

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: P685718

Luminaire Tested: **8CZL-32-UNV-LVR-L950-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685718
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-32-UNV-LVR-L950-CD-U
Description: METALUX CRUZE LINEAR 8FT LOUVER MODEL @90 CRI and 5000K
Light Source: (1176) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

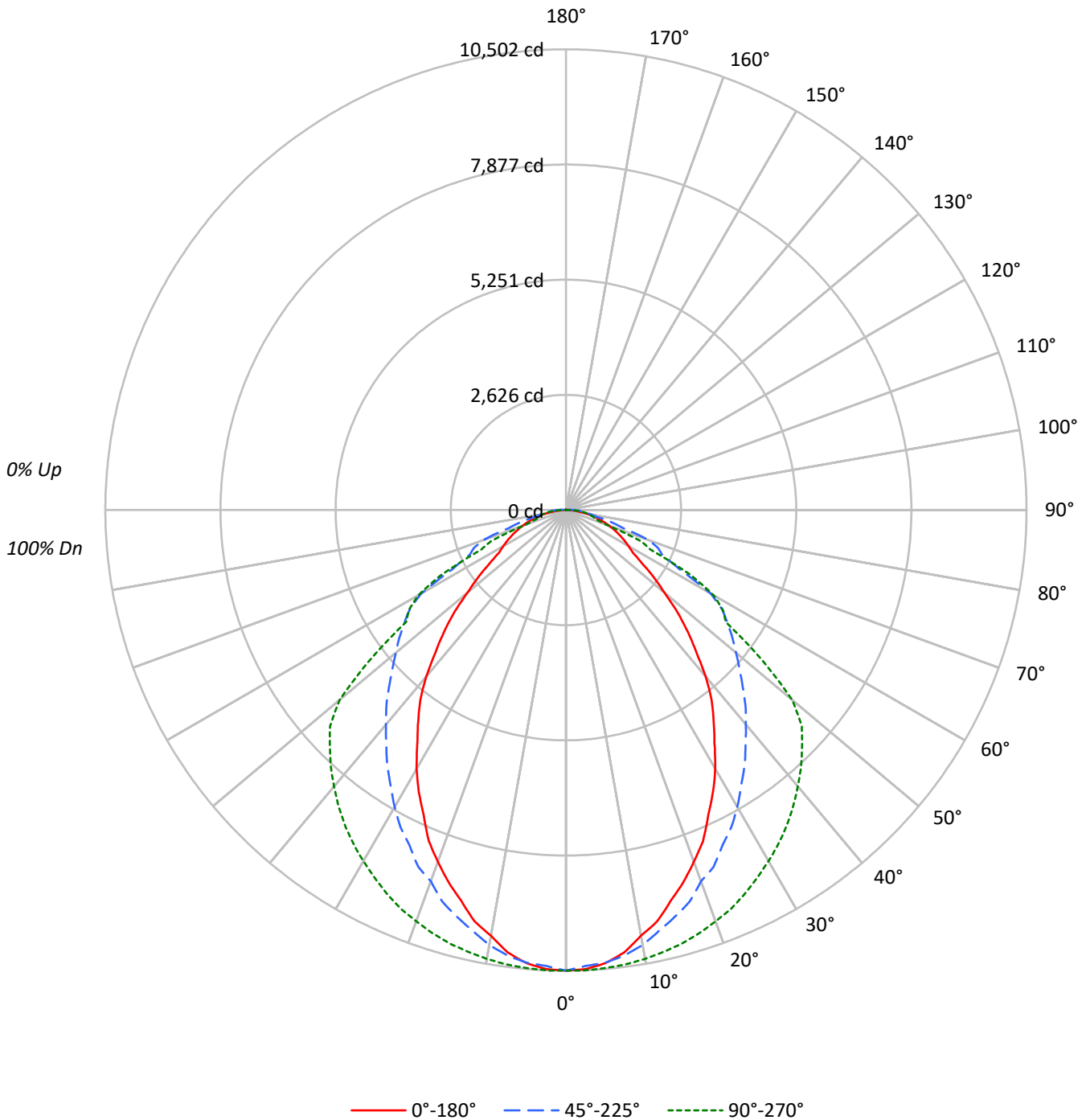
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23779.2 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.31 / 1.26
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

