

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: P685894

Luminaire Tested: **8CZL-10-UNV-W-LVR-L950-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685894
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-L950-CD-U
Description: METALUX CRUZE LINEAR 8FT LOUVER MODEL WITH WIDE LENS @90 CRI and 5000K
Light Source: (784) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

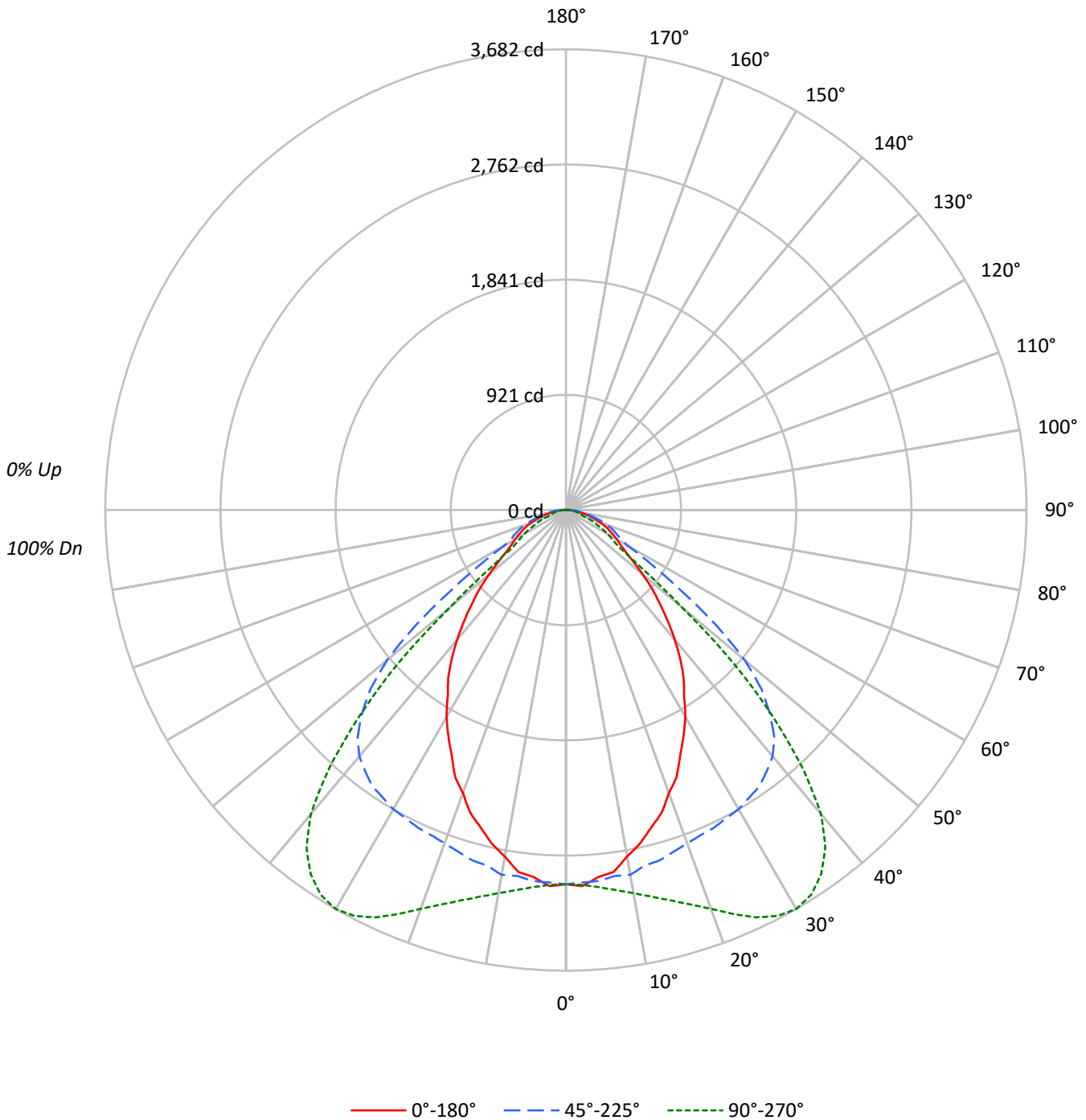
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7116.4 lumens
Efficiency: N/A
Efficacy: 113.0 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): 63
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	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°	4829	4829	4829
5°	4774	4824	4903
10°	4609	4853	5098
15°	4393	4844	5398
20°	4135	4870	5826
25°	3850	4990	6399
30°	3559	5148	6864
35°	3234	5315	7008
40°	2851	5415	6686
45°	2430	5267	5360
50°	2014	4683	3042
55°	1641	3164	1455
60°	1514	1840	1257
65°	1460	1693	1022
70°	1378	1661	730
75°	1283	1516	710
80°	1169	1490	779
85°	897	1784	860



