

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: P685867

Luminaire Tested: **8CZL-24-UNV-W-LVR-L850-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685867
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-L850-CD-U
Description: METALUX CRUZE LINEAR 8FT LOUVER MODEL WITH WIDE LENS @80 CRI and 5000K
Light Source: (1176) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

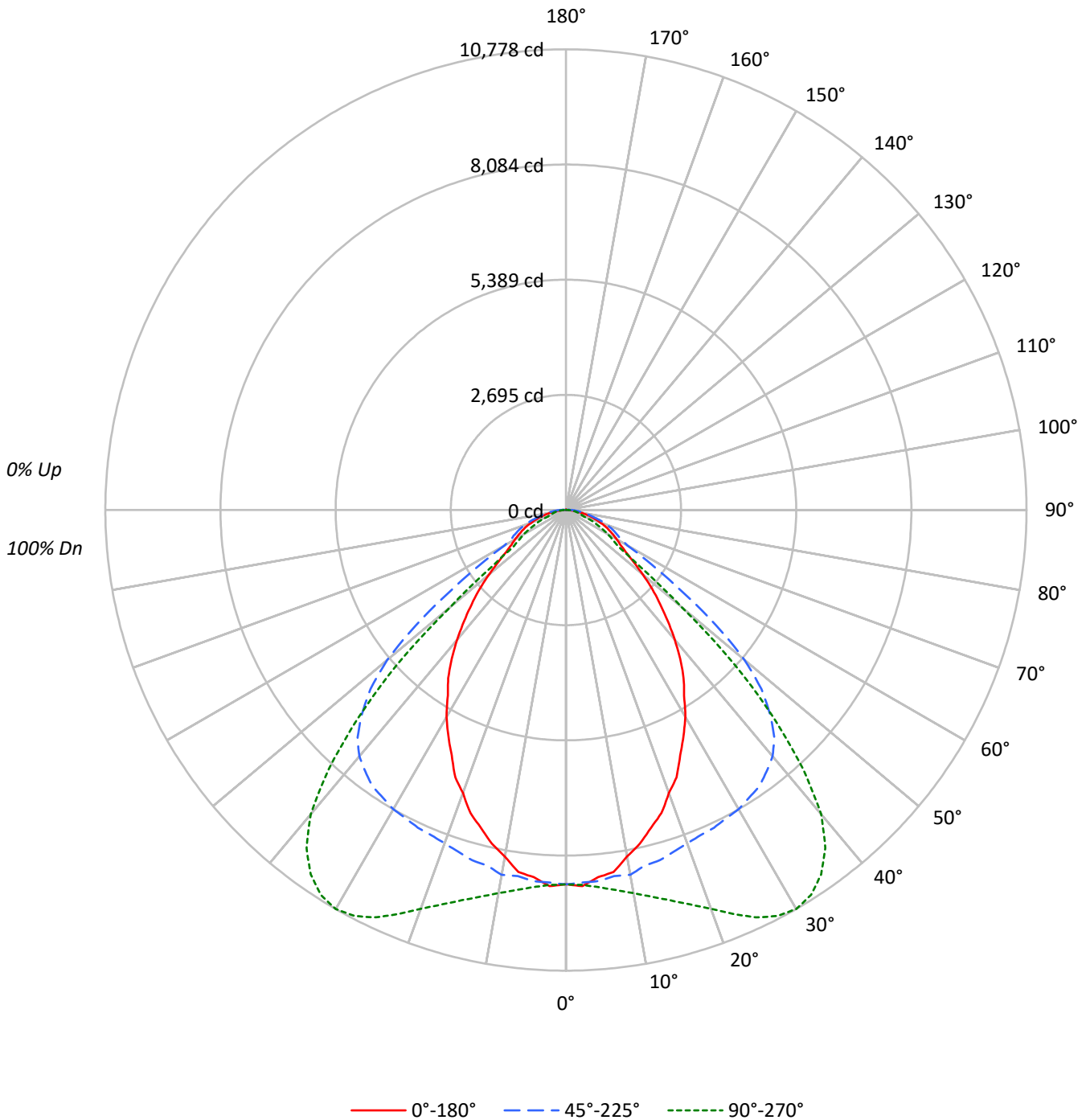
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20832.5 lumens
Efficiency: N/A
Efficacy: 135.3 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 (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°	14138	14138	14138
5°	13976	14121	14353
10°	13494	14207	14923
15°	12859	14180	15801
20°	12104	14257	17055
25°	11269	14608	18732
30°	10418	15069	20093
35°	9466	15558	20515
40°	8346	15851	19573
45°	7114	15418	15691
50°	5896	13710	8904
55°	4802	9263	4260
60°	4433	5386	3679
65°	4274	4955	2991
70°	4033	4861	2138
75°	3754	4437	2077
80°	3423	4359	2282
85°	2625	5222	2516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	832.6	4.0
10°-20°	2416.8	11.6
20°-30°	3835.4	18.4
30°-40°	4790.3	23.0
40°-50°	4399.7	21.1
50°-60°	2348.1	11.3
60°-70°	1208.5	5.8
70°-80°	664.5	3.2
80°-90°	274.1	1.3
90°-100°	52.9	0.3
100°-110°	2.9	0.0
110°-120°	0.7	0.0
120°-130°	0.9	0.0
130°-140°	1.6	0.0
140°-150°	1.4	0.0
150°-160°	1.1	0.0
160°-170°	0.8	0.0
170°-180°	0.3	0.0
0°-30°	7084.7	34.0
0°-40°	11875.0	57.0
0°-60°	18622.8	89.4
0°-90°	20769.8	99.7
90°-120°	56.5	0.3
90°-150°	60.5	0.3
90°-180°	63.0	0.3
0°-180°	20832.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8756	8756	8756	8756	8756	
5°	8623	8645	8712	8847	8856	815
15°	7693	7944	8483	9174	9453	2163
25°	6326	6920	8200	9701	10515	2915
35°	4802	5689	7893	9615	10408	2981
45°	3115	4491	6752	6998	6872	2411
55°	1706	3058	3291	1843	1513	1575
65°	1119	1466	1297	1058	783	1105
75°	602	668	711	632	333	639
85°	142	186	282	371	136	162
90°	0	53	139	225	29	6
95°	0	6	53	104	13	0
105°	0	2	2	2	0	0
115°	0	2	2	0	0	0
125°	0	2	2	0	0	1
135°	2	3	3	2	2	1
145°	2	3	3	2	2	1
155°	3	3	3	2	2	1
165°	3	4	3	2	2	1
175°	4	4	3	2	2	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8756.2	8756.2	8756.2	8756.2	8756.2
2.5°	8807.3	8788.3	8725.5	8782.5	8778.1
5°	8623.3	8645.2	8712.4	8846.7	8855.5
7.5°	8541.5	8601.4	8639.3	8930.0	8968.0
