

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: P685668

Luminaire Tested: **8CZL-32-UNV-LVR-L835-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685668
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-32-UNV-LVR-L835-CD-U
Description: METALUX CRUZE LINEAR 8FT LOUVER MODEL @80 CRI and 3500K
Light Source: (1176) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

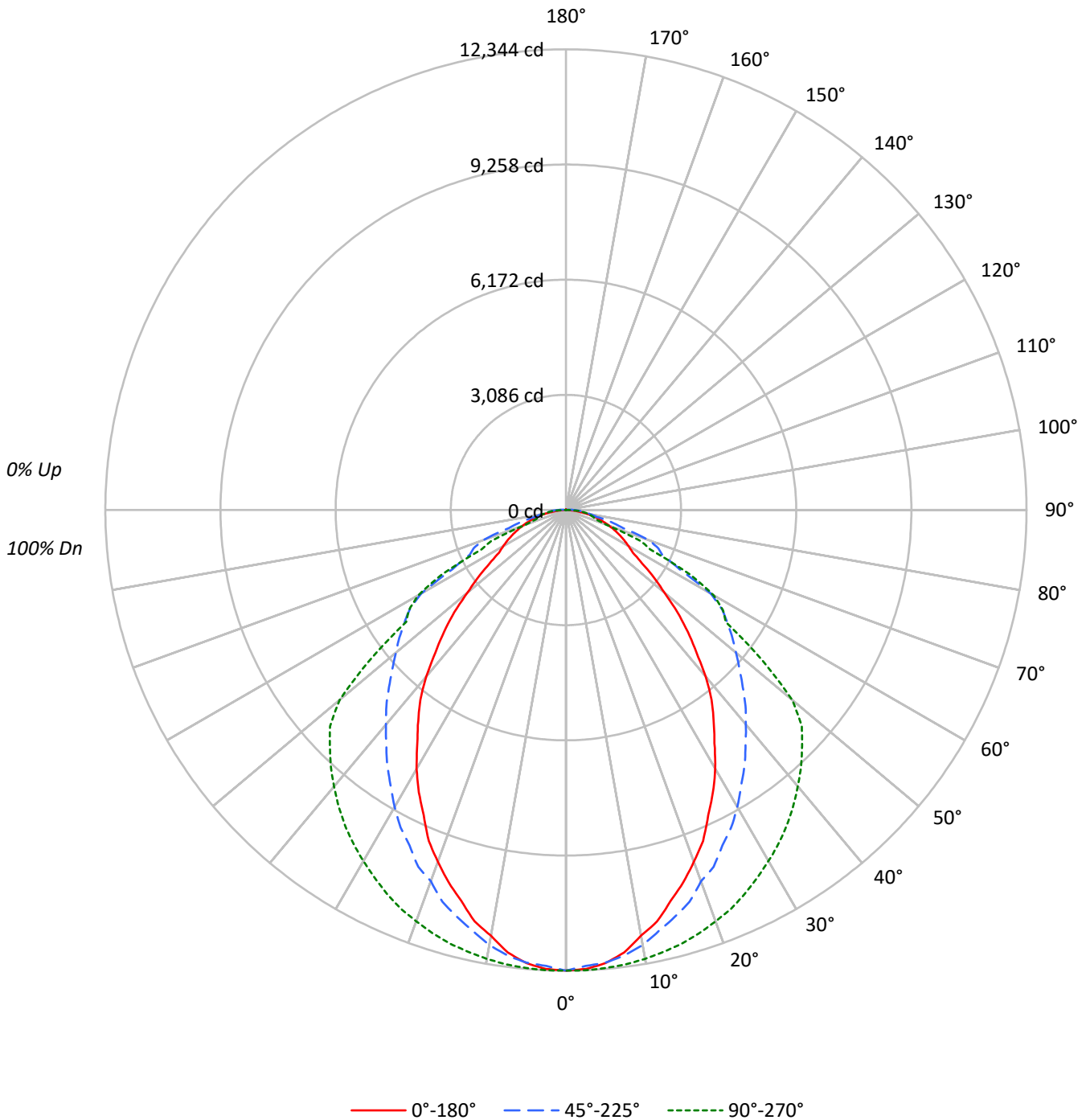
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27949.6 lumens
Efficiency: N/A
Efficacy: 135.7 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): 206
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				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	100	100	100	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85	85	85	85
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73	73	73	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63	63	63	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54	54	54	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	49	47	47	47	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42	42	42	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37	37	37	37
8	63	50	42	36	61	49	42	36	48	41	36	47	40	36	46	40	35	34	34	34	34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30	30	30	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	34	29	28	28	28	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19927	19927	19927
5°	19754	19726	19962
10°	18986	19404	20020
15°	18124	18861	20101
20°	17234	18192	20148
25°	16073	17667	20214
30°	14923	17124	20247
35°	13604	16453	20340
40°	12273	15812	20377
45°	10556	15305	20430
50°	8627	14944	19893
55°	7025	14886	14713
60°	6264	14471	14762
65°	6056	10860	9519
70°	5818	11129	5411
75°	5608	7843	4830
80°	5115	6380	5756
85°	4581	7953	7173



