

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: P685897

Luminaire Tested: **8CZL-24-UNV-W-LVR-L950-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685897
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-24-UNV-W-LVR-L950-CD-U
Description: METALUX CRUZE LINEAR 8FT LOUVER MODEL WITH WIDE LENS @90 CRI and 5000K
Light Source: (1176) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

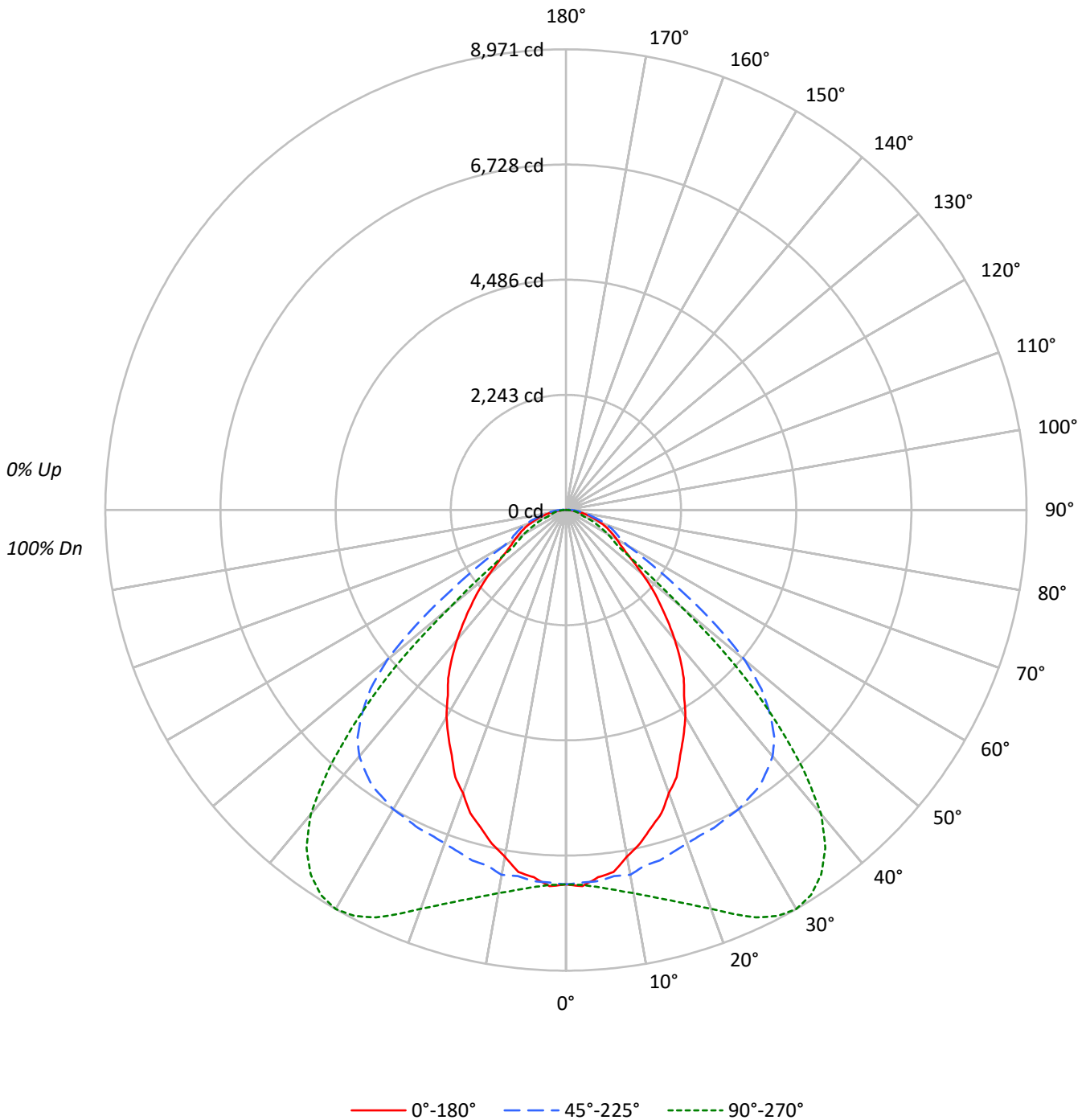
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17340.9 lumens
Efficiency: N/A
Efficacy: 112.6 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): 154
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	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°	11768	11768	11768
5°	11634	11754	11947
10°	11232	11826	12422
15°	10704	11803	13153
20°	10075	11868	14197
25°	9381	12160	15593
30°	8672	12544	16726
35°	7879	12950	17077
40°	6947	13194	16293
45°	5921	12834	13062
50°	4908	11412	7412
55°	3997	7711	3546
60°	3690	4483	3062
65°	3558	4125	2490
70°	3357	4046	1779
75°	3125	3694	1729
80°	2849	3629	1900
85°	2184	4346	2095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	693.0	4.0
10°-20°	2011.8	11.6
20°-30°	3192.6	18.4
30°-40°	3987.4	23.0
40°-50°	3662.3	21.1
50°-60°	1954.5	11.3
60°-70°	1005.9	5.8
70°-80°	553.1	3.2
80°-90°	228.2	1.3
90°-100°	44.0	0.3
100°-110°	2.4	0.0
110°-120°	0.6	0.0
120°-130°	0.7	0.0
130°-140°	1.3	0.0
140°-150°	1.1	0.0
150°-160°	0.9	0.0
160°-170°	0.6	0.0
170°-180°	0.2	0.0
0°-30°	5897.4	34.0
0°-40°	9884.8	57.0
0°-60°	15501.6	89.4
0°-90°	17288.9	99.7
90°-120°	47.0	0.3
90°-150°	50.3	0.3
90°-180°	52.0	0.3
0°-180°	17340.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7289	7289	7289	7289	7289	
5°	7178	7196	7252	7364	7371	678
15°	6404	6613	7061	7636	7869	1801
25°	5266	5760	6826	8075	8752	2426
35°	3998	4736	6570	8004	8664	2482
45°	2593	3739	5621	5825	5720	2007
55°	1420	2546	2739	1534	1260	1311
65°	931	1221	1080	880	652	920
75°	501	556	592	526	277	532
85°	118	154	235	309	113	135
90°	0	44	116	187	24	5
95°	0	5	44	86	11	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	4	2	1	1	1
175°	4	4	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°	7288.7	7288.7	7288.7	7288.7	7288.7
2.5°	7331.2	7315.4	7263.1	7310.6	7306.9
5°	7178.0	7196.3	7252.2	7364.1	7371.3
7.5°	7110.0	7159.8	7191.4	7433.4	7465.0
