

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: P685775

Luminaire Tested: **8CZL-14-UNV-N-LVR-L950-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685775
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-14-UNV-N-LVR-L950-CD-U
Description: METALUX CRUZE LINEAR 8FT LOUVER MODEL WITH NARROW LENS @90 CRI and 5000K
Light Source: (784) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

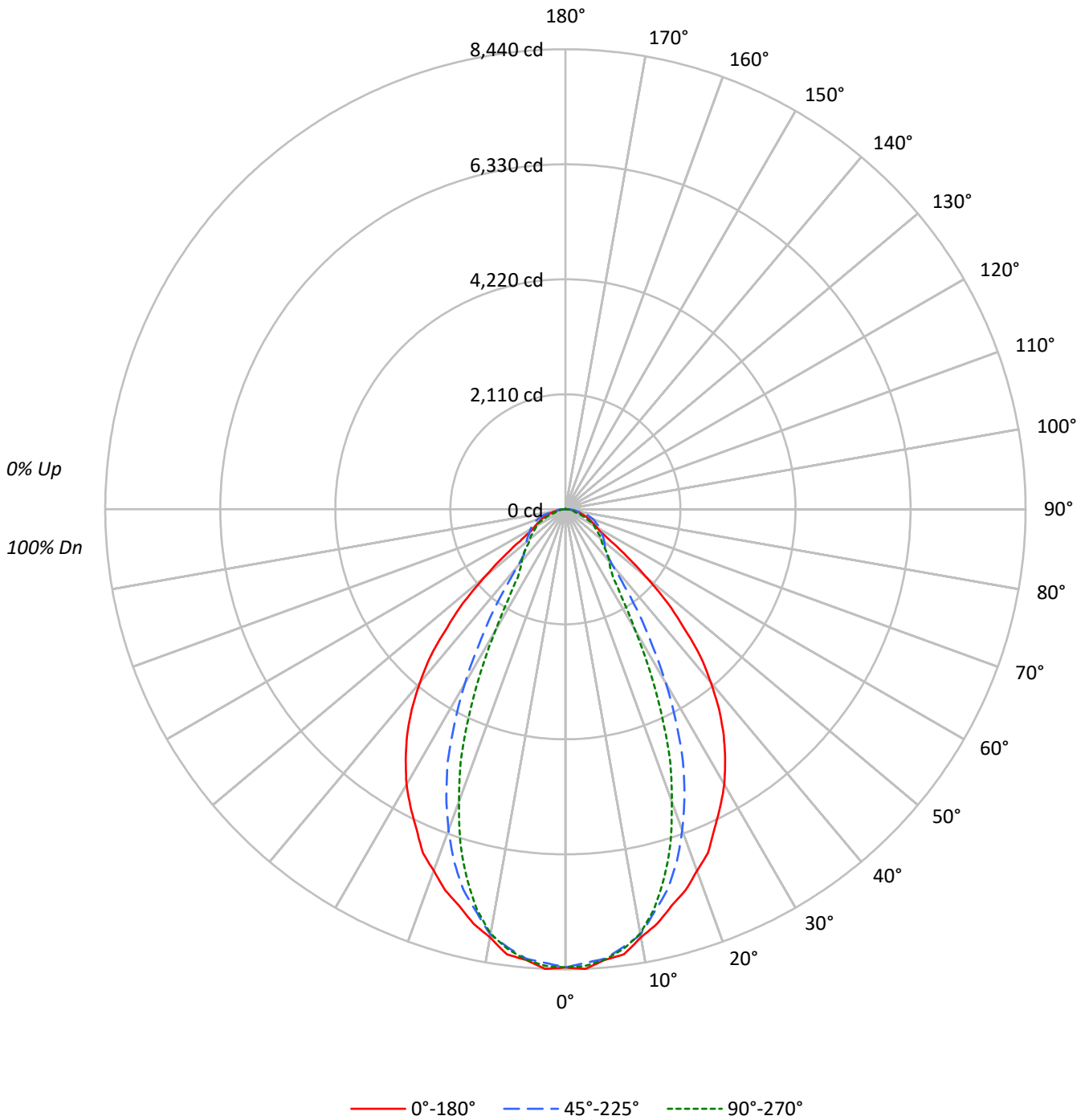
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9950.3 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 0.8 / 0.85
Luminous Opening: Rectangular (W 0.83' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 89
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	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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	90	90	90	88
2	103	97	92	87	101	95	90	86	92	88	84	88	85	82	86	83	80	80	80	80	78
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	72	72	72	70
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	65	65	65	63
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	59	59	59	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	55	55	55	53
7	75	64	57	51	73	63	56	51	62	55	51	60	55	51	59	54	50	50	50	50	49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	47	47	47	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	43	43	43	43	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	41	41	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13569	13569	13569
5°	13449	13411	13446
10°	13070	12990	12958
15°	12585	12083	11700
20°	12122	10764	9798
25°	11519	9089	7471
30°	10866	6875	4774
35°	9973	4661	2999
40°	8747	2839	2631
45°	7007	2366	2358
50°	4845	2338	2128
55°	2854	2317	2004
60°	2127	2407	1980
65°	2013	2424	1741
70°	1936	2585	1314
75°	1825	2594	1124
80°	1695	2152	1271
85°	1504	2612	1569



