

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: P685848

Luminaire Tested: **8CZL-32-UNV-W-LVR-L835-CD-U**

Issue Date: 05/10/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P685848  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 05/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8CZL-32-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

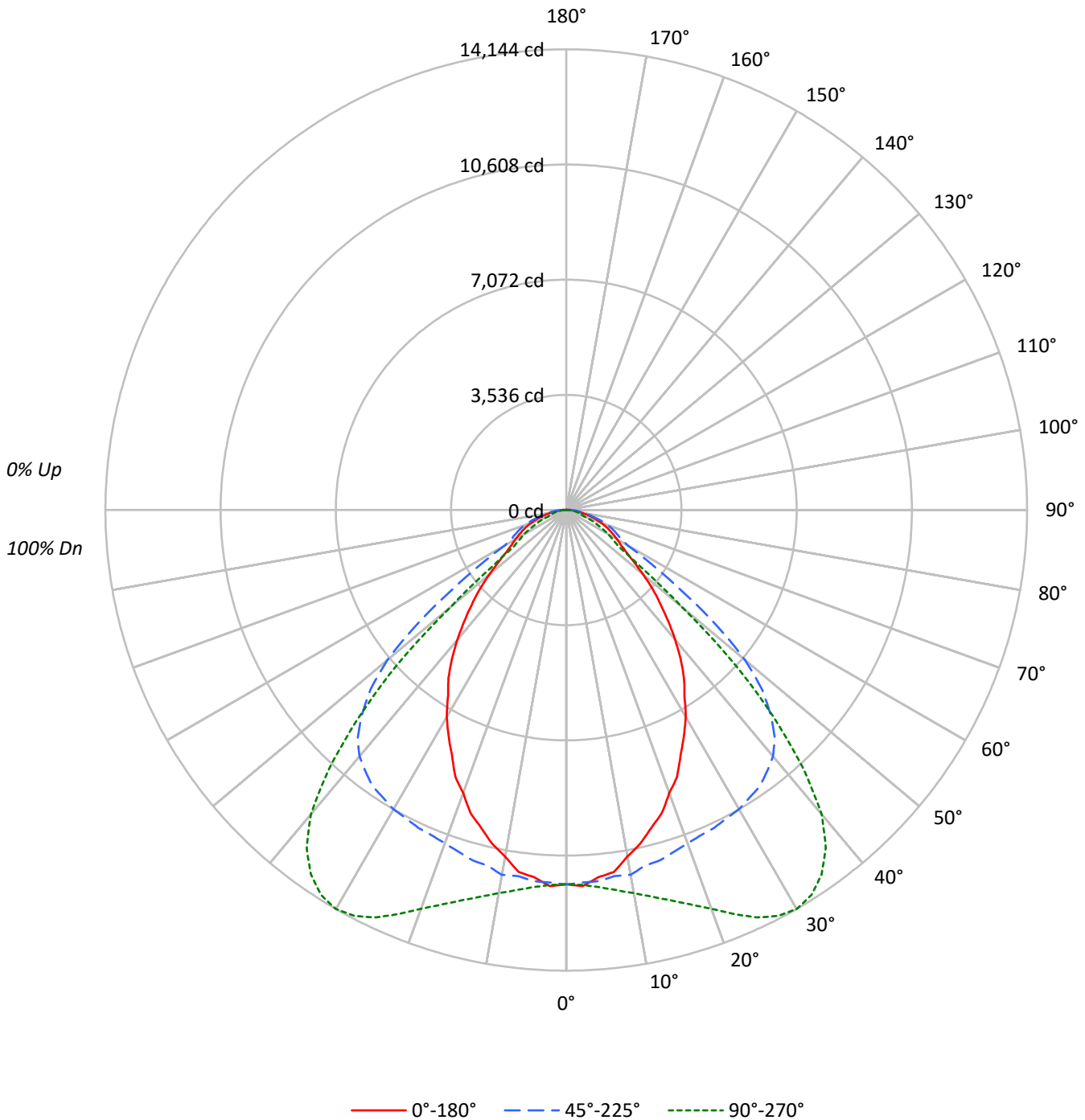
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27338.6 lumens  
Efficiency: N/A  
Efficacy: 132.7 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): 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	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	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	89	89	89	87
2	102	95	89	84	99	93	88	83	89	85	81	86	82	79	83	80	77	77	77	77	75
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	68	68	68	66
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	59	59	59	59	57
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	53	53	53	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	38	38	38	36
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	34	34	34	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	31	31	31	30

