

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: P685866

Luminaire Tested: **8CZL-18-UNV-W-LVR-L850-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685866
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-L850-CD-U
Description: METALUX CRUZE LINEAR 8FT LOUVER MODEL WITH WIDE LENS @80 CRI and 5000K
Light Source: (1176) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

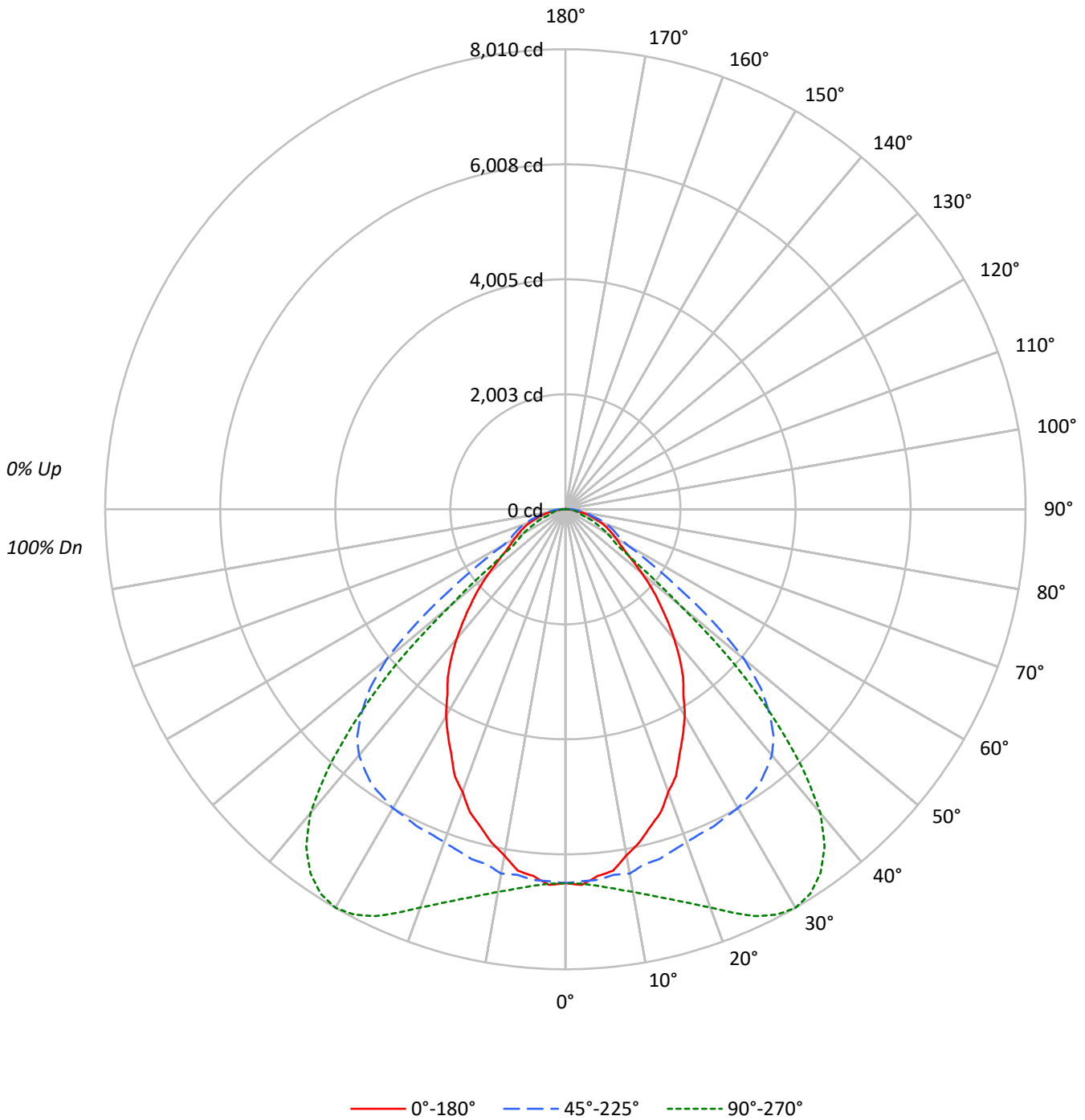
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15483.4 lumens
Efficiency: N/A
Efficacy: 142.0 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	59	57
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10508	10508	10508
5°	10388	10495	10667
10°	10029	10559	11092
15°	9557	10539	11744
20°	8996	10596	12676
25°	8376	10857	13922
30°	7743	11200	14934
35°	7035	11563	15247
40°	6203	11781	14547
45°	5287	11459	11662
50°	4382	10190	6618
55°	3569	6885	3166
60°	3295	4003	2734
65°	3177	3683	2223
70°	2998	3613	1589
75°	2790	3298	1544
80°	2544	3240	1696
85°	1951	3881	1871



