

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: P685906

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

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685906
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-L835-CD-U
Description: METALUX CRUZE LINEAR 8FT LOUVER MODEL WITH FROSTED LAY-IN @80 CRI and 3500K
Light Source: (1176) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

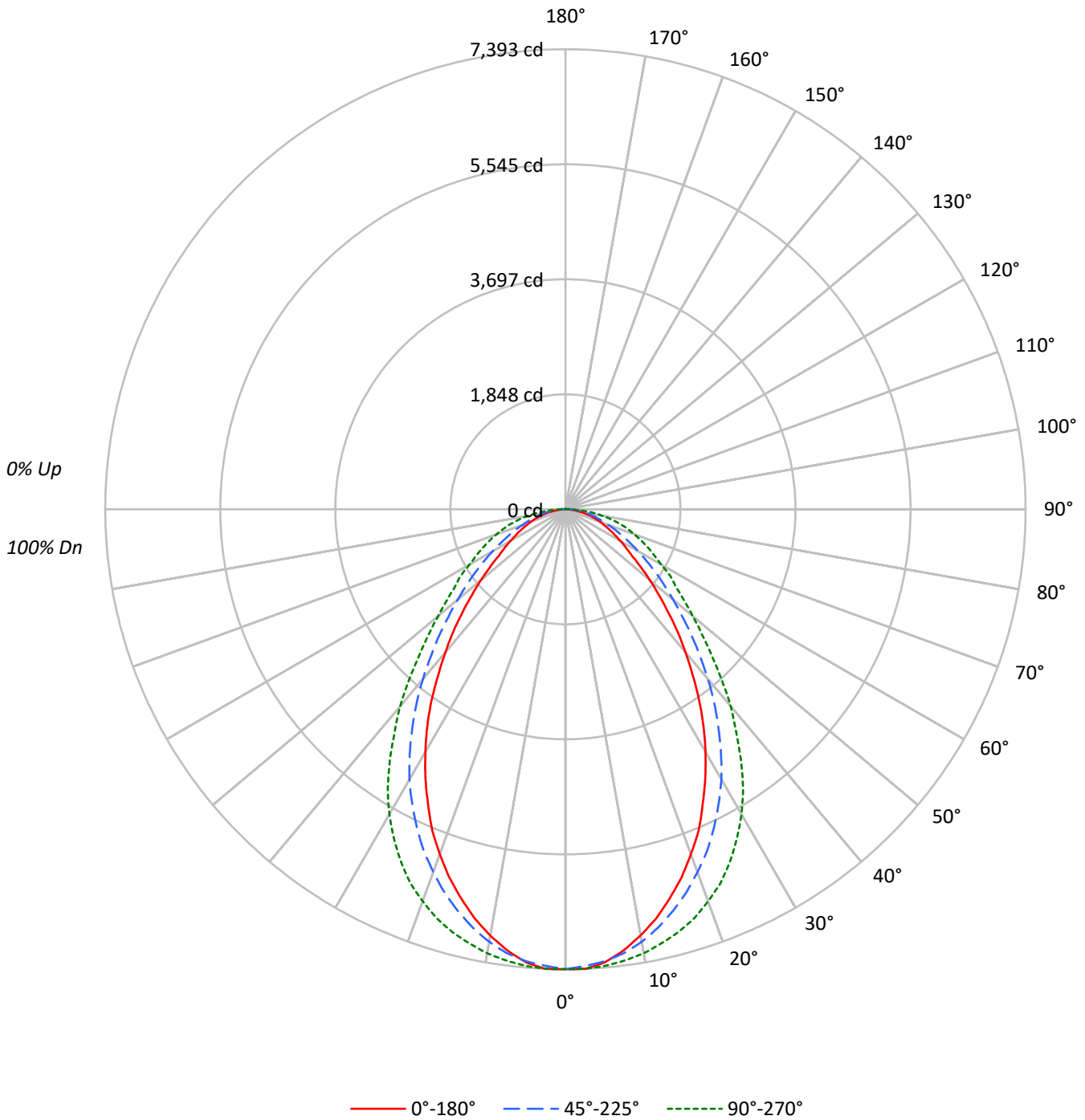
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13632.0 lumens
Efficiency: N/A
Efficacy: 125.1 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	100	100	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86	86	86
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	82	79	76	74	74	74
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	74	70	67	65	65	65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57	57	57
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	51	51	51
6	75	63	55	49	73	62	54	48	60	53	48	58	52	48	57	51	47	45	45	45
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	41	41	41
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37	37	37
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34	34	34
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31	31	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11932	11932	11932
5°	11845	11817	11936
10°	11402	11571	11877
15°	10819	11167	11752
20°	10132	10657	11518
25°	9303	10054	11137
30°	8386	9344	10546
35°	7385	8451	9686
40°	6322	7503	8710
45°	5326	6541	7586
50°	4447	5669	6707
55°	3680	4981	6081
60°	3316	4366	5734
65°	3015	3843	5608
70°	2808	3449	5565
75°	2604	3220	5678
80°	2360	3189	5688
85°	2027	3738	5626



