

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: P685898

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

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685898
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-32-UNV-W-LVR-L950-CD-U
Description: METALUX CRUZE LINEAR 8FT LOUVER MODEL WITH WIDE LENS @90 CRI and 5000K
Light Source: (1176) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

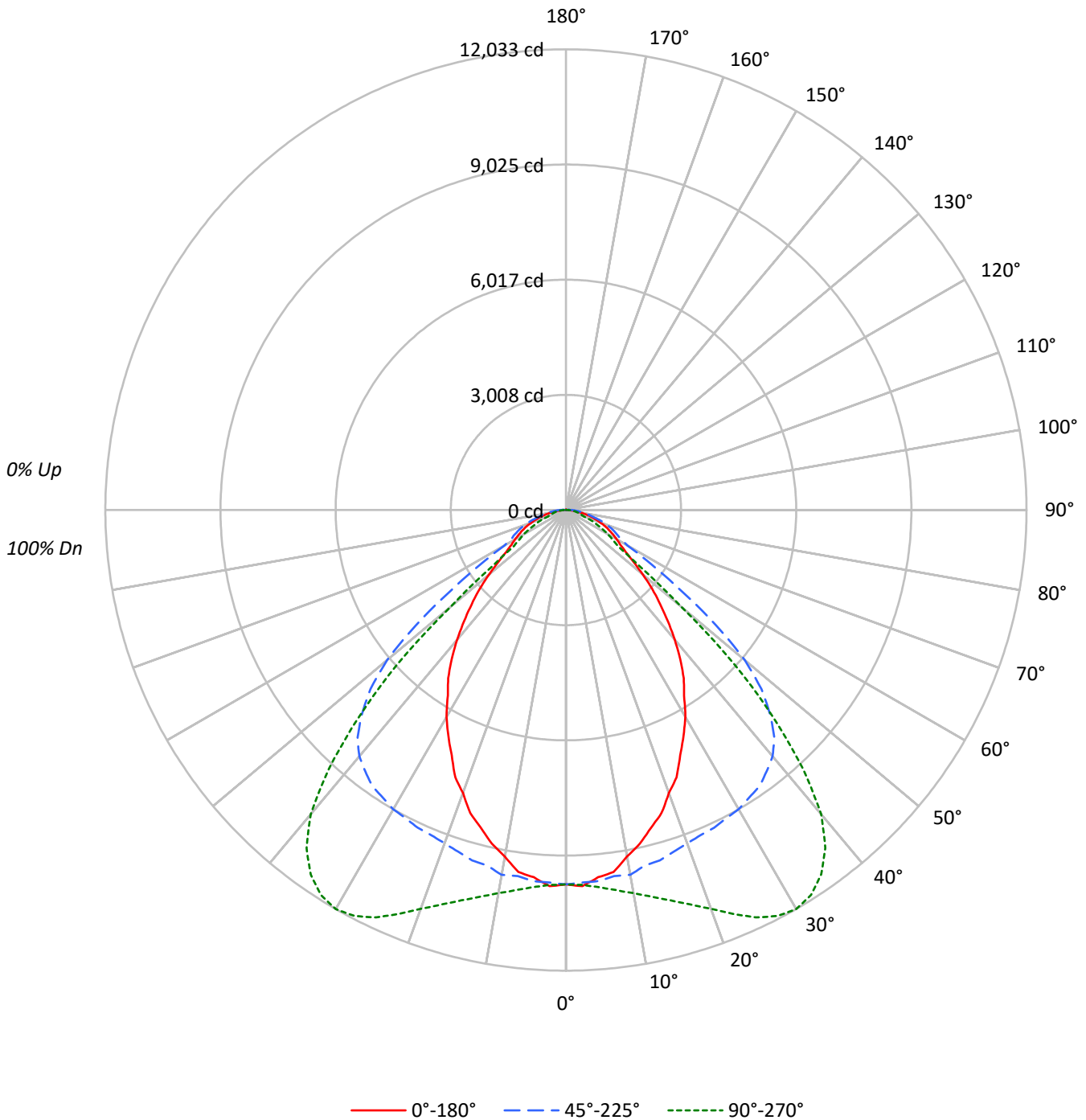
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23259.5 lumens
Efficiency: N/A
Efficacy: 112.9 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): 206
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°	15785	15785	15785
5°	15605	15766	16025
10°	15066	15863	16662
15°	14357	15832	17642
20°	13514	15918	19042
25°	12582	16310	20914
30°	11632	16825	22435
35°	10569	17370	22905
40°	9318	17698	21853
45°	7943	17214	17520
50°	6583	15308	9941
55°	5362	10342	4756
60°	4950	6014	4108
65°	4773	5532	3339
70°	4504	5427	2386
75°	4192	4954	2319
80°	3821	4868	2548
85°	2931	5830	2810