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	18553	18553	18553
5°	18341	18531	18835
10°	17708	18644	19584
15°	16875	18609	20736
20°	15884	18710	22382
25°	14789	19170	24582
30°	13672	19776	26369
35°	12422	20416	26922
40°	10952	20802	25686
45°	9335	20233	20592
50°	7737	17992	11685
55°	6302	12156	5590
60°	5818	7068	4828
65°	5609	6503	3925
70°	5293	6379	2805
75°	4926	5823	2726
80°	4491	5721	2994
85°	3444	6853	3303



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1092.6	4.0
10°-20°	3171.6	11.6
20°-30°	5033.2	18.4
30°-40°	6286.4	23.0
40°-50°	5773.8	21.1
50°-60°	3081.4	11.3
60°-70°	1585.9	5.8
70°-80°	872.0	3.2
80°-90°	359.7	1.3
90°-100°	69.4	0.3
100°-110°	3.8	0.0
110°-120°	0.9	0.0
120°-130°	1.2	0.0
130°-140°	2.1	0.0
140°-150°	1.8	0.0
150°-160°	1.4	0.0
160°-170°	1.0	0.0
170°-180°	0.4	0.0
0°-30°	9297.4	34.0
0°-40°	15583.8	57.0
0°-60°	24439.0	89.4
0°-90°	27256.6	99.7
90°-120°	74.1	0.3
90°-150°	79.2	0.3
90°-180°	82.0	0.3
0°-180°	27338.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11491	11491	11491	11491	11491	
5°	11316	11345	11433	11610	11621	1069
15°	10096	10425	11132	12039	12405	2839
25°	8301	9082	10761	12731	13799	3825
35°	6302	7466	10358	12618	13659	3912
45°	4088	5894	8861	9183	9018	3165
55°	2239	4014	4318	2419	1986	2067
65°	1468	1924	1702	1388	1027	1450
75°	790	876	934	830	437	838
85°	186	243	370	487	178	213
90°	0	69	182	295	38	7
95°	0	8	69	136	17	0
105°	0	2	2	2	0	0
115°	0	2	2	0	0	0
125°	0	2	2	0	0	1
135°	2	4	4	2	2	1
145°	2	4	4	2	2	1
155°	4	4	4	2	2	2
165°	4	6	4	2	2	1
175°	6	6	4	2	2	0
180°	4	4	4	4	4	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11490.9	11490.9	11490.9	11490.9	11490.9
2.5°	11558.0	11533.1	11450.6	11525.4	11519.6
5°	11316.5	11345.2	11433.4	11609.7	11621.2
7.5°	11209.1	11287.7	11337.5	11719.0	11768.8
10°	10800.9	10923.5	11372.0	11768.8	11945.2
12.5°	10494.2	10741.4	11176.5	11849.3	12156.0
15°	10095.5	10425.2	11132.5	12039.1	12405.2
17.5°	9756.2	10093.6	10998.3	12182.8	12694.6
20°	9244.5	9855.9	10889.0	12332.3	13026.2
22.5°	8878.4	9497.5	10804.7	12464.6	13419.1
