

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: P685895

Luminaire Tested: **8CZL-14-UNV-W-LVR-L950-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685895
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-14-UNV-W-LVR-L950-CD-U
Description: METALUX CRUZE LINEAR 8FT LOUVER MODEL WITH WIDE LENS @90 CRI and 5000K
Light Source: (784) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

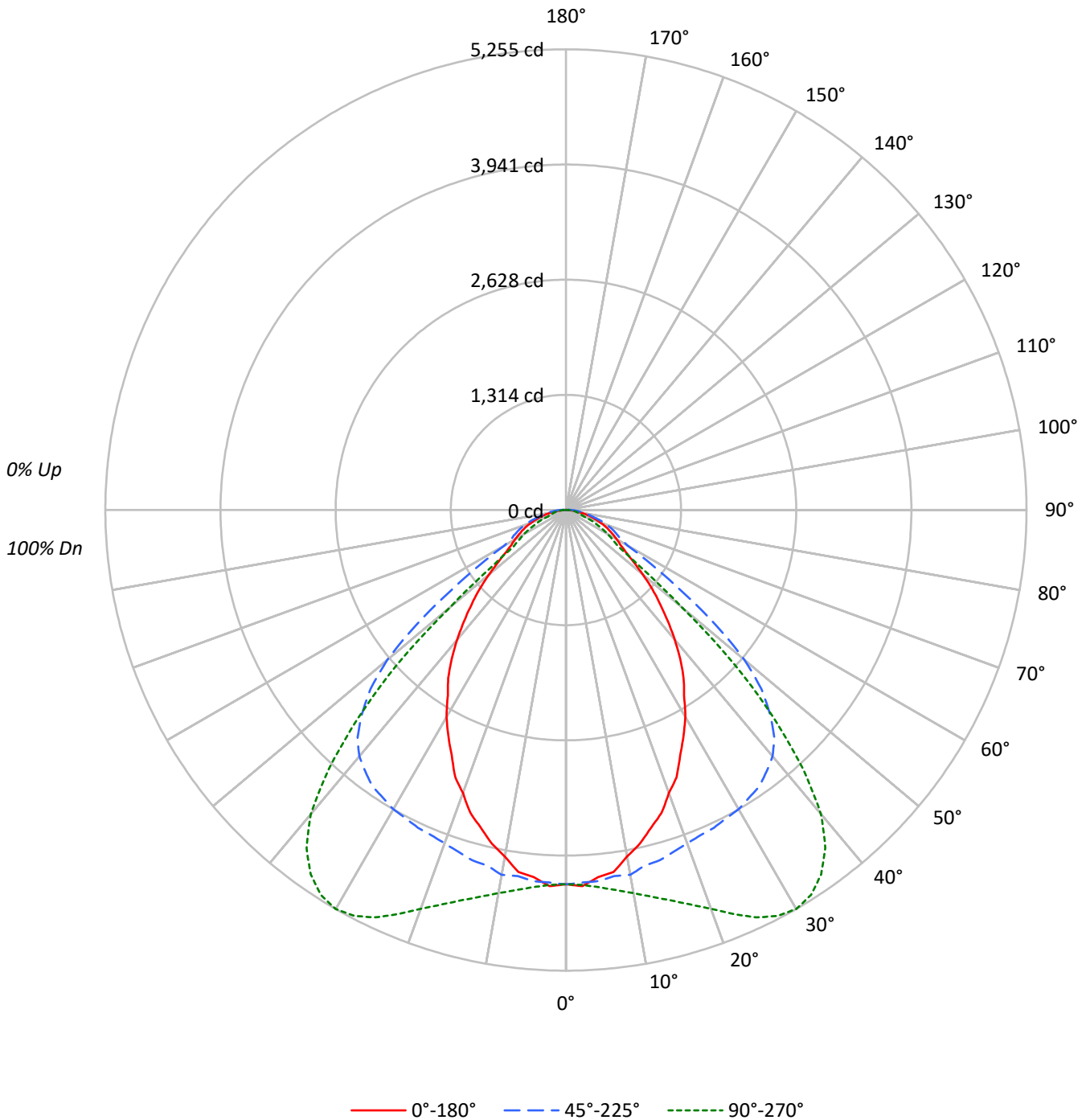
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10157.0 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.64 / 1.46
Luminous Opening: Rectangular (W 0.83' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 89
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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	89	89	89	87
2	102	95	89	84	99	93	88	83	89	85	81	86	82	79	83	80	77	77	77	77	75
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	68	68	68	66
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	59	59	59	59	57
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	53	53	53	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	38	38	38	36
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	34	34	34	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	31	31	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6893	6893	6893
5°	6814	6885	6998
10°	6579	6927	7276
15°	6269	6914	7704
20°	5901	6951	8315
25°	5495	7122	9133
30°	5080	7347	9797
35°	4615	7585	10002
40°	4069	7728	9543
45°	3468	7517	7650
50°	2875	6685	4341
55°	2341	4516	2077
60°	2162	2626	1794
65°	2084	2416	1458
70°	1967	2370	1042
75°	1830	2163	1013
80°	1669	2126	1112
85°	1280	2545	1226



