

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: P685367

Luminaire Tested: **8CZL-24-UNV-N-L835-CD-U**

Issue Date: 05/10/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P685367  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 05/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8CZL-24-UNV-N-L835-CD-U  
Description: METALUX CRUZE LINEAR 8FT NARROW LENS MODEL @80 CRI and 3500K  
Light Source: (1176) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

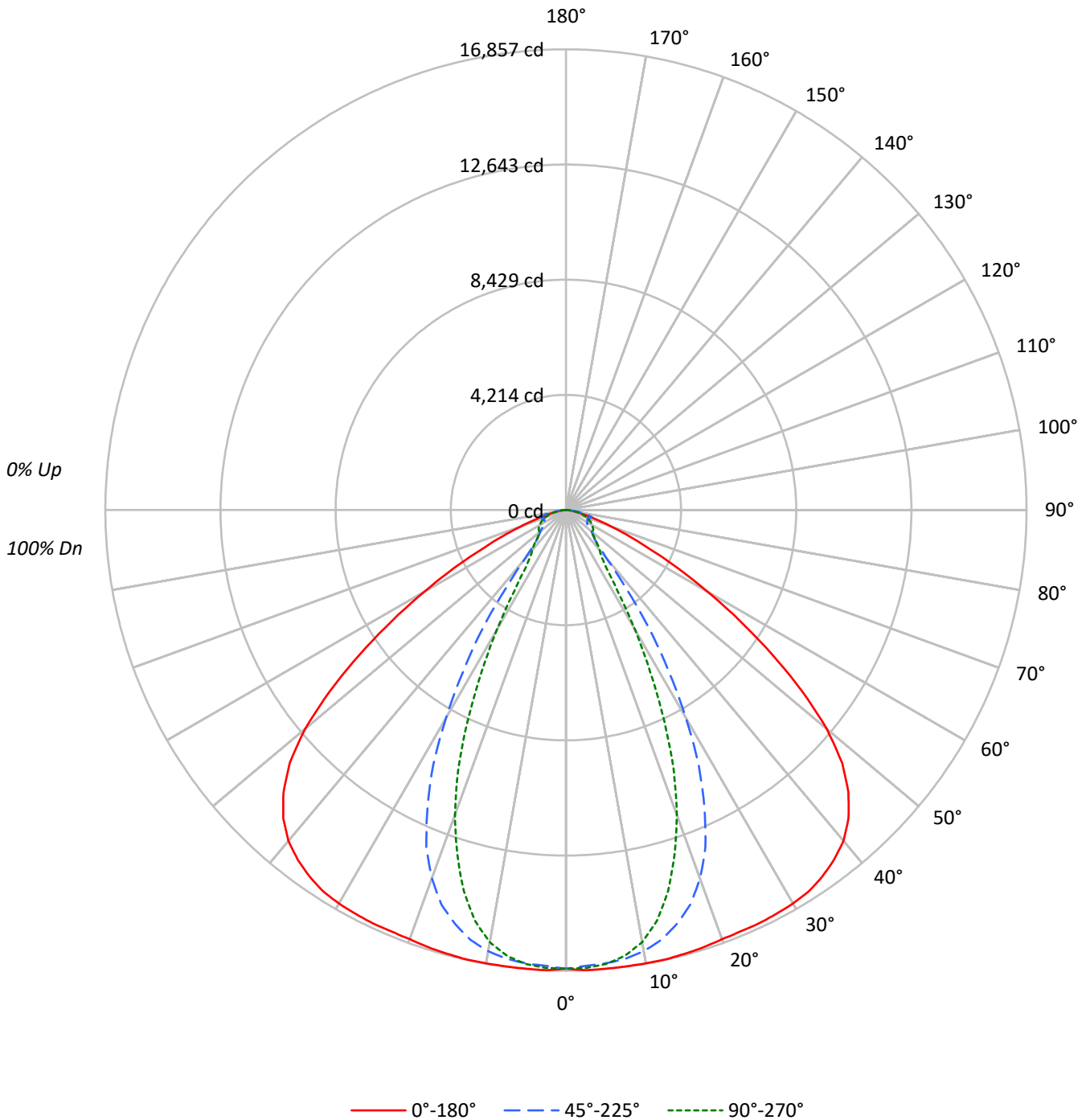
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23693.0 lumens  
Efficiency: N/A  
Efficacy: 153.9 lumens/watt  
Spacing Criteria (0/90/45): 1.48 / 0.81 / 0.89  
Luminous Opening: Rectangular (W 0.83' x L: 8' x H: 0')  
CIE Type: Direct