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.4	4.0
10°-20°	825.6	11.6
20°-30°	1310.2	18.4
30°-40°	1636.4	23.0
40°-50°	1503.0	21.1
50°-60°	802.1	11.3
60°-70°	412.8	5.8
70°-80°	227.0	3.2
80°-90°	93.6	1.3
90°-100°	18.1	0.3
100°-110°	1.0	0.0
110°-120°	0.2	0.0
120°-130°	0.3	0.0
130°-140°	0.6	0.0
140°-150°	0.5	0.0
150°-160°	0.4	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	2420.2	34.0
0°-40°	4056.5	57.0
0°-60°	6361.6	89.4
0°-90°	7095.1	99.7
90°-120°	19.3	0.3
90°-150°	20.7	0.3
90°-180°	21.0	0.3
0°-180°	7116.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2991	2991	2991	2991	2991	
5°	2946	2953	2976	3022	3025	278
15°	2628	2714	2898	3134	3229	739
25°	2161	2364	2801	3314	3592	996
35°	1640	1943	2696	3284	3555	1018
45°	1064	1534	2307	2390	2348	824
55°	583	1045	1124	630	517	538
65°	382	501	443	361	267	377
75°	206	228	243	216	114	218
85°	48	63	96	127	46	55
90°	0	18	47	77	10	2
95°	0	2	18	35	4	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	1	1	0	0	0
145°	0	1	1	0	0	0
155°	1	1	1	0	0	0
165°	1	2	1	0	0	0
175°	2	2	1	0	0	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2991.1	2991.1	2991.1	2991.1	2991.1
2.5°	3008.6	3002.1	2980.7	3000.1	2998.6
5°	2945.7	2953.2	2976.2	3022.1	3025.1
7.5°	2917.8	2938.2	2951.2	3050.5	3063.5
10°	2811.5	2843.4	2960.2	3063.5	3109.4
12.5°	2731.7	2796.0	2909.3	3084.4	3164.3
15°	2627.9	2713.7	2897.8	3133.8	3229.1
17.5°	2539.6	2627.4	2862.9	3171.3	3304.5
20°	2406.4	2565.5	2834.5	3210.2	3390.8
22.5°	2311.1	2472.2	2812.5	3244.6	3493.1
25°	2160.9	2364.0	2801.0	3313.9	3591.9
27.5°	2035.2	2272.7	2775.6	3358.4	3657.2
30°	1908.9	2160.9	2761.1	3366.3	3681.7
32.5°	1756.8	2070.1	2724.7	3347.9	3646.7
35°	1640.5	1943.4	2696.3	3284.5	3555.4
37.5°	1498.8	1843.6	2633.9	3169.8	3405.8
40°	1352.6	1751.3	2569.0	2990.6	3172.2
42.5°	1204.9	1647.5	2465.3	2751.6	2807.0
45°	1064.2	1534.2	2306.6	2390.4	2347.5
47.5°	938.0	1412.5	2119.0	1937.4	1836.6
50°	801.8	1288.8	1864.5	1474.9	1210.9
52.5°	679.1	1185.5	1514.3	998.9	753.4
55°	582.8	1044.8	1124.1	629.7	516.9
57.5°	514.4	937.0	811.3	497.9	442.6
60°	469.0	802.3	569.8	457.0	389.2
62.5°	424.1	634.6	487.5	416.6	327.3
65°	382.2	500.9	443.1	361.2	267.4
67.5°	338.8	406.6	400.1	327.8	223.0
70°	291.9	334.3	351.8	274.4	154.7
72.5°	250.0	280.4	299.4	234.5	131.2
75°	205.6	228.0	243.0	216.0	113.8
77.5°	163.2	183.6	198.1	195.6	99.8
80°	125.7	139.2	160.2	175.1	83.8
82.5°	85.8	95.8	126.2	151.2	65.4
85°	48.4	63.4	96.3	126.7	46.4
87.5°	14.0	37.4	69.9	101.8	26.9
90°	0.0	18.0	47.4	76.8	10.0
92.5°	0.0	7.0	30.9	53.9	7.0
95°	0.0	2.0	18.0	35.4	4.5
97.5°	0.0	0.5	8.5	21.0	2.0
100°	0.0	0.5	3.0	10.0	0.5
102.5°	0.0	0.5	1.0	3.5	0.0
105°	0.0	0.5	0.5	0.5	0.0
107.5°	0.0	0.5	0.5	0.0	0.0
110°	0.0	0.5	0.5	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.5	0.5	0.0	0.0
115°	0.0	0.5	0.5	0.0	0.0
117.5°	0.0	0.5	0.5	0.0	0.0
120°	0.0	0.5	0.5	0.0	0.0
122.5°	0.0	0.5	0.5	0.0	0.0
125°	0.0	0.5	0.5	0.0	0.0
127.5°	0.5	0.5	0.5	0.5	0.0
130°	0.5	1.0	1.0	0.5	0.0
132.5°	0.5	1.0	1.0	0.5	0.0
135°	0.5	1.0	1.0	0.5	0.5
137.5°	0.5	1.0	1.0	0.5	0.5
140°	0.5	1.0	1.0	0.5	0.5
142.5°	0.5	1.0	1.0	0.5	0.5
145°	0.5	1.0	1.0	0.5	0.5
147.5°	0.5	1.0	1.0	0.5	0.5
150°	0.5	1.0	1.0	0.5	0.5
152.5°	1.0	1.0	1.0	0.5	0.5
155°	1.0	1.0	1.0	0.5	0.5
157.5°	1.0	1.0	1.0	0.5	0.5
160°	1.0	1.0	1.0	0.5	0.5
162.5°	1.0	1.5	1.0	0.5	0.5
165°	1.0	1.5	1.0	0.5	0.5
167.5°	1.0	1.5	1.0	0.5	0.5
170°	1.0	1.5	1.0	0.5	0.5
172.5°	1.0	1.5	1.0	0.5	0.5
175°	1.5	1.5	1.0	0.5	0.5
177.5°	1.5	1.5	1.0	1.0	1.0
180°	1.0	1.0	1.0	1.0	1.0

(END OF REPORT)