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	618.8	4.0
10°-20°	1796.2	11.6
20°-30°	2850.6	18.4
30°-40°	3560.3	23.0
40°-50°	3270.0	21.1
50°-60°	1745.1	11.3
60°-70°	898.2	5.8
70°-80°	493.9	3.2
80°-90°	203.7	1.3
90°-100°	39.3	0.3
100°-110°	2.2	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°	5265.6	34.0
0°-40°	8825.9	57.0
0°-60°	13841.1	89.4
0°-90°	15436.8	99.7
90°-120°	42.0	0.3
90°-150°	45.0	0.3
90°-180°	47.0	0.3
0°-180°	15483.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6508	6508	6508	6508	6508	
5°	6409	6425	6475	6575	6582	605
15°	5718	5904	6305	6818	7026	1608
25°	4702	5143	6094	7210	7815	2166
35°	3569	4228	5866	7146	7736	2216
45°	2316	3338	5018	5201	5108	1792
55°	1268	2273	2446	1370	1125	1171
65°	832	1090	964	786	582	821
75°	447	496	529	470	248	475
85°	105	138	210	276	101	121
90°	0	39	103	167	22	4
95°	0	4	39	77	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°	6507.9	6507.9	6507.9	6507.9	6507.9
2.5°	6545.9	6531.8	6485.1	6527.4	6524.2
5°	6409.1	6425.4	6475.3	6575.2	6581.7
7.5°	6348.3	6392.8	6421.0	6637.1	6665.3
10°	6117.1	6186.6	6440.6	6665.3	6765.2
12.5°	5943.4	6083.4	6329.9	6710.9	6884.6
15°	5717.6	5904.3	6304.9	6818.4	7025.7
17.5°	5525.5	5716.5	6228.9	6899.8	7189.6
20°	5235.6	5581.9	6167.0	6984.4	7377.4
22.5°	5028.3	5378.9	6119.3	7059.3	7600.0
25°	4701.5	5143.3	6094.3	7210.2	7814.9
27.5°	4428.0	4944.7	6038.9	7306.9	7957.1
30°	4153.3	4701.5	6007.4	7324.2	8010.3
32.5°	3822.2	4504.0	5928.2	7284.1	7934.3
35°	3569.3	4228.2	5866.3	7146.2	7735.6
37.5°	3261.0	4011.1	5730.6	6896.5	7410.0
40°	2942.9	3810.3	5589.5	6506.8	6901.9
42.5°	2621.6	3584.5	5363.7	5986.8	6107.3
45°	2315.5	3338.1	5018.5	5200.9	5107.5
47.5°	2040.8	3073.2	4610.3	4215.2	3995.9
50°	1744.5	2804.0	4056.7	3208.9	2634.6
52.5°	1477.4	2579.3	3294.7	2173.3	1639.2
55°	1267.9	2273.1	2445.7	1370.0	1124.6
57.5°	1119.2	2038.7	1765.1	1083.4	962.9
60°	1020.4	1745.6	1239.7	994.4	846.7
62.5°	922.7	1380.8	1060.6	906.4	712.1
65°	831.5	1089.9	964.0	785.9	581.9
67.5°	737.1	884.7	870.6	713.2	485.2
70°	635.0	727.3	765.3	597.1	336.5
72.5°	543.9	610.1	651.3	510.2	285.5
75°	447.2	496.1	528.7	470.0	247.5
77.5°	355.0	399.5	431.0	425.5	217.1
80°	273.6	302.9	348.5	381.0	182.4
82.5°	186.7	208.4	274.6	328.9	142.2
85°	105.3	137.9	209.5	275.7	101.0
87.5°	30.4	81.4	152.0	221.5	58.6
90°	0.0	39.1	103.1	167.2	21.7
92.5°	0.0	15.2	67.3	117.2	15.2
95°	0.0	4.3	39.1	77.1	9.8
97.5°	0.0	1.1	18.5	45.6	4.3
100°	0.0	1.1	6.5	21.7	1.1
102.5°	0.0	1.1	2.2	7.6	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	2.2	2.2	1.1	0.0
132.5°	1.1	2.2	2.2	1.1	0.0
135°	1.1	2.2	2.2	1.1	1.1
137.5°	1.1	2.2	2.2	1.1	1.1
140°	1.1	2.2	2.2	1.1	1.1
142.5°	1.1	2.2	2.2	1.1	1.1
145°	1.1	2.2	2.2	1.1	1.1
147.5°	1.1	2.2	2.2	1.1	1.1
150°	1.1	2.2	2.2	1.1	1.1
152.5°	2.2	2.2	2.2	1.1	1.1
155°	2.2	2.2	2.2	1.1	1.1
157.5°	2.2	2.2	2.2	1.1	1.1
160°	2.2	2.2	2.2	1.1	1.1
162.5°	2.2	3.3	2.2	1.1	1.1
165°	2.2	3.3	2.2	1.1	1.1
167.5°	2.2	3.3	2.2	1.1	1.1
170°	2.2	3.3	2.2	1.1	1.1
172.5°	2.2	3.3	2.2	1.1	1.1
175°	3.3	3.3	2.2	1.1	1.1
177.5°	3.3	3.3	2.2	2.2	2.2
180°	2.2	2.2	2.2	2.2	2.2

(END OF REPORT)