

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: P685808

Luminaire Tested: **8CZL-32-UNV-M-LVR-L850-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685808
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-32-UNV-M-LVR-L850-CD-U
Description: METALUX CRUZE LINEAR 8FT LOUVER MODEL WITH MEDIUM LENS @80 CRI and 5000K
Light Source: (1176) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

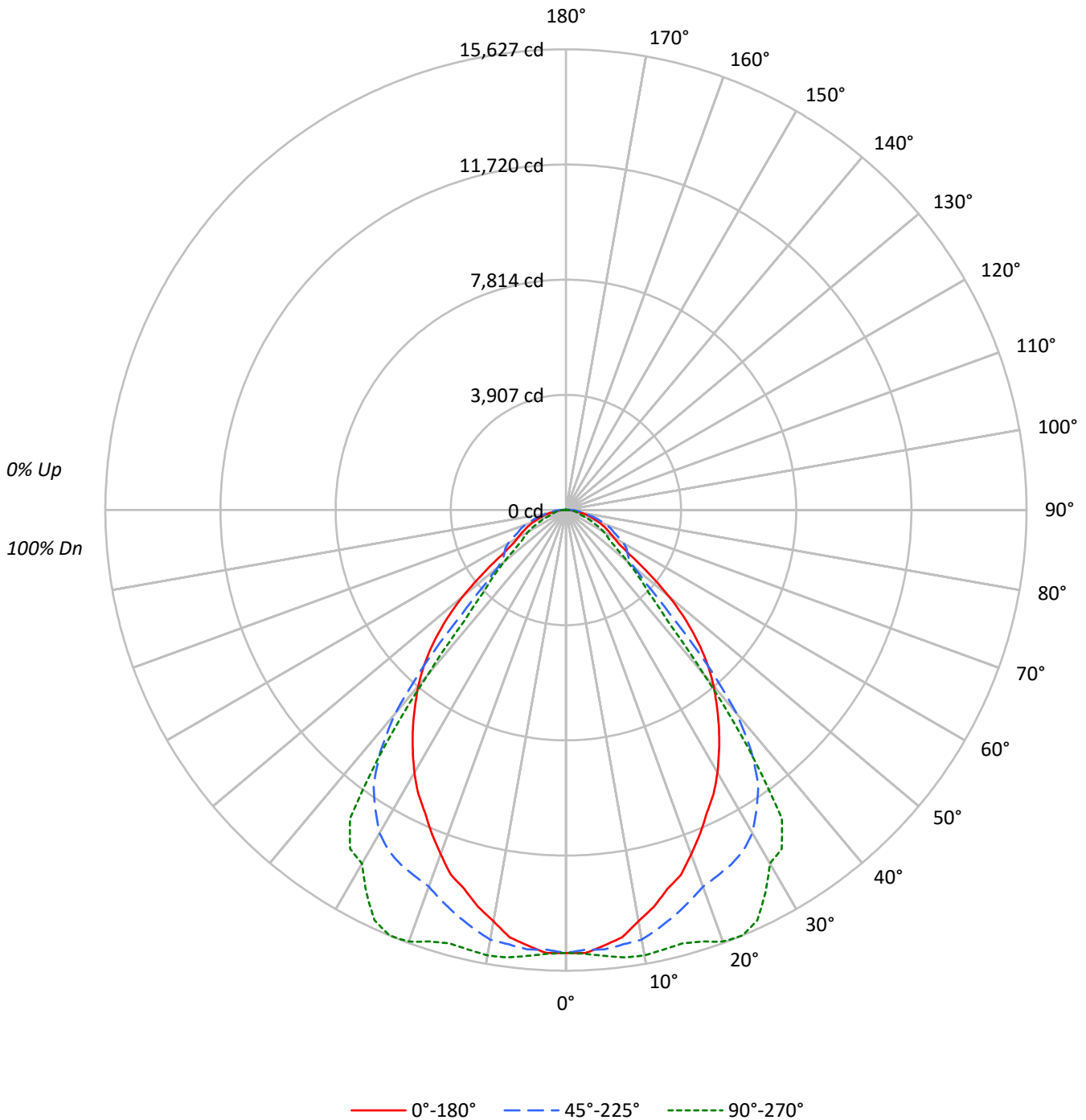
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27791.0 lumens
Efficiency: N/A
Efficacy: 134.9 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): 206
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	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	93	91	90	88
2	103	96	90	86	100	94	89	84	91	86	83	87	84	81	84	81	79	84	81	79	77
3	95	87	80	74	93	85	79	74	82	77	72	79	75	71	77	73	70	77	73	70	68
4	89	78	71	65	86	77	70	65	75	69	64	73	67	63	70	66	62	70	66	62	60
5	83	72	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	65	60	56	54
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	60	55	51	49
7	72	60	53	47	70	59	52	47	58	51	47	57	51	46	55	50	46	55	50	46	44
8	68	56	48	43	66	55	48	43	54	47	42	52	47	42	51	46	42	51	46	42	40
9	64	52	44	39	62	51	44	39	50	43	39	49	43	39	48	42	39	48	42	39	37
10	60	48	41	36	59	47	41	36	46	40	36	46	40	36	45	39	35	45	39	35	34