TEST NUMBER: P685718
CATALOG NUMBER: 8CZL-32-UNV-LVR-L950-CD-U

Luminous Intensity Polar Plot





TEST NUMBER: P685718
 CATALOG NUMBER: 8CZL-32-UNV-LVR-L950-CD-U

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	100	100	100	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85	85	85	85
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73	73	73	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63	63	63	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54	54	54	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	49	47	47	47	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42	42	42	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37	37	37	37
8	63	50	42	36	61	49	42	36	48	41	36	47	40	36	46	40	35	34	34	34	34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30	30	30	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	34	29	28	28	28	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16953	16953	16953
5°	16807	16783	16984
10°	16154	16509	17033
15°	15420	16047	17102
20°	14662	15478	17142
25°	13674	15031	17198
30°	12696	14569	17226
35°	11574	13998	17305
40°	10442	13453	17336
45°	8981	13021	17381
50°	7340	12714	16925
55°	5977	12665	12518
60°	5329	12312	12559
65°	5152	9239	8099
70°	4950	9469	4604
75°	4771	6673	4110
80°	4351	5428	4897
85°	3898	6767	6102



TEST NUMBER: P685718
 CATALOG NUMBER: 8CZL-32-UNV-LVR-L950-CD-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	983.5	4.1
10°-20°	2726.5	11.5
20°-30°	3944.5	16.6
30°-40°	4502.2	18.9
40°-50°	4423.8	18.6
50°-60°	3528.6	14.8
60°-70°	2222.6	9.3
70°-80°	984.7	4.1
80°-90°	377.6	1.6
90°-100°	74.9	0.3
100°-110°	5.0	0.0
110°-120°	0.6	0.0
120°-130°	0.7	0.0
130°-140°	1.1	0.0
140°-150°	1.0	0.0
150°-160°	0.8	0.0
160°-170°	0.8	0.0
170°-180°	0.3	0.0
0°-30°	7654.5	32.2
0°-40°	12156.7	51.1
0°-60°	20109.1	84.6
0°-90°	23693.9	99.6
90°-120°	80.5	0.3
90°-150°	83.3	0.4
90°-180°	85.0	0.4
0°-180°	23779.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10500	10500	10500	10500	10500	
5°	10370	10392	10355	10441	10479	974
15°	9225	9316	9600	10050	10231	2597
25°	7676	7924	8437	9210	9654	3537
35°	5872	6228	7102	8149	8780	3671
45°	3933	4506	5703	6979	7612	3023
55°	2123	2875	4499	4851	4447	1952
65°	1349	1836	2418	2576	2120	1336
75°	765	884	1070	810	659	802
85°	210	256	365	471	329	222
90°	2	88	192	280	54	12
95°	2	13	80	137	18	1
105°	2	2	2	5	0	2
115°	2	2	0	0	0	2
125°	2	3	0	0	0	1
135°	2	3	2	0	0	1
145°	3	3	2	0	0	2
155°	3	3	2	0	0	2
165°	5	5	3	2	0	1
175°	5	5	3	2	2	0
180°	3	3	3	3	3	



