

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: P685777

Luminaire Tested: **8CZL-24-UNV-N-LVR-L950-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685777
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-24-UNV-N-LVR-L950-CD-U
Description: METALUX CRUZE LINEAR 8FT LOUVER MODEL WITH NARROW LENS @90 CRI and 5000K
Light Source: (1176) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

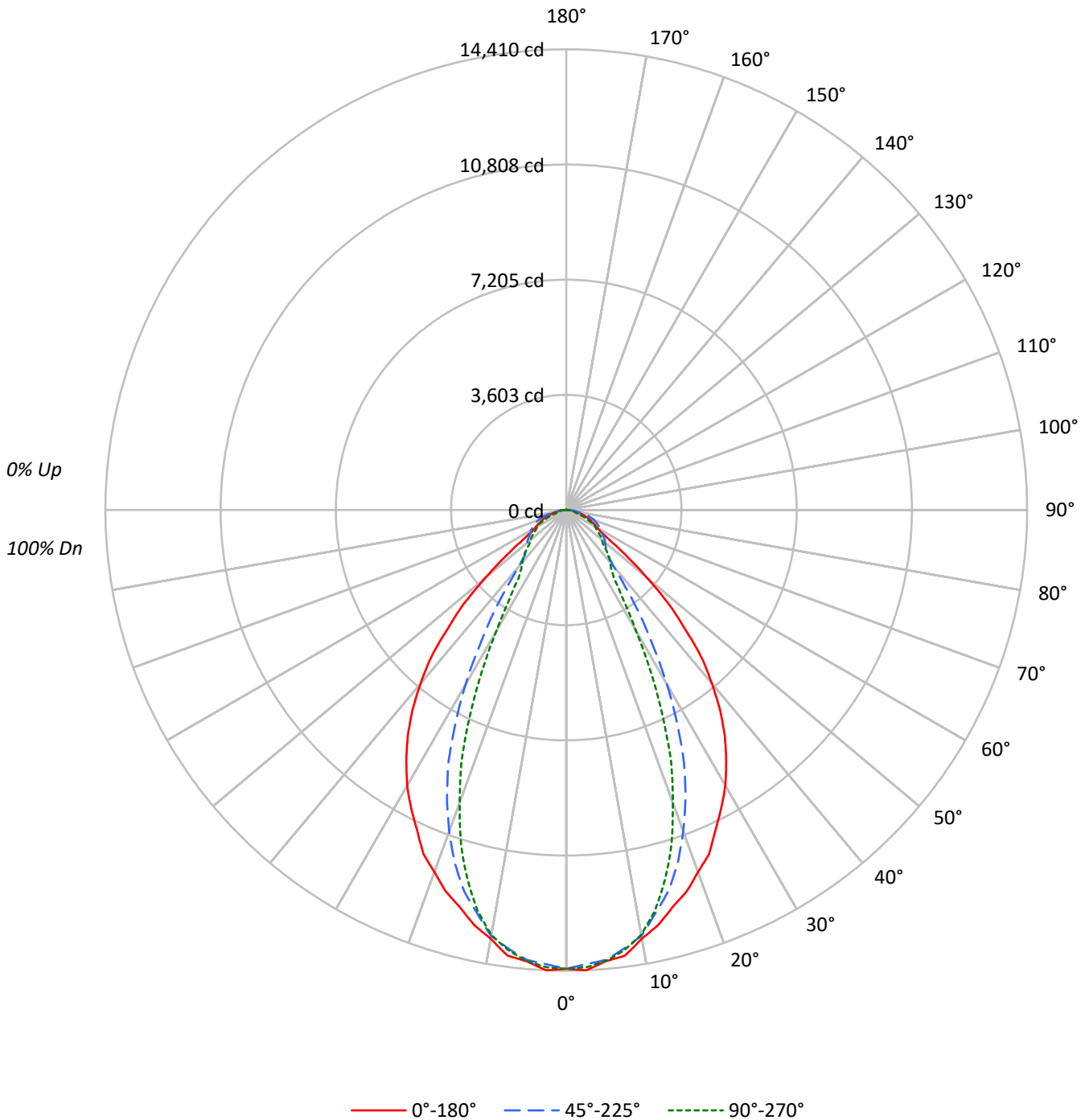
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16988.2 lumens
Efficiency: N/A
Efficacy: 110.3 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): 154
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°	23167	23167	23167
5°	22962	22897	22956
10°	22314	22177	22123
15°	21487	20629	19975
20°	20695	18377	16729
25°	19667	15517	12756
30°	18551	11738	8150
35°	17027	7958	5121
40°	14933	4848	4492
45°	11964	4039	4025
50°	8272	3991	3634
55°	4873	3956	3422
60°	3631	4110	3380
65°	3437	4138	2972
70°	3305	4413	2244
75°	3117	4429	1919
80°	2894	3674	2170
85°	2568	4459	2681