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.9	4.0
10°-20°	1178.3	11.6
20°-30°	1870.0	18.4
30°-40°	2335.5	23.0
40°-50°	2145.1	21.1
50°-60°	1144.8	11.3
60°-70°	589.2	5.8
70°-80°	324.0	3.2
80°-90°	133.7	1.3
90°-100°	25.8	0.3
100°-110°	1.4	0.0
110°-120°	0.3	0.0
120°-130°	0.4	0.0
130°-140°	0.8	0.0
140°-150°	0.7	0.0
150°-160°	0.5	0.0
160°-170°	0.4	0.0
170°-180°	0.1	0.0
0°-30°	3454.2	34.0
0°-40°	5789.8	57.0
0°-60°	9079.7	89.4
0°-90°	10126.6	99.7
90°-120°	27.5	0.3
90°-150°	29.4	0.3
90°-180°	30.0	0.3
0°-180°	10157.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4269	4269	4269	4269	4269	
5°	4204	4215	4248	4313	4318	397
15°	3751	3873	4136	4473	4609	1055
25°	3084	3374	3998	4730	5126	1421
35°	2341	2774	3848	4688	5075	1454
45°	1519	2190	3292	3412	3350	1176
55°	832	1491	1604	899	738	768
65°	546	715	632	516	382	539
75°	293	325	347	308	162	311
85°	69	90	137	181	66	79
90°	0	26	68	110	14	3
95°	0	3	26	51	6	0
105°	0	1	1	1	0	0
115°	0	1	1	0	0	0
125°	0	1	1	0	0	0
135°	1	1	1	1	1	1
145°	1	1	1	1	1	0
155°	1	1	1	1	1	1
165°	1	2	1	1	1	0
175°	2	2	1	1	1	0
180°	1	1	1	1	1	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4269.2	4269.2	4269.2	4269.2	4269.2
2.5°	4294.1	4284.8	4254.2	4282.0	4279.8
5°	4204.4	4215.0	4247.8	4313.3	4317.6
7.5°	4164.5	4193.7	4212.2	4353.9	4372.4
10°	4012.8	4058.4	4225.0	4372.4	4437.9
12.5°	3898.9	3990.7	4152.4	4402.3	4516.3
15°	3750.7	3873.2	4136.0	4472.8	4608.8
17.5°	3624.7	3750.0	4086.1	4526.2	4716.4
20°	3434.6	3661.7	4045.6	4581.8	4839.6
22.5°	3298.5	3528.6	4014.2	4630.9	4985.5
25°	3084.2	3374.0	3997.8	4729.9	5126.5
27.5°	2904.7	3243.7	3961.5	4793.3	5219.8
30°	2724.6	3084.2	3940.9	4804.7	5254.7
32.5°	2507.4	2954.6	3888.9	4778.3	5204.9
35°	2341.4	2773.7	3848.3	4687.9	5074.6
37.5°	2139.2	2631.3	3759.3	4524.1	4860.9
