

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: P685478

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

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685478
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-32-UNV-M-L950-CD-U
Description: METALUX CRUZE LINEAR 8FT MEDIUM LENS MODEL @90 CRI and 5000K
Light Source: (1176) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

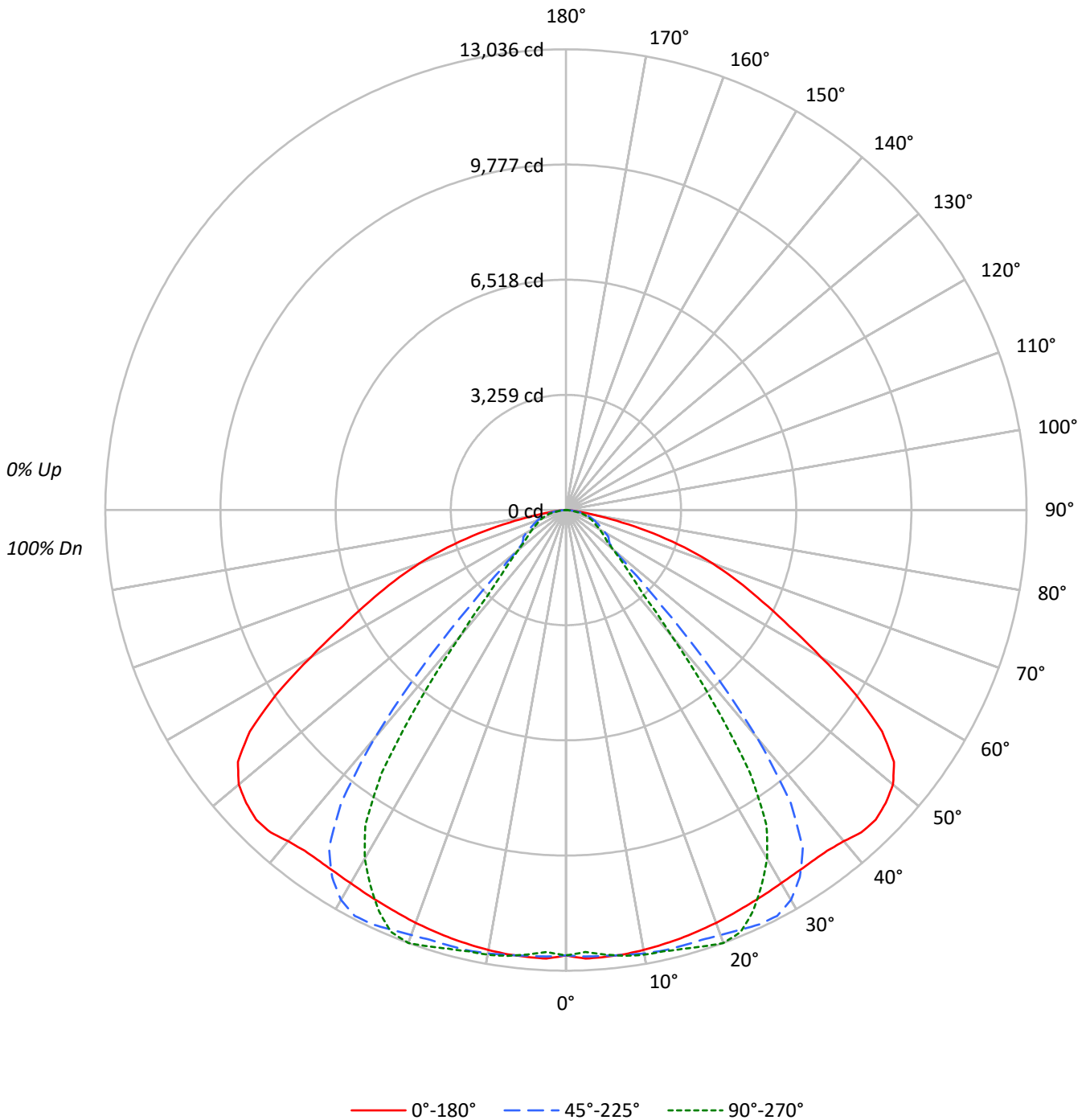
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27229.2 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Spacing Criteria (0/90/45): 1.48 / 1.28 / 1.22
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

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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	96	90	86	100	94	89	85	91	87	83	88	84	81	85	82	79	85	82	79	77
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	77	73	70	68
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	70	66	62	60
5	82	71	63	57	80	70	63	57	68	61	56	66	60	56	64	59	55	64	59	55	53
6	76	65	57	51	75	64	56	51	62	55	51	61	55	50	59	54	50	59	54	50	48
7	71	59	51	46	70	59	51	46	57	50	46	56	50	45	54	49	45	54	49	45	43
8	67	55	47	42	65	54	47	41	53	46	41	51	45	41	50	45	41	50	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	47	41	37	36
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20350	20350	20350
5°	20577	20519	20461
10°	20727	20888	20947
15°	20973	21332	21481
20°	21358	21984	22399
25°	21906	23054	22315
30°	22730	23748	21228
35°	23925	23037	17926
40°	25785	17766	9804
45°	28308	8734	5859
50°	30354	4564	4369
55°	30741	4166	3771
60°	26959	4153	3555
65°	23460	3990	3443
70°	20819	4042	3465
75°	15971	4151	3518
80°	8128	4217	2913
85°	3207	2377	830



