

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: P685518

Luminaire Tested: **8CZL-32-UNV-W-L935-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685518
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-32-UNV-W-L935-CD-U
Description: METALUX CRUZE LINEAR 8FT WIDE LENS MODEL @90 CRI and 3500K
Light Source: (1176) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

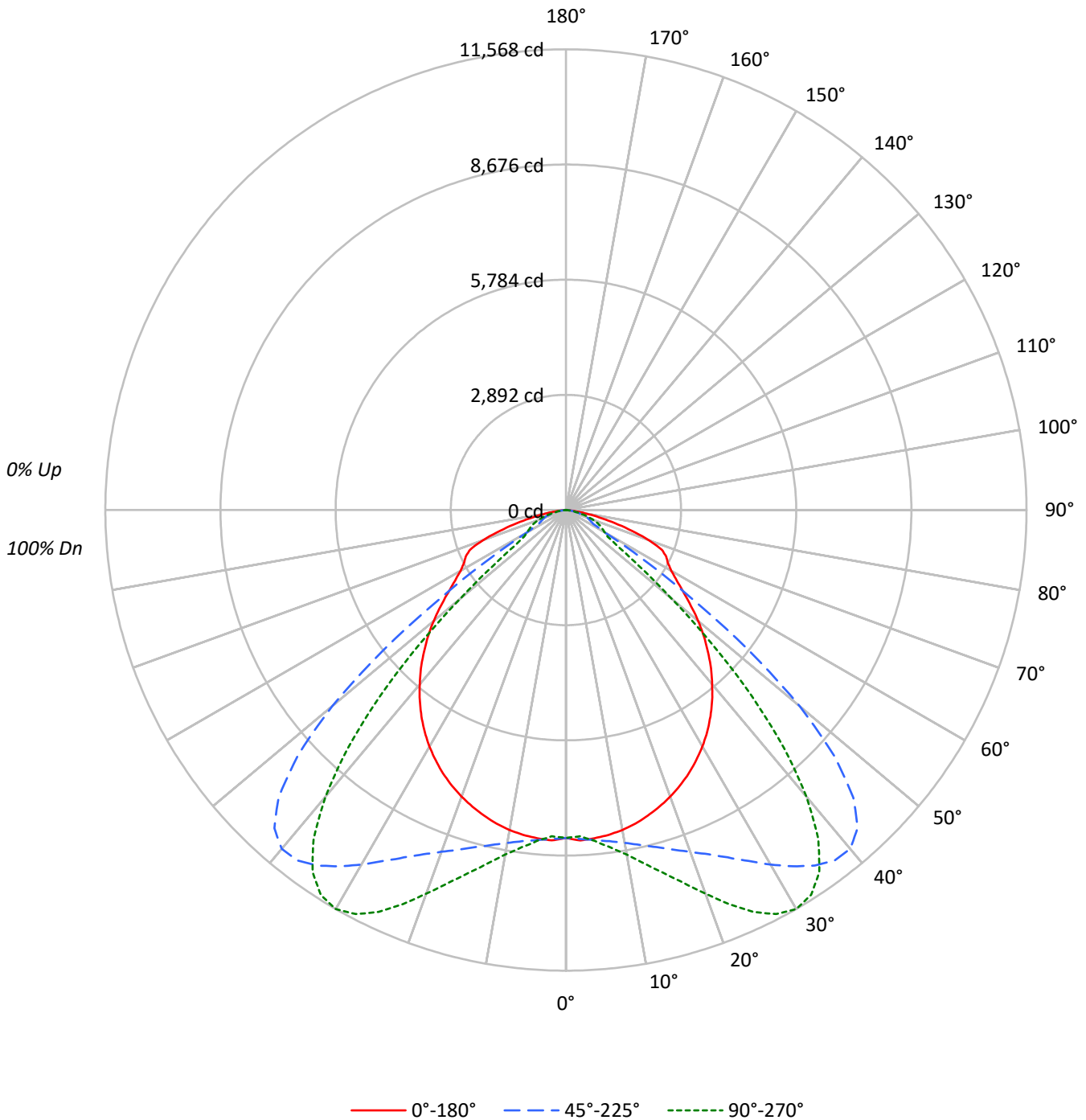
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26331.9 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.69 / 1.65
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				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	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	89	89	89	87
2	102	94	88	83	99	93	87	82	89	85	81	86	82	79	83	80	77	77	77	77	75
3	93	84	77	71	91	82	76	70	79	74	69	77	72	68	74	70	67	67	67	67	65
4	86	75	67	61	84	73	66	60	71	65	59	69	63	59	67	62	58	58	58	58	56
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	51	51	51	49
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	55	49	45	45	45	45	43
7	68	55	46	40	66	54	46	40	52	45	40	51	45	40	50	44	39	39	39	39	38
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	35	35	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	32	32	32	30
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	29	29	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13293	13293	13293
5°	13409	13479	13520
10°	13376	13911	14400
15°	13279	14648	15763
20°	13163	15691	17609
25°	13005	17146	19834
30°	12783	19161	21568
35°	12470	21476	21865
40°	12038	23399	19809
45°	11518	23310	15034
50°	10894	19264	8665
55°	10154	10597	4456
60°	9855	3698	3633
65°	10620	2690	3642
70°	10487	2757	3514
75°	7930	2411	2822
80°	4791	1969	1996
85°	2386	1008	424



