

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: P685535

Luminaire Tested: **8CZL-14-UNV-W-L950-CD-U**

Issue Date: 05/10/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P685535  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 05/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8CZL-14-UNV-W-L950-CD-U  
Description: METALUX CRUZE LINEAR 8FT WIDE LENS MODEL @90 CRI and 5000K  
Light Source: (784) 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

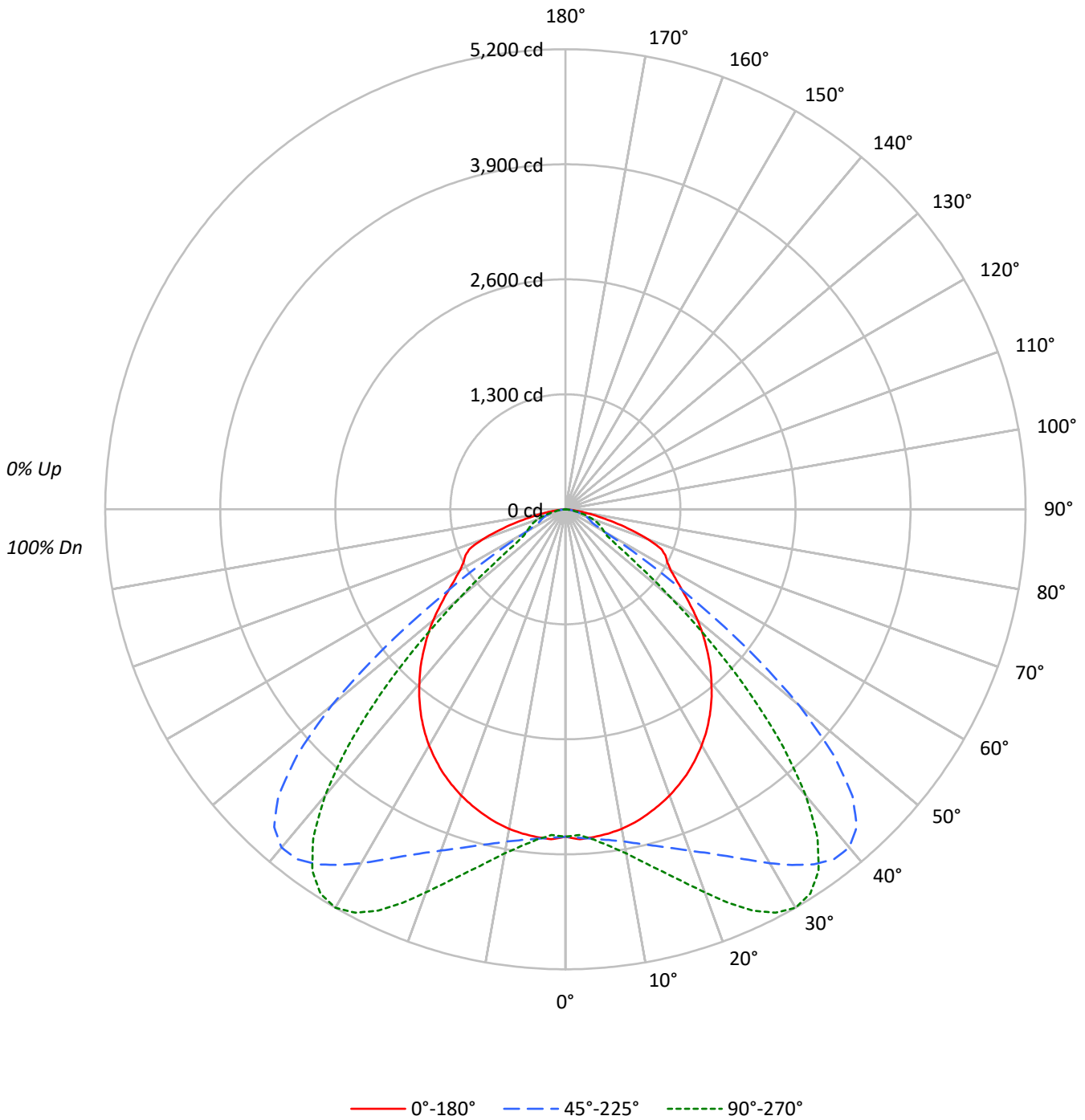
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11835.7 lumens  
Efficiency: N/A  
Efficacy: 133.0 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): 89  
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	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°	5975	5975	5975
5°	6027	6058	6077
10°	6012	6253	6472
15°	5969	6584	7085
20°	5916	7053	7915
25°	5845	7707	8915
30°	5746	8612	9694
35°	5605	9653	9828
40°	5411	10517	8904
45°	5177	10478	6758
50°	4897	8659	3895
55°	4564	4763	2003
60°	4429	1662	1633
65°	4773	1209	1637
70°	4714	1239	1580
75°	3564	1084	1268
80°	2153	885	897
85°	1073	452	191