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1207.6	4.4
10°-20°	3599.2	13.2
20°-30°	5808.7	21.3
30°-40°	6802.9	25.0
40°-50°	4631.2	17.0
50°-60°	2681.6	9.8
60°-70°	1533.1	5.6
70°-80°	789.1	2.9
80°-90°	175.7	0.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	10615.6	39.0
0°-40°	17418.5	64.0
0°-60°	24731.3	90.8
0°-90°	27229.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27229.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12604	12604	12604	12604	12604	
5°	12696	12571	12660	12645	12624	1210
15°	12547	12528	12762	12794	12851	3552
25°	12296	12469	12941	12741	12526	5691
35°	12138	12738	11687	9856	9094	7642
45°	12398	9224	3825	2576	2566	9524
55°	10921	3166	1480	1378	1340	9515
65°	6141	1129	1044	922	901	6157
75°	2560	697	665	580	564	2721
85°	173	211	128	60	45	293
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	12603.5	12603.5	12603.5	12603.5	12603.5	12603.5	12603.5	12603.5	12603.5	12603.5	12603.5
2.5°	12704.9	12669.1	12597.5	12567.7	12567.7	12645.2	12657.2	12609.4	12600.5	12558.7	12519.9
5°	12696.0	12660.2	12591.5	12564.7	12573.6	12660.2	12681.0	12642.3	12654.2	12642.3	12624.4
7.5°	12678.1	12639.3	12576.6	12558.7	12585.6	12696.0	12731.8	12710.9	12737.7	12731.8	12725.8
10°	12642.3	12612.4	12552.7	12549.8	12603.5	12740.7	12785.5	12758.6	12767.6	12764.6	12776.5
12.5°	12594.5	12567.7	12516.9	12543.8	12621.4	12767.6	12797.4	12755.6	12767.6	12770.6	12791.4
15°	12546.8	12514.0	12481.1	12543.8	12624.4	12761.6	12791.4	12785.5	12821.3	12824.3	12851.1
17.5°	12487.1	12466.2	12457.3	12540.8	12603.5	12755.6	12824.3	12860.1	12907.8	12919.7	12946.6
20°	12430.4	12412.5	12433.4	12525.9	12594.5	12794.4	12889.9	12943.6	12994.3	13009.3	13036.1
22.5°	12361.8	12349.8	12406.5	12505.0	12609.4	12854.1	12961.5	12967.5	12946.6	12907.8	12925.7
25°	12296.1	12296.1	12379.7	12499.0	12654.2	12940.6	12949.6	12779.5	12627.3	12525.9	12525.9
27.5°	12242.4	12254.4	12358.8	12525.9	12740.7	12946.6	12698.9	12361.8	12138.0	11991.8	11982.8
30°	12191.7	12212.6	12358.8	12600.5	12803.4	12737.7	12257.3	11848.6	11538.3	11398.0	11386.1
32.5°	12155.9	12188.7	12412.5	12713.9	12728.8	12317.0	11690.4	11174.2	10807.2	10598.4	10562.6
35°	12138.0	12176.8	12514.0	12812.3	12427.4	11687.4	10798.3	10001.6	9419.8	9151.2	9094.5
37.5°	12149.9	12218.6	12654.2	12728.8	11672.5	10449.2	9172.1	8029.3	7229.7	6976.1	6800.0
40°	12233.5	12349.8	12764.6	12048.5	10088.1	8429.2	6737.4	5508.0	4956.1	4774.0	4651.7
42.5°	12373.7	12490.1	12475.2	10491.0	7880.1	5988.4	4341.4	3604.4	3335.9	3306.0	3249.3
45°	12397.6	12442.3	11538.3	8453.0	5731.8	3825.2	2795.8	2578.0	2572.0	2592.9	2566.0
47.5°	12272.3	12185.7	10186.6	6465.8	3947.5	2473.5	2103.6	2139.4	2157.3	2142.4	2121.5
50°	12084.3	11765.0	8670.8	4753.2	2631.7	1817.1	1835.0	1867.8	1805.2	1763.4	1739.5
52.5°	11702.4	11081.7	6988.0	3368.7	1820.1	1551.6	1694.8	1599.3	1509.8	1485.9	1482.9
55°	10920.6	10067.3	5376.8	2428.8	1390.4	1480.0	1506.8	1384.5	1357.6	1345.7	1339.7
57.5°	9730.1	8805.1	4043.0	1754.5	1220.4	1429.2	1309.9	1262.1	1235.3	1226.3	1217.4
60°	8348.6	7393.8	3013.6	1289.0	1184.6	1286.0	1187.5	1142.8	1112.9	1101.0	1101.0
62.5°	7125.3	6119.7	2228.9	1047.3	1175.6	1160.7	1071.2	1023.4	1005.5	999.6	993.6
65°	6140.6	4923.2	1608.3	969.7	1098.0	1044.3	957.8	925.0	913.0	901.1	901.1
67.5°	5263.4	3855.0	1184.6	951.8	1008.5	939.9	874.2	847.4	832.5	829.5	826.5
70°	4410.0	2840.6	901.1	930.9	957.8	856.3	793.7	760.9	743.0	734.0	734.0
72.5°	3511.9	1948.4	719.1	856.3	877.2	757.9	695.2	671.3	656.4	647.5	644.5
75°	2560.1	1223.3	632.6	719.1	754.9	665.4	602.7	581.8	575.9	566.9	563.9
77.5°	1629.1	731.0	540.1	587.8	617.6	560.9	513.2	486.4	483.4	474.4	471.4
80°	874.2	468.5	432.6	462.5	480.4	453.5	396.8	343.1	328.2	316.3	313.3
82.5°	405.8	298.4	322.2	349.1	358.1	289.4	238.7	214.8	199.9	185.0	176.0
85°	173.1	161.1	199.9	214.8	176.0	128.3	83.5	62.7	50.7	47.7	44.8
87.5°	62.7	62.7	74.6	50.7	29.8	23.9	23.9	20.9	17.9	14.9	14.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)