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24257	24257	24257
5°	24032	24248	24610
10°	23218	24262	25148
15°	22241	23809	25443
20°	21343	23356	26766
25°	20165	23634	27361
30°	19167	23583	25807
35°	17847	22426	25164
40°	16429	19010	15335
45°	14475	11330	9089
50°	11490	7524	6859
55°	7439	7158	5206
60°	6073	7275	4782
65°	5785	6855	3907
70°	5493	6881	3089
75°	5218	6440	2872
80°	4827	6084	3224
85°	4318	7440	3955



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1425.6	5.1
10°-20°	4043.8	14.6
20°-30°	6097.9	21.9
30°-40°	6737.9	24.2
40°-50°	4224.6	15.2
50°-60°	2274.5	8.2
60°-70°	1544.7	5.6
70°-80°	922.6	3.3
80°-90°	400.9	1.4
90°-100°	87.8	0.3
100°-110°	10.1	0.0
110°-120°	3.6	0.0
120°-130°	3.3	0.0
130°-140°	4.0	0.0
140°-150°	3.6	0.0
150°-160°	2.9	0.0
160°-170°	2.2	0.0
170°-180°	0.8	0.0
0°-30°	11567.3	41.6
0°-40°	18305.2	65.9
0°-60°	24804.4	89.3
0°-90°	27672.6	99.6
90°-120°	101.5	0.4
90°-150°	112.4	0.4
90°-180°	118.0	0.4
0°-180°	27791.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15023	15023	15023	15023	15023	
5°	14828	14853	14961	15137	15184	1397
15°	13305	13772	14244	14933	15221	3756
25°	11319	12007	13266	14681	15358	5226
35°	9054	10118	11378	12240	12767	5650
45°	6339	6902	4962	4045	3981	4836
55°	2643	2764	2543	2200	1849	2567
65°	1514	1665	1794	1458	1023	1498
75°	836	930	1032	848	460	882
85°	233	286	402	529	214	251
90°	6	88	204	339	63	16
95°	2	14	80	174	31	2
105°	2	4	6	14	6	2
115°	2	4	4	4	4	2
125°	2	4	4	4	4	2
135°	4	4	6	6	6	3
145°	4	6	6	6	8	2
155°	6	6	6	6	6	3
165°	6	8	8	8	8	2
175°	8	8	8	10	10	1
180°	10	10	10	10	10	

