

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: P685786

Luminaire Tested: **8CZL-18-UNV-M-LVR-L835-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685786
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-18-UNV-M-LVR-L835-CD-U
Description: METALUX CRUZE LINEAR 8FT LOUVER MODEL WITH MEDIUM LENS @80 CRI and 3500K
Light Source: (1176) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

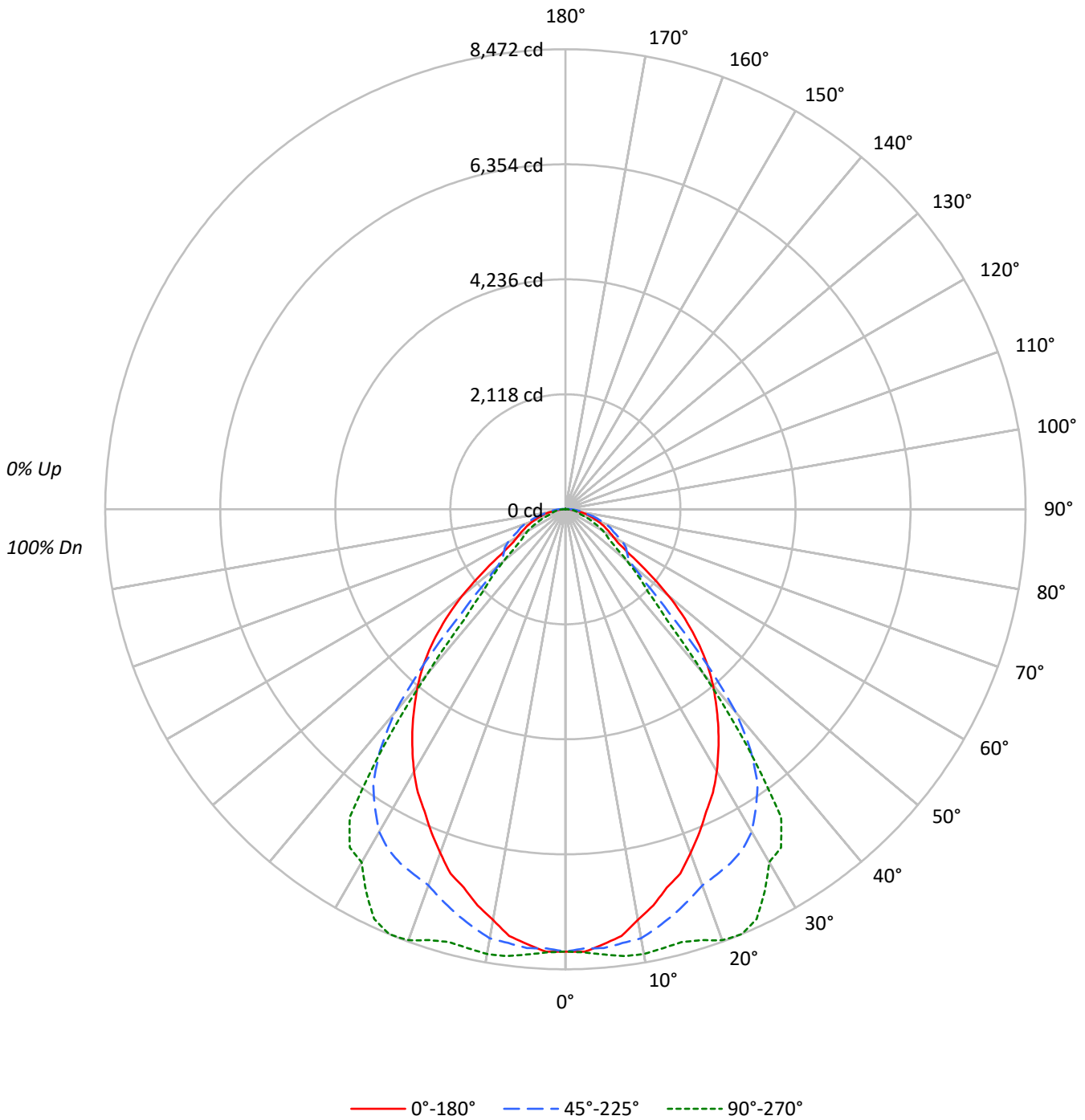
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15066.5 lumens
Efficiency: N/A
Efficacy: 138.2 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.34 / 1.2
Luminous Opening: Rectangular (W 0.83' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 109
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88
2	103	96	90	86	100	94	89	84	91	86	83	87	84	81	84	81	79	77
3	95	87	80	74	93	85	79	74	82	77	72	79	75	71	77	73	70	68
4	89	78	71	65	86	77	70	65	75	69	64	73	67	63	70	66	62	60
5	83	72	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49
7	72	60	53	47	70	59	52	47	58	51	47	57	51	46	55	50	46	44
8	68	56	48	43	66	55	48	43	54	47	42	52	47	42	51	46	42	40
9	64	52	44	39	62	51	44	39	50	43	39	49	43	39	48	42	39	37
10	60	48	41	36	59	47	41	36	46	40	36	46	40	36	45	39	35	34