40°	1930.6	2499.5	3666.7	4268.4	4527.7
42.5°	1719.8	2351.4	3518.6	3927.3	4006.4
45°	1519.0	2189.8	3292.1	3411.8	3350.5
47.5°	1338.8	2016.0	3024.4	2765.2	2621.3
50°	1144.4	1839.4	2661.2	2105.0	1728.3
52.5°	969.2	1692.0	2161.3	1425.7	1075.3
55°	831.8	1491.2	1604.4	898.7	737.8
57.5°	734.2	1337.4	1157.9	710.7	631.6
60°	669.4	1145.1	813.2	652.3	555.5
62.5°	605.3	905.8	695.7	594.6	467.2
65°	545.5	715.0	632.4	515.6	381.7
67.5°	483.5	580.4	571.1	467.9	318.3
70°	416.6	477.1	502.0	391.7	220.8
72.5°	356.8	400.2	427.3	334.7	187.3
75°	293.4	325.4	346.8	308.3	162.4
77.5°	232.9	262.1	282.7	279.2	142.4
80°	179.5	198.7	228.6	250.0	119.6
82.5°	122.5	136.7	180.2	215.8	93.3
85°	69.1	90.4	137.4	180.9	66.2
87.5°	19.9	53.4	99.7	145.3	38.5
90°	0.0	25.6	67.7	109.7	14.2
92.5°	0.0	10.0	44.2	76.9	10.0
95°	0.0	2.8	25.6	50.6	6.4
97.5°	0.0	0.7	12.1	29.9	2.8
100°	0.0	0.7	4.3	14.2	0.7
102.5°	0.0	0.7	1.4	5.0	0.0
105°	0.0	0.7	0.7	0.7	0.0
107.5°	0.0	0.7	0.7	0.0	0.0
110°	0.0	0.7	0.7	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.7	0.7	0.0	0.0
115°	0.0	0.7	0.7	0.0	0.0
117.5°	0.0	0.7	0.7	0.0	0.0
120°	0.0	0.7	0.7	0.0	0.0
122.5°	0.0	0.7	0.7	0.0	0.0
125°	0.0	0.7	0.7	0.0	0.0
127.5°	0.7	0.7	0.7	0.7	0.0
130°	0.7	1.4	1.4	0.7	0.0
132.5°	0.7	1.4	1.4	0.7	0.0
135°	0.7	1.4	1.4	0.7	0.7
137.5°	0.7	1.4	1.4	0.7	0.7
140°	0.7	1.4	1.4	0.7	0.7
142.5°	0.7	1.4	1.4	0.7	0.7
145°	0.7	1.4	1.4	0.7	0.7
147.5°	0.7	1.4	1.4	0.7	0.7
150°	0.7	1.4	1.4	0.7	0.7
152.5°	1.4	1.4	1.4	0.7	0.7
155°	1.4	1.4	1.4	0.7	0.7
157.5°	1.4	1.4	1.4	0.7	0.7
160°	1.4	1.4	1.4	0.7	0.7
162.5°	1.4	2.1	1.4	0.7	0.7
165°	1.4	2.1	1.4	0.7	0.7
167.5°	1.4	2.1	1.4	0.7	0.7
170°	1.4	2.1	1.4	0.7	0.7
172.5°	1.4	2.1	1.4	0.7	0.7
175°	2.1	2.1	1.4	0.7	0.7
177.5°	2.1	2.1	1.4	1.4	1.4
180°	1.4	1.4	1.4	1.4	1.4

(END OF REPORT)