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	796.8	3.0
10°-20°	2477.8	9.4
20°-30°	4352.6	16.5
30°-40°	6046.9	23.0
40°-50°	6132.3	23.3
50°-60°	3935.3	14.9
60°-70°	1840.6	7.0
70°-80°	638.2	2.4
80°-90°	111.3	0.4
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°	7627.3	29.0
0°-40°	13674.2	51.9
0°-60°	23741.8	90.2
0°-90°	26331.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26331.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8233	8233	8233	8233	8233	
5°	8273	8215	8316	8343	8342	786
15°	7944	8133	8763	9233	9430	2241
25°	7300	8048	9625	10751	11133	3360
35°	6327	8116	10896	11271	11093	3951
45°	5044	8688	10209	7614	6584	3889
55°	3607	8973	3764	1812	1583	3255
65°	2780	2867	704	882	953	2704
75°	1271	439	386	445	452	1376
85°	129	116	54	31	23	195
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°	8233.3	8233.3	8233.3	8233.3	8233.3	8233.3	8233.3	8233.3	8233.3	8233.3	8233.3
2.5°	8304.8	8279.1	8236.1	8218.9	8227.5	8270.5	8284.8	8253.3	8244.7	8221.8	8198.9
5°	8273.3	8250.4	8218.9	8213.2	8244.7	8316.3	8347.8	8339.2	8353.5	8356.4	8342.0
7.5°	8227.5	8207.5	8181.7	8207.5	8273.3	8387.8	8459.4	8482.3	8533.8	8545.3	8542.4
10°	8158.8	8141.7	8133.1	8198.9	8313.4	8485.2	8611.1	8674.1	8748.6	8774.3	8782.9
12.5°	8067.2	8050.0	8072.9	8187.5	8367.8	8614.0	8800.1	8911.7	9017.7	9072.0	9089.2
15°	7944.1	7938.4	7995.7	8178.9	8436.5	8762.9	9020.5	9195.1	9346.9	9407.0	9429.9
17.5°	7809.6	7812.4	7915.5	8176.0	8519.5	8937.5	9266.7	9515.8	9701.8	9787.7	9813.5
20°	7660.7	7669.3	7823.9	8173.1	8622.6	9132.2	9538.7	9865.0	10096.9	10211.4	10248.6
22.5°	7486.1	7503.3	7723.7	8176.0	8731.4	9355.5	9859.3	10248.6	10526.3	10663.7	10709.5
25°	7300.0	7325.8	7620.6	8190.3	8868.8	9624.6	10225.7	10680.9	10961.5	11081.7	11133.2
27.5°	7085.3	7128.2	7509.0	8210.4	9032.0	9936.6	10600.8	11038.8	11299.3	11390.9	11436.7
30°	6856.3	6904.9	7400.2	8250.4	9243.8	10277.3	10947.1	11316.4	11491.1	11542.6	11568.4
32.5°	6604.4	6684.5	7291.4	8316.3	9492.9	10606.5	11201.9	11422.4	11465.3	11448.1	11456.7
35°	6326.7	6412.6	7188.4	8425.1	9776.3	10895.6	11302.1	11302.1	11176.2	11098.9	11093.1
37.5°	6031.8	6140.6	7085.3	8551.0	10105.5	11087.4	11193.3	10909.9	10603.6	10437.6	10411.8
40°	5711.2	5857.2	7013.7	8722.8	10403.2	11101.7	10804.0	10220.0	9699.0	9429.9	9398.4
42.5°	5393.4	5573.8	6982.2	8946.1	10626.5	10838.4	10071.1	9169.4	8462.3	8144.5	8110.2
45°	5044.2	5281.8	6993.7	9252.4	10686.6	10208.6	8980.4	7812.4	7019.5	6618.7	6584.3
47.5°	4697.8	4992.6	7022.3	9598.8	10423.3	9140.8	7529.0	6177.8	5390.6	4969.7	4964.0
50°	4337.1	4720.7	7091.0	9882.2	9710.4	7669.3	5745.5	4425.8	3796.0	3475.4	3449.6
52.5°	3962.0	4483.1	7239.9	9933.7	8442.2	5779.9	3899.1	2954.4	2545.0	2341.7	2301.6
55°	3607.1	4282.7	7483.2	9470.0	6618.7	3764.5	2456.2	1863.6	1657.5	1574.5	1583.1
57.5°	3300.7	4133.8	7766.6	8259.0	4297.0	2215.8	1422.8	1239.6	1233.8	1242.4	1245.3
60°	3051.7	4042.2	7892.6	6195.0	2358.9	1145.1	993.4	1033.5	1087.8	1119.3	1125.1
62.5°	2888.5	3993.5	7509.0	3589.9	1047.8	798.7	867.4	941.8	1004.8	1033.5	1036.3
65°	2779.7	3864.7	6143.5	1774.9	641.3	704.2	790.1	867.4	924.7	947.6	953.3
67.5°	2610.8	3501.1	4211.1	735.7	564.0	635.5	718.5	793.0	841.6	858.8	861.7
70°	2221.5	2931.5	2447.6	489.5	509.6	584.0	649.8	707.1	738.6	747.2	744.3
72.5°	1734.8	2321.7	1236.7	443.7	472.4	512.4	549.6	581.1	598.3	606.9	606.9
75°	1271.1	1697.6	581.1	392.2	352.1	386.5	423.7	443.7	449.5	452.3	452.3
77.5°	853.1	1170.9	346.4	303.5	272.0	300.6	314.9	306.3	300.6	306.3	306.3
80°	515.3	721.4	303.5	220.4	209.0	211.8	200.4	200.4	211.8	217.6	214.7
82.5°	277.7	409.4	266.2	160.3	140.3	128.8	126.0	120.2	114.5	111.6	111.6
85°	128.8	209.0	171.8	97.3	74.4	54.4	42.9	31.5	28.6	22.9	22.9
87.5°	51.5	80.2	51.5	31.5	17.2	11.5	8.6	5.7	2.9	2.9	2.9
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)