

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: P685776

Luminaire Tested: **8CZL-18-UNV-N-LVR-L950-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685776
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-18-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

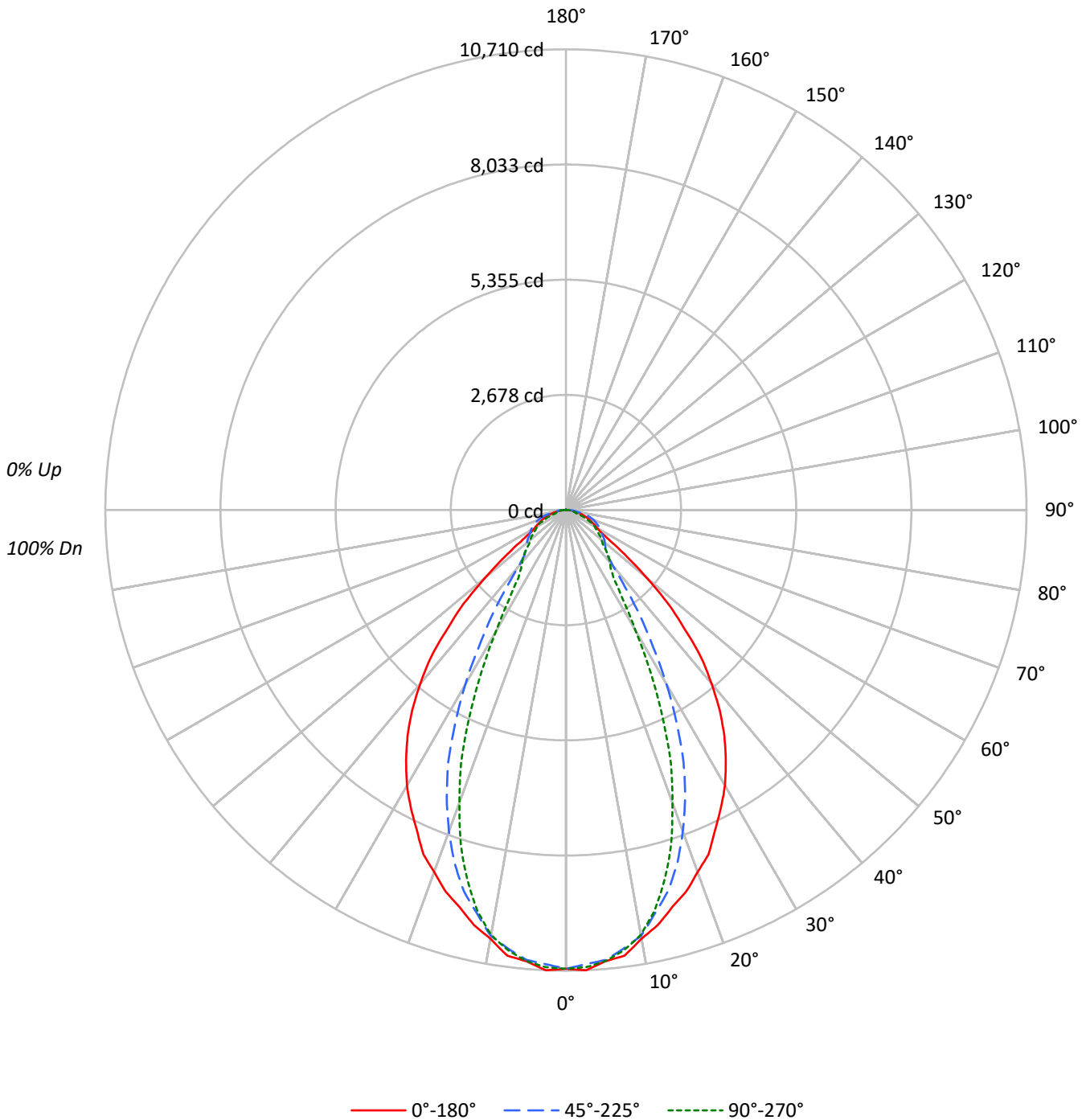
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12626.1 lumens
Efficiency: N/A
Efficacy: 115.8 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): 109
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	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	93	92	90	88
2	103	97	92	87	101	95	90	86	92	88	84	88	85	82	86	83	80	86	83	80	78
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	79	75	72	70
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	73	69	65	63
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	68	63	59	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	63	58	55	53
7	75	64	57	51	73	63	56	51	62	55	51	60	55	51	59	54	50	59	54	50	49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	55	50	47	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	43	52	47	43	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17218	17218	17218
5°	17066	17018	17062
10°	16585	16483	16443
15°	15970	15332	14846
20°	15381	13658	12434
25°	14617	11533	9481
30°	13788	8724	6057
35°	12655	5914	3806
40°	11099	3603	3338
45°	8892	3002	2991
50°	6148	2966	2701
55°	3622	2940	2543
60°	2699	3055	2512
65°	2554	3075	2209
70°	2457	3280	1668
75°	2316	3292	1426
80°	2151	2730	1613
85°	1908	3314	1991



