

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: P685677

Luminaire Tested: **8CZL-24-UNV-LVR-L840-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685677
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-24-UNV-LVR-L840-CD-U
Description: METALUX CRUZE LINEAR 8FT LOUVER MODEL @80 CRI and 4000K
Light Source: (1176) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

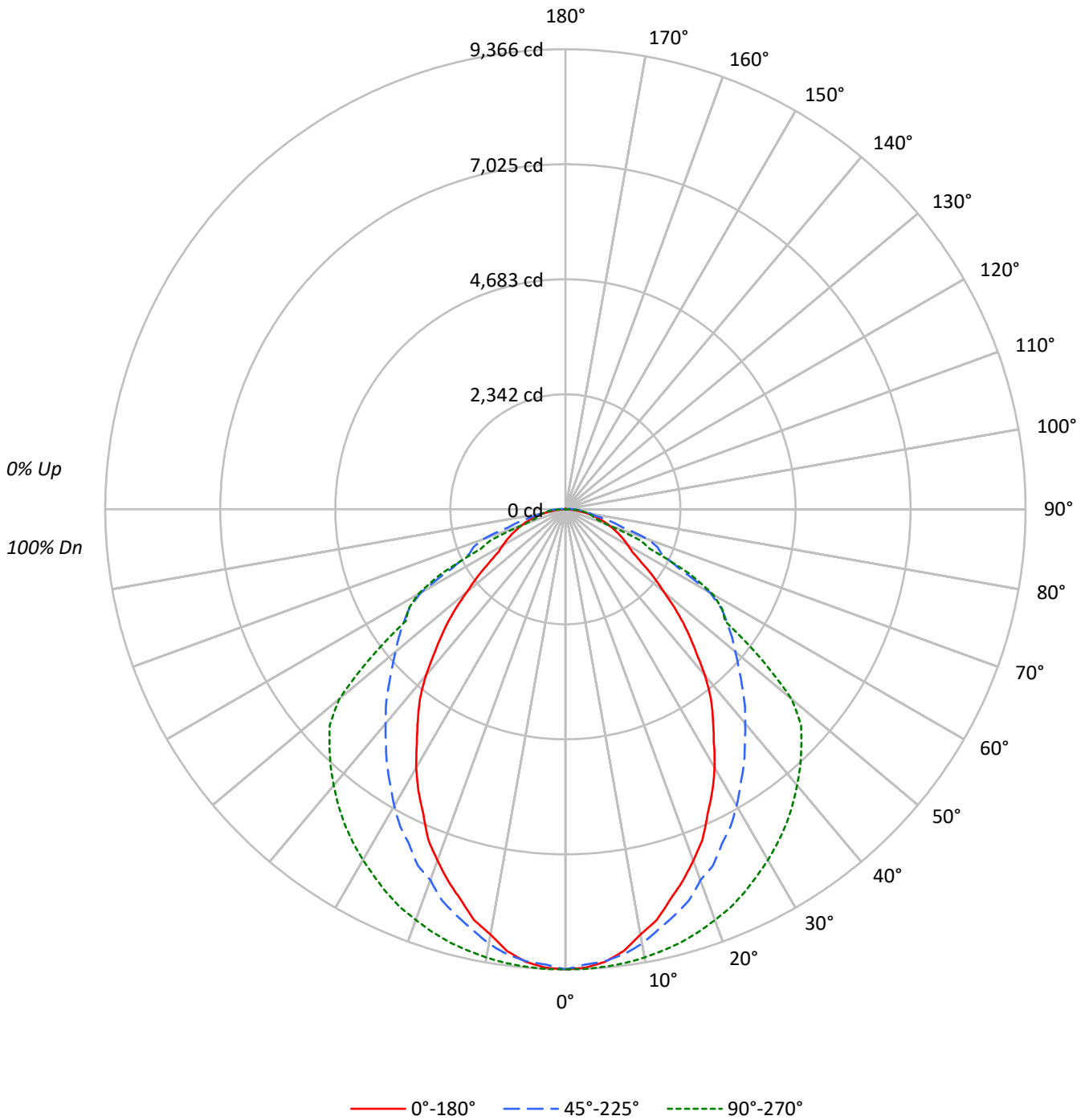
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21208.9 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.31 / 1.26
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	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	88	88	88	85
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	75	75	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	65	65	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	56	56	56	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	49	49	49	49	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	44	44	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	39	39	39	37
8	63	50	42	36	61	49	42	36	48	41	36	47	40	36	46	40	35	35	35	35	34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	32	32	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	34	29	29	29	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15121	15121	15121
5°	14990	14969	15148
10°	14407	14725	15192
15°	13753	14312	15253
20°	13077	13805	15289
25°	12196	13406	15339
30°	11324	12994	15364
35°	10323	12485	15435
40°	9313	11998	15462
45°	8010	11614	15503
50°	6547	11340	15096
55°	5331	11296	11165
60°	4753	10981	11201
65°	4595	8240	7224
70°	4415	8445	4106
75°	4255	5952	3666
80°	3881	4842	4368
85°	3475	6036	5443