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	780.7	7.8
10°-20°	2021.4	20.3
20°-30°	2361.5	23.7
30°-40°	1752.0	17.6
40°-50°	1161.4	11.7
50°-60°	770.3	7.7
60°-70°	574.7	5.8
70°-80°	339.2	3.4
80°-90°	142.8	1.4
90°-100°	30.9	0.3
100°-110°	4.2	0.0
110°-120°	2.1	0.0
120°-130°	1.9	0.0
130°-140°	1.8	0.0
140°-150°	1.9	0.0
150°-160°	1.7	0.0
160°-170°	1.3	0.0
170°-180°	0.5	0.0
0°-30°	5163.6	51.9
0°-40°	6915.6	69.5
0°-60°	8847.3	88.9
0°-90°	9904.1	99.5
90°-120°	37.1	0.4
90°-150°	42.8	0.4
90°-180°	46.0	0.5
0°-180°	9950.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8404	8404	8404	8404	8404	
5°	8298	8291	8275	8304	8296	785
15°	7529	7439	7229	7104	6999	2124
25°	6466	6001	5102	4376	4194	2978
35°	5060	3749	2365	1598	1522	3141
45°	3069	1811	1036	1075	1032	2362
55°	1014	891	823	795	712	998
65°	527	589	634	620	456	525
75°	293	328	416	302	180	309
85°	81	99	141	187	85	88
90°	1	30	70	121	25	5
95°	1	5	28	60	13	1
105°	1	1	3	5	4	1
115°	1	1	2	3	3	1
125°	1	1	2	3	3	1
135°	1	2	2	3	3	1
145°	2	3	3	4	4	1
155°	3	4	4	4	4	1
165°	4	4	4	5	5	1
175°	4	4	5	6	6	0
180°	5	5	5	5	5	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8404.2	8404.2	8404.2	8404.2	8404.2
2.5°	8440.5	8394.9	8329.4	8388.5	8383.6
5°	8298.1	8291.0	8274.6	8304.5	8296.0
7.5°	8234.0	8195.6	8104.4	8174.9	8135.1
10°	7972.0	7927.1	7922.9	7908.6	7903.6
12.5°	7786.2	7732.0	7559.0	7549.8	7511.3
15°	7529.1	7439.4	7228.6	7104.0	6999.3
17.5°	7329.7	7134.6	6782.9	6550.8	6416.2
20°	7054.9	6839.9	6264.5	5859.4	5702.7
22.5°	6828.5	6447.5	5707.7	5134.5	5027.0
25°	6466.0	6001.1	5101.8	4376.2	4193.9
27.5°	6151.3	5509.8	4386.9	3590.8	3367.2
30°	5828.0	4959.4	3687.7	2820.4	2560.5
32.5°	5451.4	4404.7	2967.8	2116.2	1928.2
35°	5059.8	3748.9	2364.7	1598.5	1521.6
37.5°	4628.3	3159.3	1777.3	1335.1	1347.9