TEST NUMBER: P685718

CATALOG NUMBER: 8CZL-32-UNV-LVR-L950-CD-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10500.1	10500.1	10500.1	10500.1	10500.1
2.5°	10472.3	10465.8	10402.2	10491.9	10501.7
5°	10369.6	10392.4	10354.9	10441.4	10478.9
7.5°	10172.3	10196.8	10240.8	10399.0	10444.6
10°	9852.7	9914.6	10069.6	10291.3	10389.2
12.5°	9608.1	9684.7	9823.3	10200.0	10312.5
15°	9224.9	9316.2	9599.9	10050.0	10231.0
17.5°	8898.7	9065.1	9366.7	9860.8	10113.6
20°	8533.4	8667.2	9008.0	9674.9	9976.6
22.5°	8168.2	8337.8	8802.5	9427.1	9838.0
25°	7675.7	7923.6	8437.2	9210.2	9653.7
27.5°	7258.2	7571.3	8161.6	8954.2	9448.3
30°	6809.8	7052.8	7814.3	8693.3	9239.5
32.5°	6304.3	6685.9	7439.2	8394.8	9021.0
35°	5872.1	6227.6	7101.7	8148.6	8779.7
37.5°	5454.7	5789.0	6728.3	7869.8	8512.2
40°	4954.1	5394.4	6382.6	7551.8	8225.2
42.5°	4399.6	4939.4	6061.3	7251.7	7933.3
45°	3933.2	4505.6	5702.6	6979.4	7612.1
47.5°	3448.9	4052.3	5366.6	6648.4	7294.1
50°	2922.2	3656.0	5061.7	6341.8	6738.0
52.5°	2537.4	3243.5	4787.7	5787.3	5679.7
55°	2123.2	2874.9	4499.1	4851.3	4446.9
57.5°	1808.4	2542.3	4228.4	3809.3	4244.7
60°	1650.3	2276.5	3812.6	3626.7	3889.2
62.5°	1501.9	2043.3	2915.7	3401.6	3199.4
65°	1348.6	1836.2	2418.3	2576.5	2119.9
67.5°	1200.2	1656.8	2279.7	1924.2	1846.0
70°	1048.5	1518.2	2005.8	1640.5	975.2
72.5°	905.0	1358.4	1371.4	908.3	724.0
75°	764.8	883.8	1069.7	810.5	658.8
77.5°	611.5	758.3	715.9	725.7	596.8
80°	468.0	521.8	583.8	649.0	526.7
82.5°	331.0	388.1	472.9	567.5	432.1
85°	210.4	256.0	365.3	471.3	329.4
87.5°	83.2	161.4	272.3	380.0	194.1
90°	1.6	88.1	192.4	280.5	53.8
92.5°	1.6	40.8	128.8	205.5	27.7
95°	1.6	13.0	79.9	137.0	17.9
97.5°	1.6	4.9	42.4	84.8	9.8
100°	1.6	1.6	17.9	45.7	4.9
102.5°	1.6	1.6	6.5	17.9	1.6
105°	1.6	1.6	1.6	4.9	0.0
107.5°	1.6	1.6	0.0	0.0	0.0
110°	1.6	1.6	0.0	0.0	0.0



TEST NUMBER: P685718
 CATALOG NUMBER: 8CZL-32-UNV-LVR-L950-CD-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	1.6	0.0	0.0	0.0
115°	1.6	1.6	0.0	0.0	0.0
117.5°	1.6	1.6	0.0	0.0	0.0
120°	1.6	1.6	0.0	0.0	0.0
122.5°	1.6	1.6	0.0	0.0	0.0
125°	1.6	3.3	0.0	0.0	0.0
127.5°	1.6	1.6	0.0	0.0	0.0
130°	1.6	3.3	1.6	0.0	0.0
132.5°	1.6	3.3	1.6	0.0	0.0
135°	1.6	3.3	1.6	0.0	0.0
137.5°	1.6	3.3	1.6	0.0	0.0
140°	3.3	3.3	1.6	0.0	0.0
142.5°	3.3	3.3	1.6	0.0	0.0
145°	3.3	3.3	1.6	0.0	0.0
147.5°	3.3	3.3	1.6	0.0	0.0
150°	3.3	3.3	1.6	0.0	0.0
152.5°	3.3	3.3	1.6	0.0	0.0
155°	3.3	3.3	1.6	0.0	0.0
157.5°	3.3	4.9	1.6	0.0	0.0
160°	4.9	4.9	1.6	0.0	0.0
162.5°	4.9	4.9	3.3	1.6	0.0
165°	4.9	4.9	3.3	1.6	0.0
167.5°	4.9	4.9	3.3	1.6	0.0
170°	4.9	4.9	3.3	1.6	1.6
172.5°	4.9	4.9	3.3	1.6	1.6
175°	4.9	4.9	3.3	1.6	1.6
177.5°	4.9	4.9	3.3	1.6	1.6
180°	3.3	3.3	3.3	3.3	3.3

(END OF REPORT)