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1156.0	4.1
10°-20°	3204.7	11.5
20°-30°	4636.3	16.6
30°-40°	5291.7	18.9
40°-50°	5199.6	18.6
50°-60°	4147.4	14.8
60°-70°	2612.4	9.3
70°-80°	1157.3	4.1
80°-90°	443.8	1.6
90°-100°	88.0	0.3
100°-110°	5.9	0.0
110°-120°	0.7	0.0
120°-130°	0.8	0.0
130°-140°	1.3	0.0
140°-150°	1.2	0.0
150°-160°	1.0	0.0
160°-170°	1.0	0.0
170°-180°	0.4	0.0
0°-30°	8997.0	32.2
0°-40°	14288.7	51.1
0°-60°	23635.8	84.6
0°-90°	27849.3	99.6
90°-120°	94.6	0.3
90°-150°	97.9	0.4
90°-180°	100.0	0.4
0°-180°	27949.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12342	12342	12342	12342	12342	
5°	12188	12215	12171	12273	12317	1144
15°	10843	10950	11284	11813	12025	3053
25°	9022	9313	9917	10826	11347	4158
35°	6902	7320	8347	9578	10320	4315
45°	4623	5296	6703	8203	8947	3553
55°	2496	3379	5288	5702	5227	2295
65°	1585	2158	2842	3028	2492	1571
75°	899	1039	1257	953	774	942
85°	247	301	429	554	387	261
90°	2	104	226	330	63	14
95°	2	15	94	161	21	2
105°	2	2	2	6	0	2
115°	2	2	0	0	0	2
125°	2	4	0	0	0	2
135°	2	4	2	0	0	2
145°	4	4	2	0	0	2
155°	4	4	2	0	0	2
165°	6	6	4	2	0	2
175°	6	6	4	2	2	1
180°	4	4	4	4	4	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12341.6	12341.6	12341.6	12341.6	12341.6
2.5°	12309.0	12301.3	12226.6	12332.0	12343.5
5°	12188.2	12215.1	12171.0	12272.6	12316.7
7.5°	11956.3	11985.1	12036.8	12222.7	12276.4
10°	11580.6	11653.5	11835.6	12096.2	12211.2
12.5°	11293.1	11383.2	11546.1	11988.9	12121.1
15°	10842.7	10950.1	11283.6	11812.6	12025.3
17.5°	10459.4	10654.9	11009.5	11590.2	11887.3
20°	10030.0	10187.2	10587.8	11371.7	11726.3
22.5°	9600.7	9800.0	10346.3	11080.4	11563.4
25°	9021.9	9313.2	9917.0	10825.5	11346.8
27.5°	8531.2	8899.2	9593.0	10524.5	11105.3
30°	8004.1	8289.7	9184.8	10217.9	10860.0
32.5°	7409.9	7858.4	8743.9	9867.1	10603.1
35°	6902.0	7319.8	8347.2	9577.7	10319.5
