

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: P685864

Luminaire Tested: **8CZL-10-UNV-W-LVR-L850-CD-U**

Issue Date: 05/10/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P685864  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 05/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8CZL-10-UNV-W-LVR-L850-CD-U  
Description: METALUX CRUZE LINEAR 8FT LOUVER MODEL WITH WIDE LENS @80 CRI and 5000K  
Light Source: (784) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

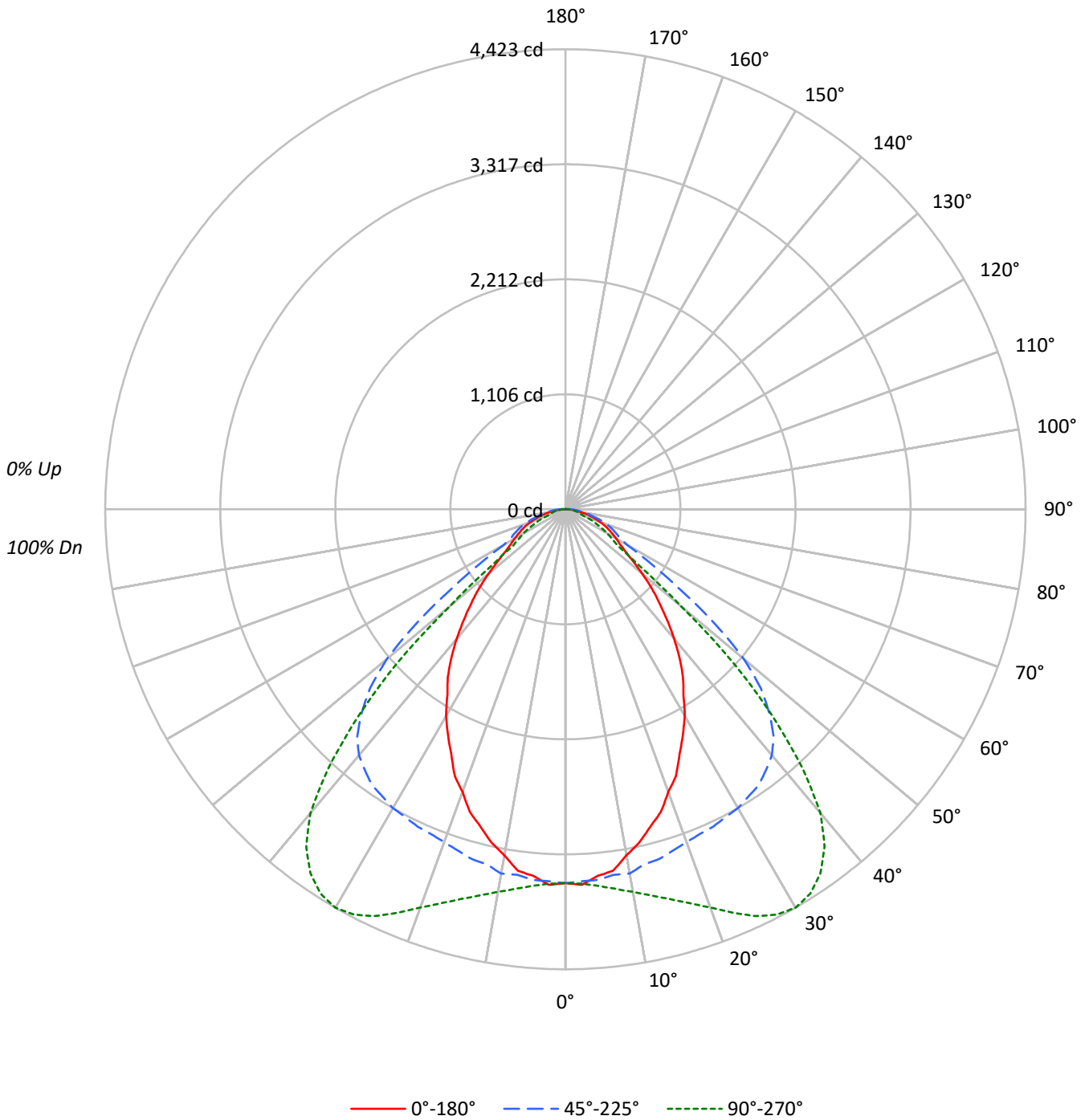
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8549.2 lumens  
Efficiency: N/A  
Efficacy: 135.7 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): 63  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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°	5802	5802	5802
5°	5736	5795	5890
10°	5538	5830	6124
15°	5277	5819	6484
20°	4967	5851	6999
25°	4625	5995	7687
30°	4276	6184	8246
35°	3885	6384	8419
40°	3425	6505	8032
45°	2919	6327	6440
50°	2419	5626	3654
55°	1971	3801	1748
60°	1819	2210	1510
65°	1754	2034	1228
70°	1655	1995	877
75°	1541	1821	853
80°	1404	1789	936
85°	1076	2143	1032