40°	4149.8	2645.2	1347.2	1224.0	1248.2
42.5°	3672.7	2212.3	1120.8	1151.4	1158.5
45°	3068.9	1810.7	1036.0	1075.2	1032.5
47.5°	2541.3	1479.6	976.2	971.9	911.4
50°	1928.9	1206.2	930.6	879.4	847.3
52.5°	1428.4	1017.5	887.2	831.0	798.2
55°	1013.9	890.8	823.1	794.6	712.0
57.5°	761.9	801.0	774.0	709.9	652.2
60°	658.6	722.0	745.5	669.3	613.1
62.5°	594.6	654.4	699.2	645.1	561.1
65°	526.9	588.9	634.4	620.2	455.7
67.5°	467.8	536.9	593.1	531.9	372.4
70°	410.1	474.2	547.6	451.4	278.4
72.5°	348.2	396.6	484.9	351.0	202.9
75°	292.6	327.5	415.8	301.9	180.1
77.5°	234.3	263.5	284.8	274.8	158.8
80°	182.3	211.5	231.4	249.9	136.7
82.5°	132.4	151.7	183.7	221.4	113.9
85°	81.2	99.0	141.0	187.3	84.7
87.5°	34.9	60.5	103.2	155.2	55.5
90°	1.4	29.9	70.5	121.0	24.9
92.5°	0.7	12.8	45.6	89.0	16.4
95°	0.7	5.0	27.8	60.5	12.8
97.5°	0.7	2.1	14.2	39.2	9.3
100°	0.7	1.4	7.8	22.8	6.4
102.5°	0.7	1.4	3.6	11.4	5.0
105°	0.7	1.4	2.8	5.0	4.3
107.5°	0.7	1.4	2.1	3.6	3.6
110°	0.7	1.4	2.1	3.6	3.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	1.4	2.1	3.6	3.6
115°	0.7	1.4	2.1	2.8	2.8
117.5°	0.7	1.4	2.1	2.8	2.8
120°	0.7	1.4	2.1	2.8	2.8
122.5°	0.7	1.4	2.1	2.8	2.8
125°	1.4	1.4	2.1	2.8	2.8
127.5°	1.4	2.1	2.1	2.8	2.8
130°	1.4	2.1	2.1	2.8	2.8
132.5°	1.4	2.1	2.1	2.8	2.8
135°	1.4	2.1	2.1	2.8	2.8
137.5°	1.4	2.1	2.8	2.8	2.8
140°	2.1	2.8	2.8	2.8	2.8
142.5°	2.1	2.8	2.8	3.6	2.8
145°	2.1	2.8	2.8	3.6	3.6
147.5°	2.1	2.8	3.6	3.6	3.6
150°	2.1	2.8	3.6	4.3	4.3
152.5°	2.8	2.8	3.6	4.3	4.3
155°	2.8	3.6	3.6	4.3	4.3
157.5°	2.8	3.6	3.6	4.3	5.0
160°	2.8	3.6	4.3	5.0	5.0
162.5°	2.8	3.6	4.3	5.0	5.0
165°	3.6	4.3	4.3	5.0	5.0
167.5°	3.6	4.3	5.0	5.0	5.7
170°	3.6	4.3	5.0	5.7	5.7
172.5°	3.6	4.3	5.0	5.7	5.7
175°	3.6	4.3	5.0	5.7	6.4
177.5°	3.6	4.3	5.0	5.7	6.4
180°	5.0	5.0	5.0	5.0	5.0

(END OF REPORT)