

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: P685748

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

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685748
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-32-UNV-N-LVR-L850-CD-U
Description: METALUX CRUZE LINEAR 8FT LOUVER MODEL WITH NARROW LENS @80 CRI and 5000K
Light Source: (1176) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

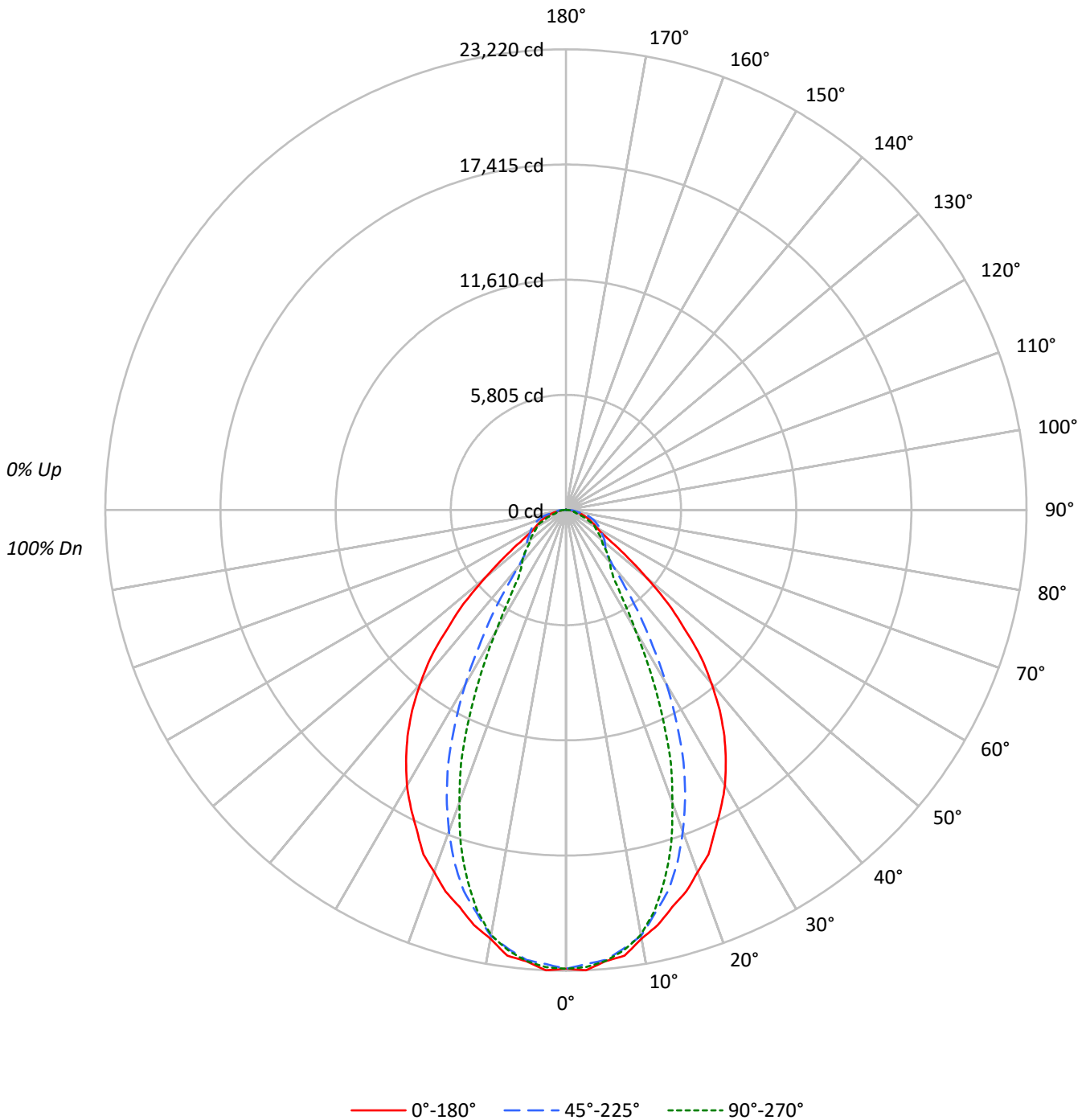
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27374.1 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 0.8 / 0.85
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	
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	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	97	92	87	101	95	90	86	92	88	84	88	85	82	86	83	80	78
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53
7	75	64	57	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	43	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	37330	37330	37330
5°	37000	36895	36990
10°	35957	35735	35648
15°	34623	33241	32187
20°	33348	29612	26956
25°	31690	25004	20554
30°	29892	18914	13133
35°	27436	12823	8251
40°	24062	7812	7238
45°	19278	6508	6485
50°	13329	6431	5855
55°	7852	6374	5514
60°	5851	6623	5446
65°	5538	6668	4790
70°	5326	7111	3616
75°	5022	7137	3092
80°	4663	5919	3497
85°	4137	7186	4318