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	877.2	4.1
10°-20°	2431.8	11.5
20°-30°	3518.2	16.6
30°-40°	4015.5	18.9
40°-50°	3945.6	18.6
50°-60°	3147.2	14.8
60°-70°	1982.4	9.3
70°-80°	878.2	4.1
80°-90°	336.8	1.6
90°-100°	66.8	0.3
100°-110°	4.5	0.0
110°-120°	0.6	0.0
120°-130°	0.7	0.0
130°-140°	1.0	0.0
140°-150°	0.9	0.0
150°-160°	0.7	0.0
160°-170°	0.8	0.0
170°-180°	0.3	0.0
0°-30°	6827.1	32.2
0°-40°	10842.6	51.1
0°-60°	17935.4	84.6
0°-90°	21132.7	99.6
90°-120°	71.8	0.3
90°-150°	74.4	0.4
90°-180°	76.0	0.4
0°-180°	21208.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9365	9365	9365	9365	9365	
5°	9249	9269	9236	9313	9346	868
15°	8228	8309	8562	8964	9125	2316
25°	6846	7067	7525	8215	8610	3155
35°	5237	5554	6334	7268	7831	3274
45°	3508	4019	5086	6225	6789	2696
55°	1894	2564	4013	4327	3966	1741
65°	1203	1638	2157	2298	1891	1192
75°	682	788	954	723	588	715
85°	188	228	326	420	294	198
90°	2	78	172	250	48	11
95°	2	12	71	122	16	1
105°	2	2	2	4	0	2
115°	2	2	0	0	0	1
125°	2	3	0	0	0	1
135°	2	3	2	0	0	1
145°	3	3	2	0	0	2
155°	3	3	2	0	0	1
165°	4	4	3	2	0	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°	9365.1	9365.1	9365.1	9365.1	9365.1
2.5°	9340.3	9334.5	9277.8	9357.8	9366.5
5°	9248.7	9269.1	9235.6	9312.7	9346.2
7.5°	9072.7	9094.5	9133.8	9274.9	9315.6
10°	8787.7	8842.9	8981.1	9178.9	9266.2
12.5°	8569.5	8637.9	8761.5	9097.5	9197.8
15°	8227.7	8309.2	8562.2	8963.6	9125.1
17.5°	7936.8	8085.2	8354.2	8794.9	9020.4
20°	7611.0	7730.3	8034.3	8629.1	8898.2
22.5°	7285.2	7436.5	7851.0	8408.1	8774.6
25°	6846.0	7067.1	7525.2	8214.6	8610.2
27.5°	6473.7	6752.9	7279.4	7986.3	8427.0
30°	6073.7	6290.4	6969.6	7753.6	8240.8
32.5°	5622.8	5963.2	6635.1	7487.4	8045.9
35°	5237.4	5554.5	6334.0	7267.8	7830.6
37.5°	4865.1	5163.2	6001.0	7019.1	7592.1
40°	4418.6	4811.3	5692.6	6735.5	7336.1
42.5°	3924.0	4405.5	5406.1	6467.8	7075.8
45°	3508.1	4018.6	5086.1	6225.0	6789.3
47.5°	3076.1	3614.3	4786.5	5929.7	6505.7
50°	2606.3	3260.8	4514.5	5656.3	6009.7
52.5°	2263.1	2892.9	4270.2	5161.8	5065.8
55°	1893.7	2564.2	4012.8	4326.9	3966.2
57.5°	1613.0	2267.5	3771.3	3397.5	3785.9
60°	1471.9	2030.4	3400.5	3234.7	3468.8
62.5°	1339.5	1822.4	2600.5	3033.9	2853.6
65°	1202.8	1637.7	2156.9	2298.0	1890.8
67.5°	1070.5	1477.7	2033.3	1716.2	1646.4
70°	935.2	1354.1	1788.9	1463.2	869.7
72.5°	807.2	1211.5	1223.2	810.1	645.8
75°	682.1	788.3	954.1	722.9	587.6
77.5°	545.4	676.3	638.5	647.2	532.3
80°	417.4	465.4	520.7	578.9	469.8
82.5°	295.2	346.2	421.8	506.1	385.4
85°	187.6	228.3	325.8	420.3	293.8
87.5°	74.2	144.0	242.9	338.9	173.1
90°	1.5	78.5	171.6	250.2	48.0
92.5°	1.5	36.4	114.9	183.3	24.7
95°	1.5	11.6	71.3	122.2	16.0
97.5°	1.5	4.4	37.8	75.6	8.7
100°	1.5	1.5	16.0	40.7	4.4
102.5°	1.5	1.5	5.8	16.0	1.5
105°	1.5	1.5	1.5	4.4	0.0
107.5°	1.5	1.5	0.0	0.0	0.0
110°	1.5	1.5	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)