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13151	13151	13151
5°	13029	13146	13342
10°	12587	13153	13634
15°	12058	12908	13794
20°	11571	12662	14511
25°	10932	12813	14834
30°	10391	12785	13991
35°	9676	12158	13642
40°	8907	10306	8314
45°	7848	6143	4928
50°	6229	4079	3719
55°	4033	3880	2822
60°	3292	3944	2593
65°	3137	3717	2118
70°	2978	3730	1674
75°	2829	3492	1557
80°	2616	3298	1748
85°	2342	4033	2145



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	772.9	5.1
10°-20°	2192.3	14.6
20°-30°	3305.9	21.9
30°-40°	3652.9	24.2
40°-50°	2290.4	15.2
50°-60°	1233.1	8.2
60°-70°	837.5	5.6
70°-80°	500.2	3.3
80°-90°	217.3	1.4
90°-100°	47.6	0.3
100°-110°	5.5	0.0
110°-120°	2.0	0.0
120°-130°	1.8	0.0
130°-140°	2.2	0.0
140°-150°	2.0	0.0
150°-160°	1.6	0.0
160°-170°	1.2	0.0
170°-180°	0.4	0.0
0°-30°	6271.1	41.6
0°-40°	9924.0	65.9
0°-60°	13447.5	89.3
0°-90°	15002.5	99.6
90°-120°	55.0	0.4
90°-150°	60.9	0.4
90°-180°	64.0	0.4
0°-180°	15066.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8145	8145	8145	8145	8145	
5°	8039	8052	8111	8206	8232	757
15°	7213	7466	7722	8096	8252	2036
25°	6136	6509	7192	7959	8326	2833
35°	4909	5486	6168	6636	6921	3063
45°	3437	3742	2690	2193	2158	2622
55°	1433	1498	1378	1193	1003	1392
65°	821	903	973	790	554	812
75°	454	504	560	460	250	478
85°	126	155	218	287	116	136
90°	3	48	110	184	34	9
95°	1	7	44	94	17	1
105°	1	2	3	7	3	1
115°	1	2	2	2	2	1
125°	1	2	2	2	2	1
135°	2	2	3	3	3	2
145°	2	3	3	3	4	1
155°	3	3	3	3	3	1
165°	3	4	4	4	4	1
175°	4	4	4	5	5	0
180°	5	5	5	5	5	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8144.8	8144.8	8144.8	8144.8	8144.8
2.5°	8155.4	8133.1	8091.7	8166.0	8167.1
5°	8038.6	8052.4	8110.8	8206.4	8231.9
7.5°	7925.0	7978.1	8056.7	8287.1	8298.8
10°	7677.5	7788.0	8022.7	8244.6	8315.8
12.5°	7471.5	7635.0	7877.2	8169.2	8279.7
15°	7213.4	7466.2	7722.1	8096.0	8252.1
17.5°	7032.8	7235.7	7549.0	8062.0	8317.9
20°	6734.4	7020.1	7369.5	8085.3	8445.4
22.5°	6444.5	6791.8	7279.2	8093.8	8471.9
25°	6136.5	6509.3	7192.2	7959.0	8326.4
