9
115°	2.0	3.9	3.9	3.9	3.9
117.5°	2.0	3.9	3.9	3.9	3.9
120°	2.0	3.9	3.9	3.9	3.9
122.5°	2.0	3.9	3.9	3.9	3.9
125°	2.0	3.9	3.9	3.9	3.9
127.5°	2.0	3.9	3.9	3.9	3.9
130°	2.0	3.9	3.9	3.9	3.9
132.5°	3.9	3.9	5.9	5.9	5.9
135°	3.9	3.9	5.9	5.9	5.9
137.5°	3.9	5.9	5.9	5.9	5.9
140°	3.9	5.9	5.9	5.9	5.9
142.5°	3.9	5.9	5.9	5.9	5.9
145°	3.9	5.9	5.9	5.9	7.8
147.5°	3.9	5.9	5.9	5.9	7.8
150°	3.9	5.9	5.9	5.9	5.9
152.5°	5.9	5.9	5.9	5.9	5.9
155°	5.9	5.9	5.9	5.9	5.9
157.5°	5.9	5.9	5.9	7.8	7.8
160°	5.9	7.8	7.8	7.8	7.8
162.5°	5.9	7.8	7.8	7.8	7.8
165°	5.9	7.8	7.8	7.8	7.8
167.5°	5.9	7.8	7.8	7.8	9.8
170°	7.8	7.8	7.8	9.8	9.8
172.5°	7.8	7.8	7.8	9.8	9.8
175°	7.8	7.8	7.8	9.8	9.8
177.5°	7.8	9.8	7.8	9.8	11.7
180°	9.8	9.8	9.8	9.8	9.8

(END OF REPORT)