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	691.5	5.1
10°-20°	1889.6	13.9
20°-30°	2610.9	19.2
30°-40°	2685.9	19.7
40°-50°	2201.9	16.2
50°-60°	1580.0	11.6
60°-70°	1062.7	7.8
70°-80°	620.3	4.6
80°-90°	239.0	1.8
90°-100°	41.4	0.3
100°-110°	3.5	0.0
110°-120°	0.7	0.0
120°-130°	0.6	0.0
130°-140°	0.9	0.0
140°-150°	1.1	0.0
150°-160°	0.9	0.0
160°-170°	0.7	0.0
170°-180°	0.3	0.0
0°-30°	5192.0	38.1
0°-40°	7877.9	57.8
0°-60°	11659.9	85.5
0°-90°	13581.9	99.6
90°-120°	45.6	0.3
90°-150°	48.2	0.4
90°-180°	50.0	0.4
0°-180°	13632.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7390	7390	7390	7390	7390	
5°	7308	7313	7291	7359	7364	686
15°	6472	6538	6680	6940	7031	1815
25°	5222	5344	5644	6037	6251	2397
35°	3747	3920	4288	4689	4914	2335
45°	2332	2514	2864	3146	3322	1810
55°	1307	1464	1769	2012	2160	1203
65°	789	836	1006	1292	1468	786
75°	417	432	516	717	910	443
85°	109	136	202	302	304	118
90°	1	46	103	157	33	7
95°	1	7	44	75	14	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°	7389.8	7389.8	7389.8	7389.8	7389.8
2.5°	7393.0	7386.6	7345.2	7393.0	7390.9
5°	7308.0	7313.3	7291.0	7359.0	7364.3
7.5°	7149.8	7171.0	7195.5	7295.3	7313.3
10°	6954.4	6986.2	7057.4	7206.1	7244.3
12.5°	6734.5	6769.6	6885.3	7090.3	7143.4
15°	6472.2	6538.0	6680.4	6939.5	7030.8
17.5°	6201.4	6282.1	6458.4	6765.3	6888.5
20°	5896.6	5977.3	6202.4	6544.4	6703.7
22.5°	5590.7	5669.3	5944.3	6308.6	6507.2
25°	5222.1	5344.3	5643.8	6036.7	6251.3
27.5°	4869.5	4999.1	5332.6	5754.2	5967.7
30°	4497.8	4649.7	5011.9	5414.4	5656.5
32.5°	4129.3	4283.3	4652.9	5072.4	5312.4
35°	3746.9	3920.1	4287.5	4689.0	4914.2
37.5°	3359.3	3548.3	3926.4	4321.5	4503.1
40°	2999.3	3185.1	3560.0	3913.7	4132.5
42.5°	2666.8	2849.5	3196.8	3517.5	3714.0
45°	2332.3	2513.9	2864.4	3145.8	3322.1
47.5°	2032.8	2218.6	2544.7	2829.3	2977.0
50°	1770.5	1939.3	2256.9	2515.0	2670.0
52.5°	1530.4	1684.4	1998.8	2249.4	2399.2
55°	1307.4	1463.5	1769.4	2011.5	2160.2
57.5°	1157.6	1269.2	1544.2	1812.9	2004.1
60°	1027.0	1096.0	1352.0	1670.6	1775.8
62.5°	894.3	956.9	1167.2	1447.6	1611.1
65°	789.1	835.8	1005.8	1291.5	1467.8
67.5°	685.0	720.1	865.6	1140.7	1319.1
70°	594.8	617.1	730.7	992.0	1178.9
72.5°	508.7	520.4	622.4	856.0	1041.9
75°	417.4	432.3	516.2	716.9	910.2
77.5°	330.3	351.5	425.9	597.9	759.4
80°	253.8	270.8	343.0	491.7	611.7
82.5°	176.3	199.7	267.6	388.7	468.4
85°	109.4	135.9	201.8	301.6	303.7
87.5°	45.7	85.0	147.6	223.0	155.1
90°	1.1	45.7	103.0	157.2	32.9
92.5°	0.0	21.2	70.1	112.6	19.1
95°	1.1	7.4	43.5	75.4	13.8
97.5°	0.0	2.1	23.4	47.8	8.5
100°	0.0	1.1	9.6	26.6	5.3
102.5°	0.0	1.1	4.2	11.7	3.2
105°	0.0	1.1	2.1	4.2	2.1
107.5°	0.0	1.1	1.1	1.1	1.1
110°	1.1	1.1	1.1	1.1	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°	1.1	1.1	1.1	0.0	0.0
117.5°	1.1	1.1	1.1	0.0	0.0
120°	1.1	1.1	1.1	0.0	0.0
122.5°	1.1	1.1	1.1	0.0	0.0
125°	1.1	1.1	1.1	0.0	0.0
127.5°	1.1	1.1	1.1	0.0	0.0
130°	1.1	1.1	1.1	0.0	0.0
132.5°	1.1	2.1	1.1	1.1	0.0
135°	1.1	2.1	1.1	1.1	0.0
137.5°	1.1	2.1	1.1	1.1	0.0
140°	1.1	2.1	1.1	1.1	1.1
142.5°	2.1	2.1	2.1	1.1	1.1
145°	2.1	2.1	2.1	1.1	1.1
147.5°	2.1	2.1	2.1	1.1	1.1
150°	2.1	2.1	2.1	1.1	1.1
152.5°	2.1	3.2	2.1	1.1	1.1
155°	2.1	3.2	2.1	1.1	1.1
157.5°	2.1	3.2	2.1	1.1	1.1
160°	2.1	3.2	2.1	1.1	1.1
162.5°	3.2	3.2	2.1	2.1	1.1
165°	3.2	3.2	3.2	2.1	1.1
167.5°	3.2	3.2	3.2	2.1	1.1
170°	3.2	3.2	3.2	2.1	2.1
172.5°	3.2	3.2	3.2	2.1	2.1
175°	3.2	4.2	3.2	2.1	2.1
177.5°	3.2	4.2	3.2	2.1	2.1
180°	3.2	3.2	3.2	3.2	3.2

(END OF REPORT)