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	358.2	3.0
10°-20°	1113.7	9.4
20°-30°	1956.4	16.5
30°-40°	2718.0	23.0
40°-50°	2756.4	23.3
50°-60°	1768.9	14.9
60°-70°	827.3	7.0
70°-80°	286.9	2.4
80°-90°	50.0	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°	3428.3	29.0
0°-40°	6146.3	51.9
0°-60°	10671.5	90.2
0°-90°	11835.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11835.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3701	3701	3701	3701	3701	
5°	3719	3692	3738	3750	3750	353
15°	3571	3656	3939	4150	4239	1007
25°	3281	3617	4326	4832	5004	1510
35°	2844	3648	4897	5066	4986	1776
45°	2267	3905	4589	3422	2960	1748
55°	1621	4033	1692	815	712	1463
65°	1249	1289	316	396	428	1215
75°	571	198	174	200	203	618
85°	58	52	24	14	10	87
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°	3700.7	3700.7	3700.7	3700.7	3700.7	3700.7	3700.7	3700.7	3700.7	3700.7	3700.7
2.5°	3732.9	3721.3	3702.0	3694.3	3698.1	3717.4	3723.9	3709.7	3705.8	3695.5	3685.3
5°	3718.7	3708.4	3694.3	3691.7	3705.8	3738.0	3752.2	3748.3	3754.7	3756.0	3749.6
7.5°	3698.1	3689.1	3677.5	3689.1	3718.7	3770.2	3802.3	3812.6	3835.8	3841.0	3839.7
10°	3667.2	3659.5	3655.7	3685.3	3736.7	3813.9	3870.5	3898.9	3932.3	3943.9	3947.8
12.5°	3626.1	3618.3	3628.6	3680.1	3761.2	3871.8	3955.5	4005.7	4053.3	4077.7	4085.4
15°	3570.7	3568.2	3593.9	3676.2	3792.1	3938.7	4054.6	4133.0	4201.2	4228.3	4238.6
17.5°	3510.3	3511.5	3557.9	3675.0	3829.4	4017.2	4165.2	4277.2	4360.8	4399.4	4411.0
20°	3443.3	3447.2	3516.7	3673.7	3875.7	4104.7	4287.5	4434.1	4538.4	4589.8	4606.6
22.5°	3364.9	3372.6	3471.7	3675.0	3924.6	4205.1	4431.6	4606.6	4731.4	4793.1	4813.7
25°	3281.2	3292.8	3425.3	3681.4	3986.4	4326.1	4596.3	4800.9	4927.0	4981.0	5004.2
27.5°	3184.7	3204.0	3375.1	3690.4	4059.7	4466.3	4764.8	4961.7	5078.8	5120.0	5140.6
30°	3081.8	3103.6	3326.3	3708.4	4154.9	4619.4	4920.5	5086.5	5165.0	5188.2	5199.8
32.5°	2968.5	3004.6	3277.4	3738.0	4266.9	4767.4	5035.1	5134.1	5153.4	5145.7	5149.6
35°	2843.7	2882.3	3231.0	3786.9	4394.3	4897.4	5080.1	5080.1	5023.5	4988.7	4986.2
37.5°	2711.2	2760.1	3184.7	3843.5	4542.2	4983.6	5031.2	4903.8	4766.1	4691.5	4679.9
40°	2567.1	2632.7	3152.5	3920.7	4676.1	4990.0	4856.2	4593.7	4359.5	4238.6	4224.4
42.5°	2424.2	2505.3	3138.4	4021.1	4776.4	4871.6	4526.8	4121.5	3803.6	3660.8	3645.4
45°	2267.3	2374.1	3143.5	4158.8	4803.4	4588.6	4036.5	3511.5	3155.1	2975.0	2959.5
47.5°	2111.6	2244.1	3156.4	4314.5	4685.1	4108.6	3384.2	2776.8	2423.0	2233.8	2231.2
50°	1949.4	2121.9	3187.3	4441.9	4364.7	3447.2	2582.5	1989.3	1706.2	1562.1	1550.5
52.5°	1780.9	2015.1	3254.2	4465.0	3794.6	2598.0	1752.6	1327.9	1143.9	1052.6	1034.5
55°	1621.3	1925.0	3363.6	4256.6	2975.0	1692.1	1104.0	837.7	745.0	707.7	711.6
57.5°	1483.6	1858.1	3491.0	3712.3	1931.4	995.9	639.5	557.2	554.6	558.4	559.7
60°	1371.7	1816.9	3547.6	2784.5	1060.3	514.7	446.5	464.5	489.0	503.1	505.7
62.5°	1298.3	1795.0	3375.1	1613.6	471.0	359.0	389.9	423.3	451.6	464.5	465.8
65°	1249.4	1737.1	2761.4	797.8	288.2	316.5	355.1	389.9	415.6	425.9	428.5
67.5°	1173.5	1573.7	1892.8	330.7	253.5	285.7	323.0	356.4	378.3	386.0	387.3
70°	998.5	1317.6	1100.2	220.0	229.0	262.5	292.1	317.8	332.0	335.8	334.6
72.5°	779.8	1043.6	555.9	199.4	212.3	230.3	247.1	261.2	268.9	272.8	272.8
75°	571.3	763.0	261.2	176.3	158.3	173.7	190.4	199.4	202.0	203.3	203.3
77.5°	383.5	526.3	155.7	136.4	122.2	135.1	141.5	137.7	135.1	137.7	137.7
80°	231.6	324.3	136.4	99.1	93.9	95.2	90.1	90.1	95.2	97.8	96.5
82.5°	124.8	184.0	119.7	72.1	63.1	57.9	56.6	54.0	51.5	50.2	50.2
85°	57.9	93.9	77.2	43.7	33.5	24.4	19.3	14.2	12.9	10.3	10.3
87.5°	23.2	36.0	23.2	14.2	7.7	5.1	3.9	2.6	1.3	1.3	1.3
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)