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	990.6	7.8
10°-20°	2565.0	20.3
20°-30°	2996.5	23.7
30°-40°	2223.1	17.6
40°-50°	1473.8	11.7
50°-60°	977.4	7.7
60°-70°	729.3	5.8
70°-80°	430.4	3.4
80°-90°	181.3	1.4
90°-100°	39.1	0.3
100°-110°	5.3	0.0
110°-120°	2.7	0.0
120°-130°	2.5	0.0
130°-140°	2.4	0.0
140°-150°	2.4	0.0
150°-160°	2.2	0.0
160°-170°	1.6	0.0
170°-180°	0.6	0.0
0°-30°	6552.2	51.9
0°-40°	8775.3	69.5
0°-60°	11226.5	88.9
0°-90°	12567.4	99.5
90°-120°	47.1	0.4
90°-150°	54.4	0.4
90°-180°	59.0	0.5
0°-180°	12626.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10664	10664	10664	10664	10664	
5°	10530	10520	10500	10538	10527	996
15°	9554	9440	9172	9014	8882	2695
25°	8205	7615	6474	5553	5322	3779
35°	6420	4757	3001	2028	1931	3985
45°	3894	2298	1315	1364	1310	2997
55°	1287	1130	1044	1008	904	1266
65°	669	747	805	787	578	667
75°	371	416	528	383	229	392
85°	103	126	179	238	108	111
90°	2	38	89	154	32	7
95°	1	6	35	77	16	1
105°	1	2	4	6	5	1
115°	1	2	3	4	4	1
125°	2	2	3	4	4	1
135°	2	3	3	4	4	1
145°	3	4	4	4	4	2
155°	4	4	4	5	5	2
165°	4	5	5	6	6	1
175°	4	5	6	7	8	0
180°	6	6	6	6	6	



TEST NUMBER: P685776

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10664.2	10664.2	10664.2	10664.2	10664.2
2.5°	10710.3	10652.5	10569.3	10644.3	10638.0
5°	10529.6	10520.5	10499.8	10537.7	10526.9
7.5°	10448.3	10399.5	10283.8	10373.3	10322.7
10°	10115.8	10058.9	10053.4	10035.4	10029.0
12.5°	9880.0	9811.3	9591.7	9580.0	9531.2
15°	9553.8	9439.9	9172.5	9014.4	8881.6
17.5°	9300.8	9053.2	8606.9	8312.4	8141.6
20°	8952.0	8679.2	7949.1	7435.0	7236.3
22.5°	8664.7	8181.3	7242.6	6515.3	6378.8
25°	8204.8	7614.8	6473.7	5553.0	5321.7
27.5°	7805.5	6991.4	5566.6	4556.4	4272.7
30°	7395.3	6293.0	4679.3	3578.8	3249.0
32.5°	6917.3	5589.2	3765.9	2685.3	2446.7
35°	6420.4	4757.0	3000.6	2028.4	1930.8
37.5°	5872.9	4008.9	2255.2	1694.1	1710.4
40°	5265.7	3356.6	1709.5	1553.1	1583.9
42.5°	4660.3	2807.2	1422.1	1461.0	1470.0
45°	3894.2	2297.6	1314.6	1364.3	1310.1
47.5°	3224.7	1877.5	1238.7	1233.3	1156.5
50°	2447.6	1530.6	1180.9	1115.8	1075.2
52.5°	1812.5	1291.1	1125.8	1054.4	1012.8
55°	1286.6	1130.3	1044.5	1008.3	903.5
57.5°	966.8	1016.5	982.1	900.8	827.6
60°	835.8	916.2	946.0	849.3	777.9
62.5°	754.4	830.3	887.3	818.6	712.0
65°	668.6	747.2	805.0	787.0	578.3
67.5°	593.6	681.3	752.6	674.9	472.5
70°	520.4	601.7	694.8	572.8	353.3
72.5°	441.8	503.3	615.3	445.4	257.5
75°	371.3	415.6	527.7	383.1	228.6
77.5°	297.3	334.3	361.4	348.8	201.5
80°	231.3	268.3	293.6	317.1	173.5
82.5°	168.1	192.4	233.1	281.0	144.6
85°	103.0	125.6	178.9	237.6	107.5
87.5°	44.3	76.8	131.0	197.0	70.5
90°	1.8	37.9	89.4	153.6	31.6
92.5°	0.9	16.3	57.8	112.9	20.8
95°	0.9	6.3	35.2	76.8	16.3
97.5°	0.9	2.7	18.1	49.7	11.7
100°	0.9	1.8	9.9	28.9	8.1
102.5°	0.9	1.8	4.5	14.5	6.3
105°	0.9	1.8	3.6	6.3	5.4
107.5°	0.9	1.8	2.7	4.5	4.5
110°	0.9	1.8	2.7	4.5	4.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	1.8	2.7	4.5	4.5
115°	0.9	1.8	2.7	3.6	3.6
117.5°	0.9	1.8	2.7	3.6	3.6
120°	0.9	1.8	2.7	3.6	3.6
122.5°	0.9	1.8	2.7	3.6	3.6
125°	1.8	1.8	2.7	3.6	3.6
127.5°	1.8	2.7	2.7	3.6	3.6
130°	1.8	2.7	2.7	3.6	3.6
132.5°	1.8	2.7	2.7	3.6	3.6
135°	1.8	2.7	2.7	3.6	3.6
137.5°	1.8	2.7	3.6	3.6	3.6
140°	2.7	3.6	3.6	3.6	3.6
142.5°	2.7	3.6	3.6	4.5	3.6
145°	2.7	3.6	3.6	4.5	4.5
147.5°	2.7	3.6	4.5	4.5	4.5
150°	2.7	3.6	4.5	5.4	5.4
152.5°	3.6	3.6	4.5	5.4	5.4
155°	3.6	4.5	4.5	5.4	5.4
157.5°	3.6	4.5	4.5	5.4	6.3
160°	3.6	4.5	5.4	6.3	6.3
162.5°	3.6	4.5	5.4	6.3	6.3
165°	4.5	5.4	5.4	6.3	6.3
167.5°	4.5	5.4	6.3	6.3	7.2
170°	4.5	5.4	6.3	7.2	7.2
172.5°	4.5	5.4	6.3	7.2	7.2
175°	4.5	5.4	6.3	7.2	8.1
177.5°	4.5	5.4	6.3	7.2	8.1
180°	6.3	6.3	6.3	6.3	6.3

(END OF REPORT)