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2147.7	7.8
10°-20°	5561.1	20.3
20°-30°	6496.6	23.7
30°-40°	4819.8	17.6
40°-50°	3195.2	11.7
50°-60°	2119.1	7.7
60°-70°	1581.1	5.8
70°-80°	933.2	3.4
80°-90°	393.0	1.4
90°-100°	84.9	0.3
100°-110°	11.5	0.0
110°-120°	5.9	0.0
120°-130°	5.3	0.0
130°-140°	5.1	0.0
140°-150°	5.3	0.0
150°-160°	4.7	0.0
160°-170°	3.5	0.0
170°-180°	1.3	0.0
0°-30°	14205.4	51.9
0°-40°	19025.2	69.5
0°-60°	24339.4	88.9
0°-90°	27246.6	99.5
90°-120°	102.2	0.4
90°-150°	118.0	0.4
90°-180°	127.0	0.5
0°-180°	27374.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23120	23120	23120	23120	23120	
5°	22828	22809	22764	22846	22823	2160
15°	20713	20466	19886	19544	19256	5843
25°	17788	16509	14035	12039	11538	8193
35°	13920	10313	6505	4398	4186	8640
45°	8443	4981	2850	2958	2840	6498
55°	2789	2450	2264	2186	1959	2745
65°	1450	1620	1745	1706	1254	1445
75°	805	901	1144	831	496	850
85°	223	272	388	515	233	241
90°	4	82	194	333	69	14
95°	2	14	76	166	35	2
105°	2	4	8	14	12	2
115°	2	4	6	8	8	2
125°	4	4	6	8	8	3
135°	4	6	6	8	8	3
145°	6	8	8	10	10	4
155°	8	10	10	12	12	3
165°	10	12	12	14	14	3
175°	10	12	14	16	18	1
180°	14	14	14	14	14	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	23120.4	23120.4	23120.4	23120.4	23120.4
2.5°	23220.3	23095.0	22914.7	23077.3	23063.6
5°	22828.5	22809.0	22763.9	22846.2	22822.7
7.5°	22652.2	22546.5	22295.7	22489.7	22380.0
10°	21931.4	21808.0	21796.2	21757.1	21743.3
12.5°	21420.1	21271.3	20795.3	20769.8	20664.0
15°	20713.0	20466.2	19886.3	19543.5	19255.6
17.5°	20164.5	19627.8	18660.1	18021.5	17651.3
20°	19408.4	18816.8	17234.0	16119.5	15688.5
22.5°	18785.5	17737.5	15702.2	14125.3	13829.5
25°	17788.4	16509.3	14035.2	12039.1	11537.7
27.5°	16922.6	15157.7	12068.5	9878.5	9263.4
30°	16033.3	13643.5	10144.9	7759.0	7044.1
32.5°	14997.0	12117.5	8164.5	5821.7	5304.6
35°	13919.7	10313.4	6505.4	4397.6	4186.1
37.5°	12732.6	8691.5	4889.3	3672.9	3708.1
40°	11416.2	7277.2	3706.2	3367.3	3433.9
42.5°	10103.8	6086.2	3083.2	3167.5	3187.1
45°	8442.7	4981.4	2850.1	2957.9	2840.3
47.5°	6991.2	4070.5	2685.6	2673.8	2507.3
50°	5306.5	3318.3	2560.2	2419.2	2331.0
52.5°	3929.5	2799.2	2440.7	2286.0	2195.9
55°	2789.4	2450.5	2264.4	2186.1	1958.9
57.5°	2096.0	2203.7	2129.3	1953.0	1794.3
60°	1811.9	1986.3	2050.9	1841.3	1686.6
62.5°	1635.6	1800.2	1923.6	1774.7	1543.6
65°	1449.6	1620.0	1745.3	1706.2	1253.7
67.5°	1287.0	1477.0	1631.7	1463.3	1024.5
70°	1128.3	1304.6	1506.4	1241.9	765.9
72.5°	957.9	1091.1	1334.0	965.7	558.3
75°	805.1	901.1	1144.0	830.6	495.6
77.5°	644.5	724.8	783.5	756.1	436.8
80°	501.5	581.8	636.6	687.6	376.1
82.5°	364.3	417.2	505.4	609.2	313.4
85°	223.3	272.3	387.9	515.2	233.1
87.5°	96.0	166.5	284.0	427.0	152.8
90°	3.9	82.3	193.9	333.0	68.6
92.5°	2.0	35.3	125.4	244.9	45.1
95°	2.0	13.7	76.4	166.5	35.3
97.5°	2.0	5.9	39.2	107.7	25.5
100°	2.0	3.9	21.5	62.7	17.6
102.5°	2.0	3.9	9.8	31.3	13.7
105°	2.0	3.9	7.8	13.7	11.8
107.5°	2.0	3.9	5.9	9.8	9.8
110°	2.0	3.9	5.9	9.8	9.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.0	3.9	5.9	9.8	9.8
115°	2.0	3.9	5.9	7.8	7.8
117.5°	2.0	3.9	5.9	7.8	7.8
120°	2.0	3.9	5.9	7.8	7.8
122.5°	2.0	3.9	5.9	7.8	7.8
125°	3.9	3.9	5.9	7.8	7.8
127.5°	3.9	5.9	5.9	7.8	7.8
130°	3.9	5.9	5.9	7.8	7.8
132.5°	3.9	5.9	5.9	7.8	7.8
135°	3.9	5.9	5.9	7.8	7.8
137.5°	3.9	5.9	7.8	7.8	7.8
140°	5.9	7.8	7.8	7.8	7.8
142.5°	5.9	7.8	7.8	9.8	7.8
145°	5.9	7.8	7.8	9.8	9.8
147.5°	5.9	7.8	9.8	9.8	9.8
150°	5.9	7.8	9.8	11.8	11.8
152.5°	7.8	7.8	9.8	11.8	11.8
155°	7.8	9.8	9.8	11.8	11.8
157.5°	7.8	9.8	9.8	11.8	13.7
160°	7.8	9.8	11.8	13.7	13.7
162.5°	7.8	9.8	11.8	13.7	13.7
165°	9.8	11.8	11.8	13.7	13.7
167.5°	9.8	11.8	13.7	13.7	15.7
170°	9.8	11.8	13.7	15.7	15.7
172.5°	9.8	11.8	13.7	15.7	15.7
175°	9.8	11.8	13.7	15.7	17.6
177.5°	9.8	11.8	13.7	15.7	17.6
180°	13.7	13.7	13.7	13.7	13.7

(END OF REPORT)