Input Watts (W): 154  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80	79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	68	88	79	72	67	77	71	66	74	70	66	72	68	65	63
5	84	74	66	61	82	73	66	60	71	64	60	69	63	59	67	62	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	27096	27096	27096
5°	27307	26992	27034
10°	27611	26877	26321
15°	28093	26212	24132
20°	28711	24650	20400
25°	29743	21364	15159
30°	30987	16363	9405
35°	32261	10578	5045
40°	33306	4925	4039
45°	33378	3341	3440
50°	31294	3061	3166
55°	25872	2758	3435
60°	19365	2909	3526
65°	13055	3326	3776
70°	8286	4055	3885
75°	4999	6041	3878
80°	3050	5391	3612
85°	1973	3492	2479



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1588.7	6.7
10°-20°	4386.2	18.5
20°-30°	5601.9	23.6
30°-40°	4543.5	19.2
40°-50°	3214.8	13.6
50°-60°	2093.7	8.8
60°-70°	1285.8	5.4
70°-80°	763.7	3.2
80°-90°	214.6	0.9
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°	11576.9	48.9
0°-40°	16120.3	68.0
0°-60°	21428.9	90.4
0°-90°	23693.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23693.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	16782	16782	16782	16782	16782	
5°	16848	16812	16654	16722	16680	1608
15°	16806	16579	15681	14867	14437	4760
25°	16696	15317	11992	9323	8509	7719
35°	16368	11112	5367	2879	2560	10237
45°	14618	5594	1463	1555	1506	11150
55°	9191	1883	980	1144	1220	8214
65°	3417	965	870	1045	988	3550
75°	801	548	968	709	622	935
85°	106	213	188	168	134	149
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	16782.0	16782.0	16782.0	16782.0	16782.0
2.5°	16856.8	16823.7	16695.6	16796.4	16767.6
5°	16848.2	16812.2	16653.9	16721.5	16679.8
7.5°	16842.4	16789.2	16564.7	16544.6	16458.3
10°	16841.0	16747.4	16393.5	16199.3	16054.0
12.5°	16843.8	16678.4	16112.9	15684.2	15389.2
15°	16806.4	16579.1	15681.3	14867.0	14436.8
17.5°	16771.9	16351.8	15137.4	13867.0	13221.0
20°	16710.0	16127.3	14346.1	12641.2	11872.8
22.5°	16692.8	15787.8	13346.2	11062.8	10301.7
25°	16695.6	15317.3	11992.3	9323.3	8509.0
27.5°	16664.0	14690.0	10517.5	7641.4	6677.4
30°	16620.8	13800.8	8776.6	5838.6	5044.4
32.5°	16544.6	12553.4	6993.9	4161.0	3502.0
35°	16367.6	11111.7	5366.7	2879.0	2559.6
37.5°	16121.6	9508.9	3618.5	2161.1	2109.3
40°	15802.2	8054.3	2336.6	1889.1	1916.5
42.5°	15307.2	6798.3	1706.4	1717.9	1720.8
45°	14618.0	5594.0	1463.2	1555.3	1506.4
47.5°	13711.6	4392.6	1329.4	1355.3	1348.1
50°	12458.4	3289.1	1218.7	1212.9	1260.4
52.5°	10908.9	2433.0	1105.0	1153.9	1243.1
55°	9191.0	1883.4	979.8	1143.8	1220.1
57.5°	7543.5	1526.5	907.9	1115.1	1159.7
60°	5996.9	1271.9	900.7	1061.8	1092.0
62.5°	4632.9	1090.6	896.4	1035.9	1047.4
65°	3417.1	965.4	870.5	1044.6	988.4
67.5°	2489.1	925.1	850.3	1030.2	910.8
70°	1755.3	812.9	859.0	951.0	823.0
72.5°	1191.3	679.1	955.4	838.8	720.8
75°	801.4	548.2	968.3	709.3	621.6
77.5°	520.8	456.1	823.0	579.8	515.1
80°	328.0	379.8	579.8	446.0	388.5
82.5°	212.9	292.1	366.9	315.1	267.6
85°	106.5	212.9	188.5	168.3	133.8
87.5°	63.3	129.5	100.7	73.4	67.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)