

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: P685846

Luminaire Tested: **8CZL-18-UNV-W-LVR-L835-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685846
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-L835-CD-U
Description: METALUX CRUZE LINEAR 8FT LOUVER MODEL WITH WIDE LENS @80 CRI and 3500K
Light Source: (1176) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

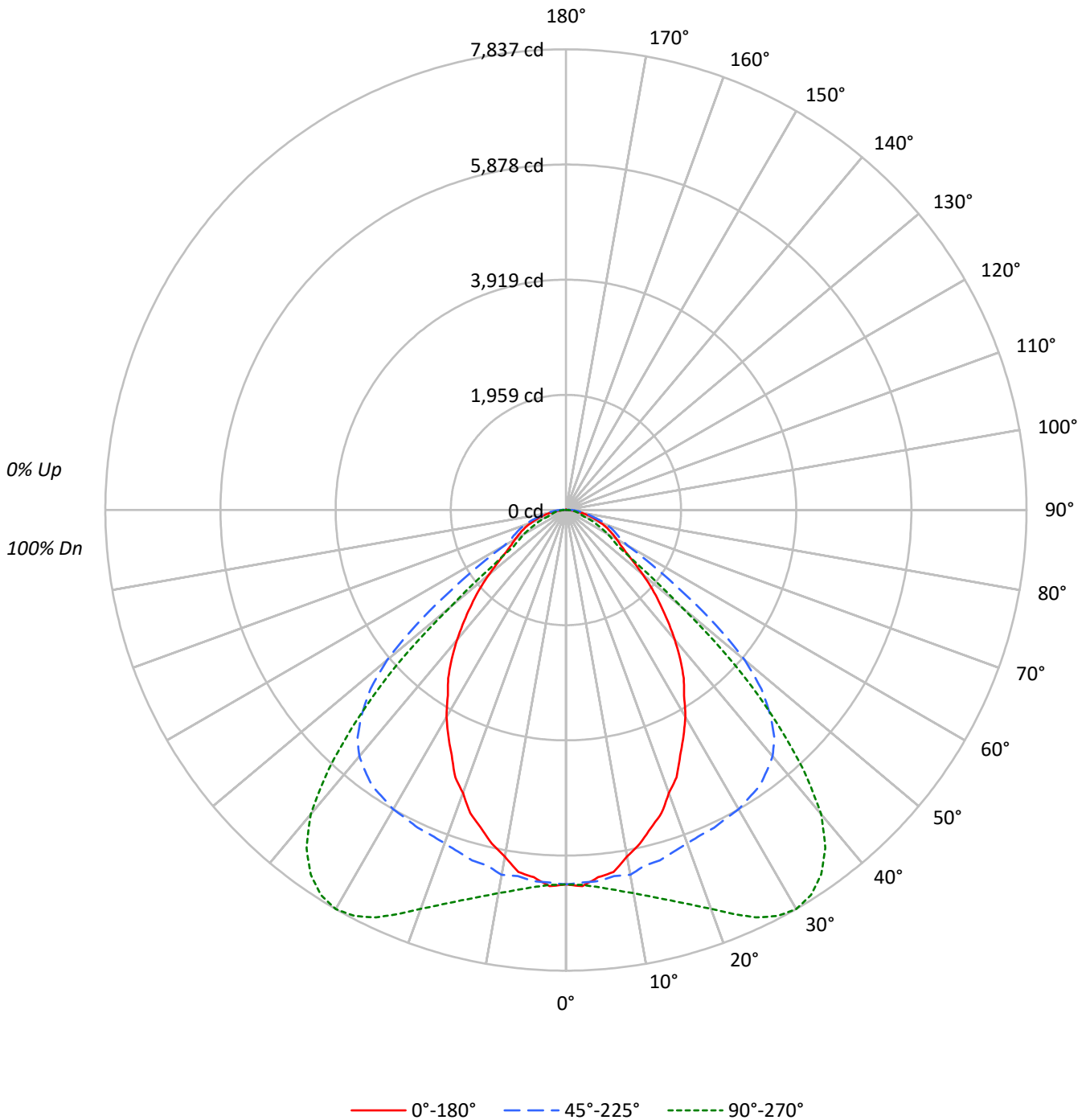
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15148.8 lumens
Efficiency: N/A
Efficacy: 139.0 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	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	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	89	87	
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	77	75	
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	68	66	
4	87	76	68	62	85	75	68	62	72	66	61	70	65	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	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	47	45	
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	40	
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	38	36	
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	34	34	33	
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	31	30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10281	10281	10281
5°	10163	10268	10437
10°	9812	10331	10852
15°	9351	10311	11490
20°	8802	10367	12402
25°	8195	10622	13621
30°	7576	10958	14611
35°	6883	11313	14918
40°	6069	11526	14233
45°	5173	11212	11411
50°	4287	9970	6475
55°	3492	6736	3097
60°	3224	3917	2675
65°	3108	3603	2175
70°	2933	3535	1554
75°	2730	3226	1511
80°	2488	3170	1659
85°	1908	3798	1830