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	929.6	4.0
10°-20°	2698.4	11.6
20°-30°	4282.2	18.4
30°-40°	5348.4	23.0
40°-50°	4912.3	21.1
50°-60°	2621.6	11.3
60°-70°	1349.3	5.8
70°-80°	741.9	3.2
80°-90°	306.1	1.3
90°-100°	59.0	0.3
100°-110°	3.2	0.0
110°-120°	0.8	0.0
120°-130°	1.0	0.0
130°-140°	1.8	0.0
140°-150°	1.5	0.0
150°-160°	1.2	0.0
160°-170°	0.9	0.0
170°-180°	0.3	0.0
0°-30°	7910.1	34.0
0°-40°	13258.5	57.0
0°-60°	20792.4	89.4
0°-90°	23189.7	99.7
90°-120°	63.1	0.3
90°-150°	67.4	0.3
90°-180°	70.0	0.3
0°-180°	23259.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9776	9776	9776	9776	9776	
5°	9628	9652	9727	9877	9887	910
15°	8589	8870	9471	10243	10554	2415
25°	7063	7726	9155	10831	11740	3254
35°	5362	6352	8812	10735	11621	3329
45°	3478	5014	7539	7813	7673	2692
55°	1905	3415	3674	2058	1690	1759
65°	1249	1637	1448	1181	874	1234
75°	672	745	794	706	372	713
85°	158	207	315	414	152	181
90°	0	59	155	251	33	6
95°	0	6	59	116	15	0
105°	0	2	2	2	0	0
115°	0	2	2	0	0	0
125°	0	2	2	0	0	1
135°	2	3	3	2	2	1
145°	2	3	3	2	2	1
155°	3	3	3	2	2	1
165°	3	5	3	2	2	1
175°	5	5	3	2	2	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9776.3	9776.3	9776.3	9776.3	9776.3
2.5°	9833.4	9812.2	9742.1	9805.7	9800.8
5°	9627.9	9652.4	9727.4	9877.4	9887.2
7.5°	9536.6	9603.5	9645.9	9970.4	10012.8
10°	9189.2	9293.6	9675.2	10012.8	10162.8
12.5°	8928.3	9138.7	9508.9	10081.3	10342.2
15°	8589.1	8869.6	9471.4	10242.7	10554.2
17.5°	8300.5	8587.5	9357.2	10365.0	10800.4
20°	7865.1	8385.3	9264.3	10492.2	11082.5
22.5°	7553.6	8080.3	9192.5	10604.7	11416.8
25°	7062.8	7726.5	9155.0	10831.4	11739.7
27.5°	6651.8	7428.0	9071.8	10976.5	11953.4
30°	6239.2	7062.8	9024.5	11002.6	12033.3
32.5°	5741.9	6766.0	8905.5	10942.3	11919.1
35°	5361.9	6351.8	8812.5	10735.2	11620.7
37.5°	4898.8	6025.6	8608.7	10360.1	11131.5
40°	4421.0	5723.9	8396.7	9774.7	10368.3
42.5°	3938.2	5384.7	8057.5	8993.6	9174.6
45°	3478.4	5014.5	7538.9	7812.9	7672.7
47.5°	3065.8	4616.6	6925.8	6332.2	6002.8
50°	2620.6	4212.2	6094.1	4820.5	3957.8
52.5°	2219.4	3874.7	4949.3	3264.8	2462.4
55°	1904.7	3414.8	3674.1	2058.0	1689.5
57.5°	1681.3	3062.5	2651.6	1627.5	1446.5
60°	1532.9	2622.2	1862.3	1493.8	1272.0
62.5°	1386.1	2074.3	1593.2	1361.7	1069.8
65°	1249.2	1637.3	1448.1	1180.7	874.1
67.5°	1107.3	1329.1	1307.9	1071.4	728.9
70°	954.0	1092.6	1149.7	896.9	505.5
72.5°	817.0	916.5	978.4	766.5	428.9
75°	671.9	745.3	794.2	706.1	371.8
77.5°	533.3	600.1	647.4	639.3	326.1
80°	410.9	455.0	523.5	572.4	274.0
82.5°	280.5	313.1	412.6	494.1	213.6
85°	158.2	207.1	314.7	414.2	151.7
87.5°	45.7	122.3	228.3	332.7	88.1
90°	0.0	58.7	154.9	251.1	32.6
92.5°	0.0	22.8	101.1	176.1	22.8
95°	0.0	6.5	58.7	115.8	14.7
97.5°	0.0	1.6	27.7	68.5	6.5
100°	0.0	1.6	9.8	32.6	1.6
102.5°	0.0	1.6	3.3	11.4	0.0
105°	0.0	1.6	1.6	1.6	0.0
107.5°	0.0	1.6	1.6	0.0	0.0
110°	0.0	1.6	1.6	0.0	0.0



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CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)