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1332.9	7.8
10°-20°	3451.2	20.3
20°-30°	4031.7	23.7
30°-40°	2991.1	17.6
40°-50°	1982.9	11.7
50°-60°	1315.1	7.7
60°-70°	981.2	5.8
70°-80°	579.1	3.4
80°-90°	243.9	1.4
90°-100°	52.7	0.3
100°-110°	7.1	0.0
110°-120°	3.6	0.0
120°-130°	3.3	0.0
130°-140°	3.2	0.0
140°-150°	3.3	0.0
150°-160°	2.9	0.0
160°-170°	2.1	0.0
170°-180°	0.8	0.0
0°-30°	8815.8	51.9
0°-40°	11806.9	69.5
0°-60°	15104.9	88.9
0°-90°	16909.1	99.5
90°-120°	63.4	0.4
90°-150°	73.2	0.4
90°-180°	79.0	0.5
0°-180°	16988.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14348	14348	14348	14348	14348	
5°	14167	14155	14127	14178	14164	1340
15°	12854	12701	12341	12129	11950	3626
25°	11039	10246	8710	7471	7160	5085
35°	8638	6400	4037	2729	2598	5362
45°	5240	3091	1769	1836	1763	4033
55°	1731	1521	1405	1357	1216	1703
65°	900	1005	1083	1059	778	897
75°	500	559	710	515	308	527
85°	139	169	241	320	145	150
90°	2	51	120	207	42	9
95°	1	8	47	103	22	1
105°	1	2	5	8	7	1
115°	1	2	4	5	5	1
125°	2	2	4	5	5	2
135°	2	4	4	5	5	2
145°	4	5	5	6	6	2
155°	5	6	6	7	7	2
165°	6	7	7	8	8	2
175°	6	7	8	10	11	1
180°	8	8	8	8	8	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14348.4	14348.4	14348.4	14348.4	14348.4
2.5°	14410.4	14332.6	14220.7	14321.6	14313.1
5°	14167.2	14155.1	14127.1	14178.2	14163.6
7.5°	14057.8	13992.2	13836.6	13956.9	13888.9
10°	13610.5	13533.9	13526.6	13502.3	13493.8
12.5°	13293.2	13200.8	12905.4	12889.6	12823.9
15°	12854.3	12701.2	12341.3	12128.6	11949.9
17.5°	12514.0	12180.9	11580.3	11184.0	10954.3
20°	12044.7	11677.6	10695.3	10003.6	9736.2
22.5°	11658.1	11007.8	9744.7	8766.1	8582.5
25°	11039.4	10245.5	8710.2	7471.4	7160.2
27.5°	10502.0	9406.7	7489.7	6130.6	5748.8
30°	9950.1	8467.0	6295.9	4815.2	4371.5
32.5°	9307.1	7520.0	5066.9	3612.9	3292.0
35°	8638.4	6400.4	4037.2	2729.1	2597.9
37.5°	7901.8	5393.9	3034.3	2279.4	2301.2
40°	7084.8	4516.2	2300.0	2089.7	2131.0
42.5°	6270.4	3777.0	1913.4	1965.7	1977.9
45°	5239.5	3091.4	1768.8	1835.6	1762.7
47.5°	4338.7	2526.1	1666.7	1659.4	1556.0
50°	3293.2	2059.3	1588.9	1501.3	1446.6
52.5°	2438.6	1737.2	1514.7	1418.7	1362.7
55°	1731.1	1520.8	1405.3	1356.7	1215.7
57.5°	1300.8	1367.6	1321.4	1212.0	1113.5
60°	1124.5	1232.7	1272.8	1142.7	1046.7
62.5°	1015.1	1117.2	1193.8	1101.4	957.9
65°	899.6	1005.3	1083.1	1058.8	778.0
67.5°	798.7	916.6	1012.6	908.1	635.8
70°	700.2	809.6	934.8	770.7	475.3
72.5°	594.5	677.1	827.9	599.3	346.5
75°	499.6	559.2	709.9	515.4	307.6
77.5°	400.0	449.8	486.3	469.2	271.1
80°	311.2	361.0	395.1	426.7	233.4
82.5°	226.1	258.9	313.6	378.1	194.5
85°	138.6	169.0	240.7	319.7	144.7
87.5°	59.6	103.3	176.3	265.0	94.8
90°	2.4	51.1	120.3	206.7	42.5
92.5°	1.2	21.9	77.8	152.0	28.0
95°	1.2	8.5	47.4	103.3	21.9
97.5°	1.2	3.6	24.3	66.9	15.8
100°	1.2	2.4	13.4	38.9	10.9
102.5°	1.2	2.4	6.1	19.5	8.5
105°	1.2	2.4	4.9	8.5	7.3
107.5°	1.2	2.4	3.6	6.1	6.1
110°	1.2	2.4	3.6	6.1	6.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	2.4	3.6	6.1	6.1
115°	1.2	2.4	3.6	4.9	4.9
117.5°	1.2	2.4	3.6	4.9	4.9
120°	1.2	2.4	3.6	4.9	4.9
122.5°	1.2	2.4	3.6	4.9	4.9
125°	2.4	2.4	3.6	4.9	4.9
127.5°	2.4	3.6	3.6	4.9	4.9
130°	2.4	3.6	3.6	4.9	4.9
132.5°	2.4	3.6	3.6	4.9	4.9
135°	2.4	3.6	3.6	4.9	4.9
137.5°	2.4	3.6	4.9	4.9	4.9
140°	3.6	4.9	4.9	4.9	4.9
142.5°	3.6	4.9	4.9	6.1	4.9
145°	3.6	4.9	4.9	6.1	6.1
147.5°	3.6	4.9	6.1	6.1	6.1
150°	3.6	4.9	6.1	7.3	7.3
152.5°	4.9	4.9	6.1	7.3	7.3
155°	4.9	6.1	6.1	7.3	7.3
157.5°	4.9	6.1	6.1	7.3	8.5
160°	4.9	6.1	7.3	8.5	8.5
162.5°	4.9	6.1	7.3	8.5	8.5
165°	6.1	7.3	7.3	8.5	8.5
167.5°	6.1	7.3	8.5	8.5	9.7
170°	6.1	7.3	8.5	9.7	9.7
172.5°	6.1	7.3	8.5	9.7	9.7
175°	6.1	7.3	8.5	9.7	10.9
177.5°	6.1	7.3	8.5	9.7	10.9
180°	8.5	8.5	8.5	8.5	8.5

(END OF REPORT)