27.5°	5881.6	6193.8	7062.6	7677.5	7943.0
30°	5573.6	5941.1	6857.6	7247.4	7504.4
32.5°	5242.2	5708.5	6525.2	6918.1	7385.4
35°	4908.8	5485.5	6168.3	6635.6	6921.3
37.5°	4560.4	5301.7	5607.6	5683.0	5487.6
40°	4225.9	5045.8	4889.6	4160.0	3944.4
42.5°	3860.5	4495.6	3813.8	2862.2	2765.6
45°	3436.8	3741.6	2690.2	2193.1	2158.1
47.5°	2985.4	2897.3	2006.2	1833.1	1812.9
50°	2479.9	2316.3	1623.9	1617.5	1480.5
52.5°	1932.9	1839.5	1456.1	1403.0	1185.2
55°	1432.7	1498.5	1378.5	1192.7	1002.6
57.5°	1147.0	1299.9	1324.4	1041.9	896.4
60°	1019.6	1137.4	1221.3	958.0	802.9
62.5°	914.4	1007.9	1093.9	888.9	692.5
65°	821.0	902.7	972.8	790.2	554.4
67.5°	722.2	807.2	893.2	678.6	471.5
70°	630.9	721.1	790.2	602.2	354.7
72.5°	536.3	629.8	660.6	503.4	283.6
75°	453.5	504.5	559.7	459.9	249.6
77.5°	366.4	409.9	432.3	421.6	219.8
80°	281.4	316.5	354.7	383.4	188.0
82.5°	206.0	231.5	283.6	337.7	150.8
85°	126.4	155.1	217.7	286.8	115.8
87.5°	56.3	92.4	160.4	236.8	74.3
90°	3.2	47.8	110.5	183.7	34.0
92.5°	1.1	21.2	72.2	135.9	23.4
95°	1.1	7.4	43.5	94.5	17.0
97.5°	1.1	3.2	24.4	60.5	10.6
100°	1.1	2.1	11.7	35.0	7.4
102.5°	1.1	2.1	5.3	17.0	5.3
105°	1.1	2.1	3.2	7.4	3.2
107.5°	1.1	2.1	2.1	3.2	2.1
110°	1.1	2.1	2.1	2.1	2.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	2.1	2.1	2.1	2.1
115°	1.1	2.1	2.1	2.1	2.1
117.5°	1.1	2.1	2.1	2.1	2.1
120°	1.1	2.1	2.1	2.1	2.1
122.5°	1.1	2.1	2.1	2.1	2.1
125°	1.1	2.1	2.1	2.1	2.1
127.5°	1.1	2.1	2.1	2.1	2.1
130°	1.1	2.1	2.1	2.1	2.1
132.5°	2.1	2.1	3.2	3.2	3.2
135°	2.1	2.1	3.2	3.2	3.2
137.5°	2.1	3.2	3.2	3.2	3.2
140°	2.1	3.2	3.2	3.2	3.2
142.5°	2.1	3.2	3.2	3.2	3.2
145°	2.1	3.2	3.2	3.2	4.2
147.5°	2.1	3.2	3.2	3.2	4.2
150°	2.1	3.2	3.2	3.2	3.2
152.5°	3.2	3.2	3.2	3.2	3.2
155°	3.2	3.2	3.2	3.2	3.2
157.5°	3.2	3.2	3.2	4.2	4.2
160°	3.2	4.2	4.2	4.2	4.2
162.5°	3.2	4.2	4.2	4.2	4.2
165°	3.2	4.2	4.2	4.2	4.2
167.5°	3.2	4.2	4.2	4.2	5.3
170°	4.2	4.2	4.2	5.3	5.3
172.5°	4.2	4.2	4.2	5.3	5.3
175°	4.2	4.2	4.2	5.3	5.3
177.5°	4.2	5.3	4.2	5.3	6.4
180°	5.3	5.3	5.3	5.3	5.3

(END OF REPORT)