10°	6851.0	6928.8	7213.3	7465.0	7576.8
12.5°	6656.5	6813.3	7089.3	7516.0	7710.6
15°	6403.6	6612.7	7061.3	7636.4	7868.6
17.5°	6188.4	6402.4	6976.2	7727.6	8052.2
20°	5863.8	6251.6	6906.9	7822.4	8262.5
22.5°	5631.5	6024.2	6853.4	7906.3	8511.8
25°	5265.6	5760.4	6825.5	8075.3	8752.5
27.5°	4959.2	5537.9	6763.4	8183.5	8911.8
30°	4651.6	5265.6	6728.2	8202.9	8971.3
32.5°	4280.8	5044.3	6639.4	8158.0	8886.2
35°	3997.5	4735.5	6570.1	8003.6	8663.7
37.5°	3652.2	4492.4	6418.2	7723.9	8299.0
40°	3296.0	4267.4	6260.1	7287.5	7730.0
42.5°	2936.1	4014.5	6007.2	6705.1	6840.0
45°	2593.3	3738.6	5620.6	5824.9	5720.3
47.5°	2285.7	3441.9	5163.5	4720.9	4475.3
50°	1953.8	3140.4	4543.4	3593.9	2950.7
52.5°	1654.7	2888.7	3689.9	2434.0	1835.8
55°	1420.0	2545.9	2739.2	1534.3	1259.6
57.5°	1253.5	2283.3	1976.9	1213.4	1078.4
60°	1142.8	1955.0	1388.4	1113.7	948.3
62.5°	1033.4	1546.5	1187.8	1015.2	797.6
65°	931.3	1220.7	1079.6	880.2	651.7
67.5°	825.5	990.9	975.1	798.8	543.5
70°	711.2	814.6	857.1	668.7	376.9
72.5°	609.1	683.3	729.5	571.4	319.8
75°	500.9	555.6	592.1	526.4	277.2
77.5°	397.6	447.4	482.7	476.6	243.2
80°	306.4	339.2	390.3	426.7	204.3
82.5°	209.1	233.4	307.6	368.4	159.3
85°	117.9	154.4	234.6	308.8	113.1
87.5°	34.0	91.2	170.2	248.0	65.7
90°	0.0	43.8	115.5	187.2	24.3
92.5°	0.0	17.0	75.4	131.3	17.0
95°	0.0	4.9	43.8	86.3	10.9
97.5°	0.0	1.2	20.7	51.1	4.9
100°	0.0	1.2	7.3	24.3	1.2
102.5°	0.0	1.2	2.4	8.5	0.0
105°	0.0	1.2	1.2	1.2	0.0
107.5°	0.0	1.2	1.2	0.0	0.0
110°	0.0	1.2	1.2	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	1.2	1.2	0.0	0.0
115°	0.0	1.2	1.2	0.0	0.0
117.5°	0.0	1.2	1.2	0.0	0.0
120°	0.0	1.2	1.2	0.0	0.0
122.5°	0.0	1.2	1.2	0.0	0.0
125°	0.0	1.2	1.2	0.0	0.0
127.5°	1.2	1.2	1.2	1.2	0.0
130°	1.2	2.4	2.4	1.2	0.0
132.5°	1.2	2.4	2.4	1.2	0.0
135°	1.2	2.4	2.4	1.2	1.2
137.5°	1.2	2.4	2.4	1.2	1.2
140°	1.2	2.4	2.4	1.2	1.2
142.5°	1.2	2.4	2.4	1.2	1.2
145°	1.2	2.4	2.4	1.2	1.2
147.5°	1.2	2.4	2.4	1.2	1.2
150°	1.2	2.4	2.4	1.2	1.2
152.5°	2.4	2.4	2.4	1.2	1.2
155°	2.4	2.4	2.4	1.2	1.2
157.5°	2.4	2.4	2.4	1.2	1.2
160°	2.4	2.4	2.4	1.2	1.2
162.5°	2.4	3.6	2.4	1.2	1.2
165°	2.4	3.6	2.4	1.2	1.2
167.5°	2.4	3.6	2.4	1.2	1.2
170°	2.4	3.6	2.4	1.2	1.2
172.5°	2.4	3.6	2.4	1.2	1.2
175°	3.6	3.6	2.4	1.2	1.2
177.5°	3.6	3.6	2.4	2.4	2.4
180°	2.4	2.4	2.4	2.4	2.4

(END OF REPORT)