10°	8230.4	8323.8	8665.6	8968.0	9102.3
12.5°	7996.7	8185.1	8516.6	9029.3	9263.0
15°	7692.9	7944.1	8483.0	9173.9	9452.9
17.5°	7434.3	7691.4	8380.8	9283.4	9673.4
20°	7044.4	7510.3	8297.6	9397.4	9926.1
22.5°	6765.4	7237.2	8233.3	9498.1	10225.5
25°	6325.8	6920.2	8199.7	9701.2	10514.7
27.5°	5957.7	6652.9	8125.2	9831.2	10706.0
30°	5588.2	6325.8	8082.8	9854.5	10777.6
32.5°	5142.7	6059.9	7976.2	9800.5	10675.4
35°	4802.4	5689.0	7893.0	9615.0	10408.1
37.5°	4387.6	5396.8	7710.4	9279.1	9969.9
40°	3959.6	5126.6	7520.5	8754.7	9286.4
42.5°	3527.3	4822.8	7216.7	8055.1	8217.2
45°	3115.4	4491.3	6752.3	6997.6	6872.0
47.5°	2745.9	4134.9	6203.1	5671.4	5376.4
50°	2347.2	3772.7	5458.2	4317.5	3544.8
52.5°	1987.8	3470.3	4432.9	2924.1	2205.5
55°	1706.0	3058.5	3290.7	1843.3	1513.2
57.5°	1505.9	2743.0	2374.9	1457.7	1295.5
60°	1372.9	2348.6	1668.0	1337.9	1139.3
62.5°	1241.5	1857.9	1427.0	1219.6	958.1
65°	1118.8	1466.4	1297.0	1057.5	782.9
67.5°	991.7	1190.4	1171.4	959.6	652.9
70°	854.4	978.6	1029.7	803.3	452.8
72.5°	731.8	820.8	876.3	686.5	384.1
75°	601.8	667.5	711.3	632.4	333.0
77.5°	477.6	537.5	579.8	572.5	292.1
80°	368.1	407.5	468.8	512.7	245.4
82.5°	251.2	280.4	369.5	442.6	191.3
85°	141.7	185.5	281.9	371.0	135.8
87.5°	40.9	109.5	204.5	298.0	78.9
90°	0.0	52.6	138.8	224.9	29.2
92.5°	0.0	20.4	90.6	157.7	20.4
95°	0.0	5.8	52.6	103.7	13.1
97.5°	0.0	1.5	24.8	61.3	5.8
100°	0.0	1.5	8.8	29.2	1.5
102.5°	0.0	1.5	2.9	10.2	0.0
105°	0.0	1.5	1.5	1.5	0.0
107.5°	0.0	1.5	1.5	0.0	0.0
110°	0.0	1.5	1.5	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	1.5	1.5	0.0	0.0
115°	0.0	1.5	1.5	0.0	0.0
117.5°	0.0	1.5	1.5	0.0	0.0
120°	0.0	1.5	1.5	0.0	0.0
122.5°	0.0	1.5	1.5	0.0	0.0
125°	0.0	1.5	1.5	0.0	0.0
127.5°	1.5	1.5	1.5	1.5	0.0
130°	1.5	2.9	2.9	1.5	0.0
132.5°	1.5	2.9	2.9	1.5	0.0
135°	1.5	2.9	2.9	1.5	1.5
137.5°	1.5	2.9	2.9	1.5	1.5
140°	1.5	2.9	2.9	1.5	1.5
142.5°	1.5	2.9	2.9	1.5	1.5
145°	1.5	2.9	2.9	1.5	1.5
147.5°	1.5	2.9	2.9	1.5	1.5
150°	1.5	2.9	2.9	1.5	1.5
152.5°	2.9	2.9	2.9	1.5	1.5
155°	2.9	2.9	2.9	1.5	1.5
157.5°	2.9	2.9	2.9	1.5	1.5
160°	2.9	2.9	2.9	1.5	1.5
162.5°	2.9	4.4	2.9	1.5	1.5
165°	2.9	4.4	2.9	1.5	1.5
167.5°	2.9	4.4	2.9	1.5	1.5
170°	2.9	4.4	2.9	1.5	1.5
172.5°	2.9	4.4	2.9	1.5	1.5
175°	4.4	4.4	2.9	1.5	1.5
177.5°	4.4	4.4	2.9	2.9	2.9
180°	2.9	2.9	2.9	2.9	2.9

(END OF REPORT)