

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: P685324

Luminaire Tested: **8CZL-10-UNV-L850-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685324
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-10-UNV-L850-CD-U
Description: METALUX CRUZE LINEAR 8FT BASE MODEL @80 CRI and 5000K
Light Source: (784) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

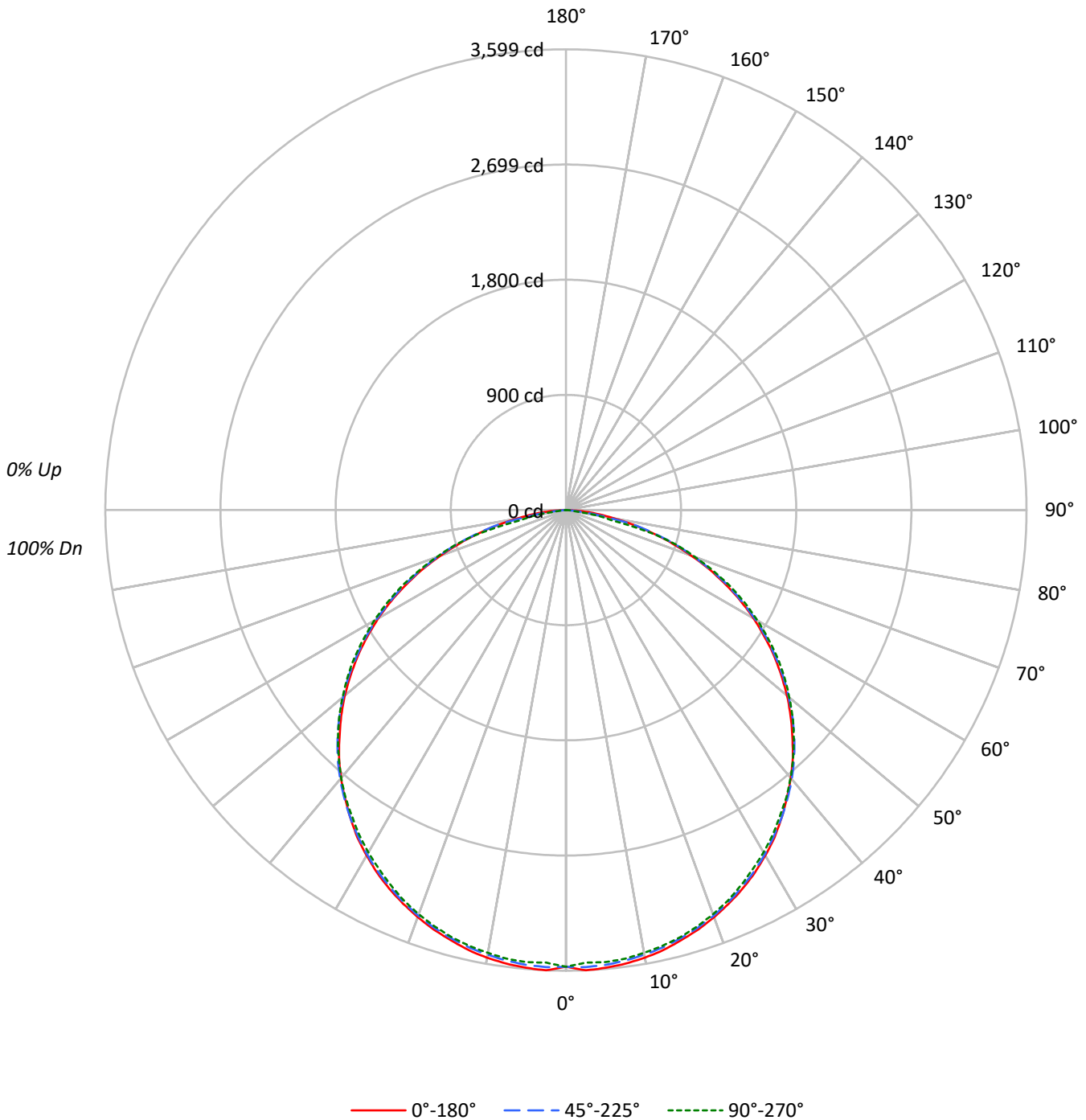
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10583.2 lumens
Efficiency: N/A
Efficacy: 168.0 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.29 / 1.41
Luminous Opening: Rectangular (W 0.83' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 63
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	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	86	86	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	72	72	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	61	61	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	52	52	52	50
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	45	45	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	39	39	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	35	35	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	31	31	31	29
9	56	42	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	28	28	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	25	25	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5760	5760	5760
5°	5818	5780	5745
10°	5822	5783	5758
15°	5814	5791	5773
20°	5816	5796	5773
25°	5817	5794	5765
30°	5810	5794	5757
35°	5789	5789	5748
40°	5762	5785	5757
45°	5713	5763	5750
50°	5665	5706	5725
55°	5589	5629	5684
60°	5467	5516	5583
65°	5263	5338	5430
70°	4923	5020	5066
75°	4429	4511	4280
80°	3701	3013	2346
85°	2760	724	261