37.5°	6411.3	6804.3	7908.3	9249.9	10005.1
40°	5822.9	6340.4	7501.9	8876.2	9667.8
42.5°	5171.2	5805.7	7124.3	8523.5	9324.7
45°	4623.1	5295.8	6702.7	8203.4	8947.1
47.5°	4053.8	4763.0	6307.8	7814.3	8573.4
50°	3434.7	4297.2	5949.4	7454.0	7919.8
52.5°	2982.4	3812.3	5627.4	6802.3	6675.8
55°	2495.5	3379.1	5288.1	5702.2	5226.8
57.5°	2125.6	2988.1	4970.0	4477.4	4989.1
60°	1939.7	2675.7	4481.2	4262.7	4571.3
62.5°	1765.3	2401.6	3427.0	3998.2	3760.5
65°	1585.1	2158.2	2842.5	3028.4	2491.7
67.5°	1410.7	1947.4	2679.5	2261.7	2169.7
70°	1232.4	1784.4	2357.5	1928.2	1146.2
72.5°	1063.8	1596.6	1611.9	1067.6	851.0
75°	898.9	1038.8	1257.3	952.6	774.3
77.5°	718.8	891.3	841.4	852.9	701.5
80°	550.1	613.3	686.2	762.8	619.1
82.5°	389.1	456.2	555.8	667.0	507.9
85°	247.3	300.9	429.3	553.9	387.2
87.5°	97.8	189.8	320.1	446.6	228.1
90°	1.9	103.5	226.2	329.7	63.3
92.5°	1.9	47.9	151.4	241.5	32.6
95°	1.9	15.3	93.9	161.0	21.1
97.5°	1.9	5.8	49.8	99.7	11.5
100°	1.9	1.9	21.1	53.7	5.8
102.5°	1.9	1.9	7.7	21.1	1.9
105°	1.9	1.9	1.9	5.8	0.0
107.5°	1.9	1.9	0.0	0.0	0.0
110°	1.9	1.9	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.9	1.9	0.0	0.0	0.0
115°	1.9	1.9	0.0	0.0	0.0
117.5°	1.9	1.9	0.0	0.0	0.0
120°	1.9	1.9	0.0	0.0	0.0
122.5°	1.9	1.9	0.0	0.0	0.0
125°	1.9	3.8	0.0	0.0	0.0
127.5°	1.9	1.9	0.0	0.0	0.0
130°	1.9	3.8	1.9	0.0	0.0
132.5°	1.9	3.8	1.9	0.0	0.0
135°	1.9	3.8	1.9	0.0	0.0
137.5°	1.9	3.8	1.9	0.0	0.0
140°	3.8	3.8	1.9	0.0	0.0
142.5°	3.8	3.8	1.9	0.0	0.0
145°	3.8	3.8	1.9	0.0	0.0
147.5°	3.8	3.8	1.9	0.0	0.0
150°	3.8	3.8	1.9	0.0	0.0
152.5°	3.8	3.8	1.9	0.0	0.0
155°	3.8	3.8	1.9	0.0	0.0
157.5°	3.8	5.8	1.9	0.0	0.0
160°	5.8	5.8	1.9	0.0	0.0
162.5°	5.8	5.8	3.8	1.9	0.0
165°	5.8	5.8	3.8	1.9	0.0
167.5°	5.8	5.8	3.8	1.9	0.0
170°	5.8	5.8	3.8	1.9	1.9
172.5°	5.8	5.8	3.8	1.9	1.9
175°	5.8	5.8	3.8	1.9	1.9
177.5°	5.8	5.8	3.8	1.9	1.9
180°	3.8	3.8	3.8	3.8	3.8

(END OF REPORT)