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	341.7	4.0
10°-20°	991.8	11.6
20°-30°	1574.0	18.4
30°-40°	1965.8	23.0
40°-50°	1805.6	21.1
50°-60°	963.6	11.3
60°-70°	495.9	5.8
70°-80°	272.7	3.2
80°-90°	112.5	1.3
90°-100°	21.7	0.3
100°-110°	1.2	0.0
110°-120°	0.3	0.0
120°-130°	0.4	0.0
130°-140°	0.7	0.0
140°-150°	0.6	0.0
150°-160°	0.4	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	2907.4	34.0
0°-40°	4873.3	57.0
0°-60°	7642.4	89.4
0°-90°	8523.5	99.7
90°-120°	23.2	0.3
90°-150°	24.8	0.3
90°-180°	26.0	0.3
0°-180°	8549.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3593	3593	3593	3593	3593	
5°	3539	3548	3575	3630	3634	334
15°	3157	3260	3481	3765	3879	888
25°	2596	2840	3365	3981	4315	1196
35°	1971	2335	3239	3946	4271	1223
45°	1278	1843	2771	2872	2820	990
55°	700	1255	1350	756	621	646
65°	459	602	532	434	321	453
75°	247	274	292	260	137	262
85°	58	76	116	152	56	67
90°	0	22	57	92	12	2
95°	0	2	22	43	5	0
105°	0	1	1	1	0	0
115°	0	1	1	0	0	0
125°	0	1	1	0	0	0
135°	1	1	1	1	1	0
145°	1	1	1	1	1	0
155°	1	1	1	1	1	1
165°	1	2	1	1	1	0
175°	2	2	1	1	1	0
180°	1	1	1	1	1	



TEST NUMBER: P685864

CATALOG NUMBER: 8CZL-10-UNV-W-LVR-L850-CD-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3593.4	3593.4	3593.4	3593.4	3593.4
2.5°	3614.3	3606.6	3580.8	3604.2	3602.4
5°	3538.8	3547.8	3575.4	3630.5	3634.1
7.5°	3505.3	3529.8	3545.4	3664.7	3680.3
10°	3377.6	3415.9	3556.2	3680.3	3735.4
12.5°	3281.7	3359.0	3495.1	3705.5	3801.4
15°	3157.0	3260.1	3481.3	3764.8	3879.3
17.5°	3050.9	3156.4	3439.3	3809.7	3969.8
20°	2890.9	3082.1	3405.2	3856.5	4073.5
22.5°	2776.4	2970.0	3378.8	3897.9	4196.4
25°	2596.0	2839.9	3365.0	3981.2	4315.0
27.5°	2444.9	2730.2	3334.4	4034.5	4393.6
30°	2293.3	2596.0	3317.0	4044.1	4422.9
32.5°	2110.5	2486.9	3273.3	4021.9	4381.0
35°	1970.8	2334.6	3239.1	3945.8	4271.3
37.5°	1800.6	2214.8	3164.2	3808.0	4091.5
40°	1625.0	2103.9	3086.3	3592.8	3810.9
42.5°	1447.5	1979.2	2961.6	3305.7	3372.2
45°	1278.5	1843.1	2771.0	2871.7	2820.2
47.5°	1126.9	1696.9	2545.6	2327.4	2206.4
50°	963.2	1548.2	2239.9	1771.8	1454.7
52.5°	815.8	1424.2	1819.2	1200.0	905.1
55°	700.1	1255.1	1350.4	756.4	621.0
57.5°	618.0	1125.7	974.6	598.2	531.7
60°	563.4	963.8	684.5	549.0	467.5
62.5°	509.5	762.4	585.6	500.5	393.2
65°	459.1	601.8	532.3	434.0	321.3
67.5°	407.0	488.5	480.7	393.8	267.9
70°	350.6	401.6	422.6	329.7	185.8
72.5°	300.3	336.9	359.6	281.7	157.6
75°	247.0	273.9	291.9	259.5	136.7
77.5°	196.0	220.6	238.0	235.0	119.9
80°	151.0	167.2	192.4	210.4	100.7
82.5°	103.1	115.1	151.6	181.6	78.5
85°	58.1	76.1	115.7	152.2	55.7
87.5°	16.8	45.0	83.9	122.3	32.4
90°	0.0	21.6	56.9	92.3	12.0
92.5°	0.0	8.4	37.2	64.7	8.4
95°	0.0	2.4	21.6	42.6	5.4
97.5°	0.0	0.6	10.2	25.2	2.4
100°	0.0	0.6	3.6	12.0	0.6
102.5°	0.0	0.6	1.2	4.2	0.0
105°	0.0	0.6	0.6	0.6	0.0
107.5°	0.0	0.6	0.6	0.0	0.0
110°	0.0	0.6	0.6	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.6	0.6	0.0	0.0
115°	0.0	0.6	0.6	0.0	0.0
117.5°	0.0	0.6	0.6	0.0	0.0
120°	0.0	0.6	0.6	0.0	0.0
122.5°	0.0	0.6	0.6	0.0	0.0
125°	0.0	0.6	0.6	0.0	0.0
127.5°	0.6	0.6	0.6	0.6	0.0
130°	0.6	1.2	1.2	0.6	0.0
132.5°	0.6	1.2	1.2	0.6	0.0
135°	0.6	1.2	1.2	0.6	0.6
137.5°	0.6	1.2	1.2	0.6	0.6
140°	0.6	1.2	1.2	0.6	0.6
142.5°	0.6	1.2	1.2	0.6	0.6
145°	0.6	1.2	1.2	0.6	0.6
147.5°	0.6	1.2	1.2	0.6	0.6
150°	0.6	1.2	1.2	0.6	0.6
152.5°	1.2	1.2	1.2	0.6	0.6
155°	1.2	1.2	1.2	0.6	0.6
157.5°	1.2	1.2	1.2	0.6	0.6
160°	1.2	1.2	1.2	0.6	0.6
162.5°	1.2	1.8	1.2	0.6	0.6
165°	1.2	1.8	1.2	0.6	0.6
167.5°	1.2	1.8	1.2	0.6	0.6
170°	1.2	1.8	1.2	0.6	0.6
172.5°	1.2	1.8	1.2	0.6	0.6
175°	1.8	1.8	1.2	0.6	0.6
177.5°	1.8	1.8	1.2	1.2	1.2
180°	1.2	1.2	1.2	1.2	1.2

(END OF REPORT)