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	605.4	4.0
10°-20°	1757.4	11.6
20°-30°	2789.0	18.4
30°-40°	3483.4	23.0
40°-50°	3199.4	21.1
50°-60°	1707.4	11.3
60°-70°	878.8	5.8
70°-80°	483.2	3.2
80°-90°	199.3	1.3
90°-100°	38.5	0.3
100°-110°	2.1	0.0
110°-120°	0.5	0.0
120°-130°	0.7	0.0
130°-140°	1.2	0.0
140°-150°	1.0	0.0
150°-160°	0.8	0.0
160°-170°	0.6	0.0
170°-180°	0.2	0.0
0°-30°	5151.8	34.0
0°-40°	8635.2	57.0
0°-60°	13542.0	89.4
0°-90°	15103.3	99.7
90°-120°	41.1	0.3
90°-150°	44.0	0.3
90°-180°	46.0	0.3
0°-180°	15148.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6367	6367	6367	6367	6367	
5°	6271	6286	6335	6433	6440	592
15°	5594	5777	6169	6671	6874	1573
25°	4600	5032	5963	7054	7646	2119
35°	3492	4137	5740	6992	7568	2168
45°	2265	3266	4910	5088	4997	1754
55°	1240	2224	2393	1340	1100	1145
65°	814	1066	943	769	569	804
75°	438	485	517	460	242	464
85°	103	135	205	270	99	118
90°	0	38	101	164	21	4
95°	0	4	38	75	10	0
105°	0	1	1	1	0	0
115°	0	1	1	0	0	0
125°	0	1	1	0	0	1
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°	6367.3	6367.3	6367.3	6367.3	6367.3
2.5°	6404.4	6390.6	6345.0	6386.4	6383.2
5°	6270.6	6286.5	6335.4	6433.1	6439.5
7.5°	6211.1	6254.7	6282.3	6493.6	6521.3
10°	5984.9	6052.9	6301.4	6521.3	6619.0
12.5°	5815.0	5952.0	6193.1	6565.9	6735.8
15°	5594.1	5776.7	6168.6	6671.0	6873.9
17.5°	5406.1	5593.0	6094.3	6750.7	7034.3
20°	5122.5	5461.3	6033.8	6833.5	7218.0
22.5°	4919.6	5262.7	5987.0	6906.8	7435.7
25°	4599.9	5032.2	5962.6	7054.4	7646.0
27.5°	4332.3	4837.8	5908.4	7149.0	7785.2
30°	4063.6	4599.9	5877.6	7166.0	7837.2
32.5°	3739.6	4406.6	5800.1	7126.7	7762.8
35°	3492.2	4136.9	5739.6	6991.8	7568.5
37.5°	3190.5	3924.4	5606.8	6747.5	7249.9
40°	2879.3	3728.0	5468.7	6366.2	6752.8
42.5°	2565.0	3507.0	5247.8	5857.5	5975.3
45°	2265.4	3265.9	4910.1	5088.5	4997.2
47.5°	1996.7	3006.8	4510.7	4124.1	3909.6
50°	1706.8	2743.4	3969.0	3139.6	2577.7
52.5°	1445.5	2523.5	3223.5	2126.3	1603.8
55°	1240.5	2224.0	2392.9	1340.4	1100.3
57.5°	1095.0	1994.6	1727.0	1060.0	942.1
60°	998.4	1707.8	1212.9	972.9	828.4
62.5°	902.8	1351.0	1037.7	886.8	696.7
65°	813.6	1066.3	943.1	769.0	569.3
67.5°	721.2	865.6	851.8	697.8	474.8
70°	621.3	711.6	748.8	584.2	329.2
72.5°	532.1	596.9	637.3	499.2	279.3
75°	437.6	485.4	517.2	459.9	242.2
77.5°	347.3	390.9	421.7	416.3	212.4
80°	267.6	296.3	340.9	372.8	178.4
82.5°	182.7	203.9	268.7	321.8	139.1
85°	103.0	134.9	205.0	269.8	98.8
87.5°	29.7	79.7	148.7	216.7	57.4
90°	0.0	38.2	100.9	163.6	21.2
92.5°	0.0	14.9	65.8	114.7	14.9
95°	0.0	4.2	38.2	75.4	9.6
97.5°	0.0	1.1	18.1	44.6	4.2
100°	0.0	1.1	6.4	21.2	1.1
102.5°	0.0	1.1	2.1	7.4	0.0
105°	0.0	1.1	1.1	1.1	0.0
107.5°	0.0	1.1	1.1	0.0	0.0
110°	0.0	1.1	1.1	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	1.1	1.1	0.0	0.0
115°	0.0	1.1	1.1	0.0	0.0
117.5°	0.0	1.1	1.1	0.0	0.0
120°	0.0	1.1	1.1	0.0	0.0
122.5°	0.0	1.1	1.1	0.0	0.0
125°	0.0	1.1	1.1	0.0	0.0
127.5°	1.1	1.1	1.1	1.1	0.0
130°	1.1	2.1	2.1	1.1	0.0
132.5°	1.1	2.1	2.1	1.1	0.0
135°	1.1	2.1	2.1	1.1	1.1
137.5°	1.1	2.1	2.1	1.1	1.1
140°	1.1	2.1	2.1	1.1	1.1
142.5°	1.1	2.1	2.1	1.1	1.1
145°	1.1	2.1	2.1	1.1	1.1
147.5°	1.1	2.1	2.1	1.1	1.1
150°	1.1	2.1	2.1	1.1	1.1
152.5°	2.1	2.1	2.1	1.1	1.1
155°	2.1	2.1	2.1	1.1	1.1
157.5°	2.1	2.1	2.1	1.1	1.1
160°	2.1	2.1	2.1	1.1	1.1
162.5°	2.1	3.2	2.1	1.1	1.1
165°	2.1	3.2	2.1	1.1	1.1
167.5°	2.1	3.2	2.1	1.1	1.1
170°	2.1	3.2	2.1	1.1	1.1
172.5°	2.1	3.2	2.1	1.1	1.1
175°	3.2	3.2	2.1	1.1	1.1
177.5°	3.2	3.2	2.1	2.1	2.1
180°	2.1	2.1	2.1	2.1	2.1

(END OF REPORT)