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.4	3.2
10°-20°	975.8	9.2
20°-30°	1494.3	14.1
30°-40°	1829.6	17.3
40°-50°	1935.5	18.3
50°-60°	1784.8	16.9
60°-70°	1376.8	13.0
70°-80°	735.3	6.9
80°-90°	112.5	1.1
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°	2808.6	26.5
0°-40°	4638.2	43.8
0°-60°	8358.5	79.0
0°-90°	10583.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10583.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3568	3568	3568	3568	3568	
5°	3589	3547	3566	3551	3545	341
15°	3478	3442	3464	3452	3454	983
25°	3265	3232	3252	3228	3236	1505
35°	2937	2920	2937	2912	2916	1838
45°	2502	2501	2524	2506	2518	1931
55°	1986	1983	2000	2012	2019	1771
65°	1378	1378	1397	1408	1421	1360
75°	710	709	723	728	686	752
85°	149	107	39	16	14	183
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3567.6	3567.6	3567.6	3567.6	3567.6
2.5°	3599.2	3556.8	3574.1	3561.1	3539.4
5°	3589.4	3547.0	3566.5	3551.3	3544.8
7.5°	3574.1	3530.7	3550.2	3538.3	3536.1
10°	3551.3	3506.7	3527.4	3514.3	3512.2
12.5°	3520.9	3477.4	3500.2	3485.0	3487.2
15°	3478.5	3441.5	3464.3	3452.4	3453.5
17.5°	3436.1	3398.0	3421.9	3410.0	3411.0
20°	3384.9	3348.0	3373.0	3354.5	3359.9
22.5°	3327.3	3294.7	3316.4	3292.5	3303.4
25°	3265.3	3231.6	3252.3	3228.4	3236.0
27.5°	3194.7	3163.1	3183.8	3158.8	3162.0
30°	3116.4	3088.1	3107.7	3082.7	3088.1
32.5°	3032.6	3007.6	3022.9	3000.0	3007.6
35°	2937.0	2919.6	2937.0	2911.9	2916.3
37.5°	2836.9	2819.5	2843.4	2821.7	2829.3
40°	2733.6	2717.3	2744.5	2722.7	2731.4
42.5°	2623.8	2611.8	2639.0	2617.3	2628.1
45°	2502.0	2500.9	2523.8	2506.4	2518.3
47.5°	2381.3	2379.1	2402.0	2390.0	2404.2
50°	2255.2	2253.0	2271.5	2270.4	2279.1
52.5°	2120.3	2123.6	2141.0	2144.3	2154.1
55°	1985.5	1983.3	1999.7	2011.6	2019.2
57.5°	1838.7	1843.1	1856.1	1870.3	1875.7
60°	1693.0	1690.8	1708.2	1720.2	1728.9
62.5°	1538.6	1538.6	1552.7	1570.1	1578.8
65°	1377.7	1377.7	1397.3	1408.1	1421.2
67.5°	1213.5	1210.2	1227.6	1251.6	1249.4
70°	1042.8	1043.9	1063.4	1075.4	1073.2
72.5°	873.1	876.4	897.1	902.5	907.9
75°	710.0	709.0	723.1	728.5	686.1
77.5°	548.0	549.1	557.8	408.8	358.8
80°	398.0	400.1	324.0	252.3	252.3
82.5°	263.1	258.8	166.4	97.9	71.8
85°	149.0	106.6	39.1	16.3	14.1
87.5°	60.9	19.6	10.9	7.6	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)