25°	8301.4	9081.5	10760.6	12731.0	13798.6
27.5°	7818.4	8730.8	10662.9	12901.6	14049.7
30°	7333.5	8301.4	10607.3	12932.3	14143.7
32.5°	6748.9	7952.6	10467.3	12861.4	14009.5
35°	6302.3	7465.7	10358.1	12617.9	13658.7
37.5°	5757.9	7082.4	10118.5	12177.1	13083.7
40°	5196.3	6727.8	9869.3	11489.0	12186.7
42.5°	4628.9	6329.1	9470.6	10570.8	10783.6
45°	4088.4	5894.0	8861.1	9183.1	9018.3
47.5°	3603.5	5426.3	8140.4	7442.7	7055.5
50°	3080.2	4951.0	7162.9	5665.9	4651.9
52.5°	2608.7	4554.2	5817.3	3837.3	2894.3
55°	2238.8	4013.7	4318.4	2418.9	1985.7
57.5°	1976.2	3599.6	3116.6	1912.9	1700.2
60°	1801.7	3082.1	2188.9	1755.7	1495.1
62.5°	1629.2	2438.1	1872.7	1600.5	1257.4
65°	1468.2	1924.4	1702.1	1387.7	1027.4
67.5°	1301.5	1562.1	1537.2	1259.3	856.8
70°	1121.3	1284.2	1351.3	1054.2	594.2
72.5°	960.3	1077.2	1150.0	900.9	504.1
75°	789.7	876.0	933.5	830.0	437.0
77.5°	626.8	705.4	760.9	751.4	383.3
80°	483.0	534.8	615.3	672.8	322.0
82.5°	329.7	368.0	484.9	580.8	251.1
85°	185.9	243.4	369.9	486.9	178.3
87.5°	53.7	143.8	268.3	391.0	103.5
90°	0.0	69.0	182.1	295.2	38.3
92.5°	0.0	26.8	118.8	207.0	26.8
95°	0.0	7.7	69.0	136.1	17.3
97.5°	0.0	1.9	32.6	80.5	7.7
100°	0.0	1.9	11.5	38.3	1.9
102.5°	0.0	1.9	3.8	13.4	0.0
105°	0.0	1.9	1.9	1.9	0.0
107.5°	0.0	1.9	1.9	0.0	0.0
110°	0.0	1.9	1.9	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	1.9	1.9	0.0	0.0
115°	0.0	1.9	1.9	0.0	0.0
117.5°	0.0	1.9	1.9	0.0	0.0
120°	0.0	1.9	1.9	0.0	0.0
122.5°	0.0	1.9	1.9	0.0	0.0
125°	0.0	1.9	1.9	0.0	0.0
127.5°	1.9	1.9	1.9	1.9	0.0
130°	1.9	3.8	3.8	1.9	0.0
132.5°	1.9	3.8	3.8	1.9	0.0
135°	1.9	3.8	3.8	1.9	1.9
137.5°	1.9	3.8	3.8	1.9	1.9
140°	1.9	3.8	3.8	1.9	1.9
142.5°	1.9	3.8	3.8	1.9	1.9
145°	1.9	3.8	3.8	1.9	1.9
147.5°	1.9	3.8	3.8	1.9	1.9
150°	1.9	3.8	3.8	1.9	1.9
152.5°	3.8	3.8	3.8	1.9	1.9
155°	3.8	3.8	3.8	1.9	1.9
157.5°	3.8	3.8	3.8	1.9	1.9
160°	3.8	3.8	3.8	1.9	1.9
162.5°	3.8	5.8	3.8	1.9	1.9
165°	3.8	5.8	3.8	1.9	1.9
167.5°	3.8	5.8	3.8	1.9	1.9
170°	3.8	5.8	3.8	1.9	1.9
172.5°	3.8	5.8	3.8	1.9	1.9
175°	5.8	5.8	3.8	1.9	1.9
177.5°	5.8	5.8	3.8	3.8	3.8
180°	3.8	3.8	3.8	3.8	3.8

(END OF REPORT)