TEST NUMBER: P685808

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15023.4	15023.4	15023.4	15023.4	15023.4
2.5°	15043.0	15001.9	14925.5	15062.6	15064.6
5°	14827.5	14853.0	14960.8	15137.1	15184.1
7.5°	14617.9	14715.9	14860.9	15286.0	15307.5
10°	14161.5	14365.2	14798.2	15207.6	15338.8
12.5°	13781.5	14083.1	14529.8	15068.5	15272.2
15°	13305.4	13771.7	14243.8	14933.3	15221.3
17.5°	12972.4	13346.6	13924.5	14870.6	15342.8
20°	12421.9	12948.9	13593.4	14913.7	15577.8
22.5°	11887.1	12527.7	13426.9	14929.4	15626.8
25°	11319.0	12006.6	13266.2	14680.6	15358.4
27.5°	10848.9	11424.8	13027.2	14161.5	14651.2
30°	10280.7	10958.6	12649.2	13368.1	13842.2
32.5°	9669.5	10529.5	12036.0	12760.8	13622.8
35°	9054.4	10118.2	11377.8	12239.7	12766.7
37.5°	8411.9	9779.2	10343.4	10482.5	10122.1
40°	7794.8	9307.1	9019.2	7673.3	7275.7
42.5°	7120.9	8292.4	7034.7	5279.5	5101.2
45°	6339.3	6901.5	4962.1	4045.3	3980.7
47.5°	5506.7	5344.1	3700.5	3381.2	3344.0
50°	4574.2	4272.5	2995.3	2983.5	2730.8
52.5°	3565.4	3393.0	2685.8	2587.8	2186.2
55°	2642.7	2764.1	2542.8	2199.9	1849.3
57.5°	2115.7	2397.8	2442.9	1921.8	1653.4
60°	1880.6	2098.1	2252.8	1767.0	1481.0
62.5°	1686.7	1859.1	2017.8	1639.7	1277.3
65°	1514.3	1665.1	1794.4	1457.5	1022.6
67.5°	1332.1	1488.8	1647.5	1251.8	869.8
70°	1163.6	1330.2	1457.5	1110.7	654.3
72.5°	989.3	1161.7	1218.5	928.6	523.0
75°	836.5	930.5	1032.4	848.2	460.4
77.5°	675.8	756.2	797.3	777.7	405.5
80°	519.1	583.8	654.3	707.2	346.7
82.5°	380.0	427.1	523.0	623.0	278.2
85°	233.1	286.0	401.6	528.9	213.5
87.5°	103.8	170.4	295.8	436.9	137.1
90°	5.9	88.2	203.7	338.9	62.7
92.5°	2.0	39.2	133.2	250.7	43.1
95°	2.0	13.7	80.3	174.3	31.3
97.5°	2.0	5.9	45.1	111.7	19.6
100°	2.0	3.9	21.5	64.6	13.7
102.5°	2.0	3.9	9.8	31.3	9.8
105°	2.0	3.9	5.9	13.7	5.9
107.5°	2.0	3.9	3.9	5.9	3.9
110°	2.0	3.9	3.9	3.9	3.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.0	3.9	3.9	3.9	3.9
115°	2.0	3.9	3.9	3.9	3.9
117.5°	2.0	3.9	3.9	3.9	3.9
120°	2.0	3.9	3.9	3.9	3.9
122.5°	2.0	3.9	3.9	3.9	3.9
125°	2.0	3.9	3.9	3.9	3.9
127.5°	2.0	3.9	3.9	3.9	3.9
130°	2.0	3.9	3.9	3.9	3.9
132.5°	3.9	3.9	5.9	5.9	5.9
135°	3.9	3.9	5.9	5.9	5.9
137.5°	3.9	5.9	5.9	5.9	5.9
140°	3.9	5.9	5.9	5.9	5.9
142.5°	3.9	5.9	5.9	5.9	5.9
145°	3.9	5.9	5.9	5.9	7.8
147.5°	3.9	5.9	5.9	5.9	7.8
150°	3.9	5.9	5.9	5.9	5.9
152.5°	5.9	5.9	5.9	5.9	5.9
155°	5.9	5.9	5.9	5.9	5.9
157.5°	5.9	5.9	5.9	7.8	7.8
160°	5.9	7.8	7.8	7.8	7.8
162.5°	5.9	7.8	7.8	7.8	7.8
165°	5.9	7.8	7.8	7.8	7.8
167.5°	5.9	7.8	7.8	7.8	9.8
170°	7.8	7.8	7.8	9.8	9.8
172.5°	7.8	7.8	7.8	9.8	9.8
175°	7.8	7.8	7.8	9.8	9.8
177.5°	7.8	9.8	7.8	9.8	11.8
180°	9.8	9.8	9.8	9.8	9.8

(END OF REPORT)