

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: P685417

Luminaire Tested: **8CZL-24-UNV-N-L950-CD-U**

Issue Date: 05/10/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P685417  
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-L950-CD-U  
Description: METALUX CRUZE LINEAR 8FT NARROW LENS MODEL @90 CRI and 5000K  
Light Source: (1176) 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

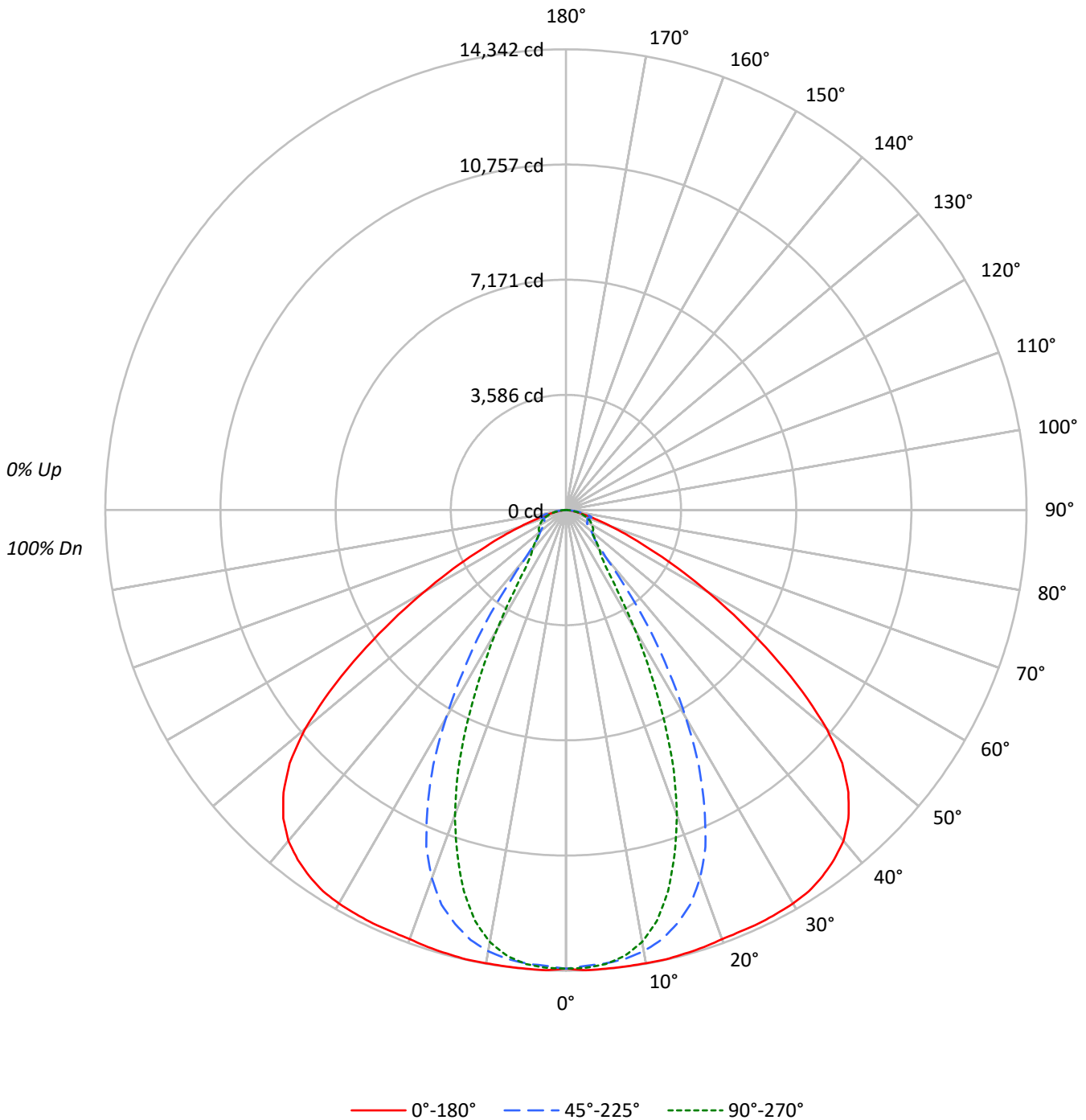
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20157.7 lumens  
Efficiency: N/A  
Efficacy: 130.9 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	50	30	10
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°	23053	23053	23053
5°	23232	22965	23000
10°	23491	22867	22393
15°	23901	22301	20531
20°	24427	20972	17356
25°	25305	18177	12897
30°	26364	13921	8001
35°	27448	9000	4292
40°	28337	4190	3437
45°	28398	2843	2926
50°	26624	2604	2693
55°	22012	2347	2922
60°	16476	2475	3000
65°	11107	2829	3213
70°	7050	3450	3305
75°	4253	5139	3299
80°	2595	4587	3073
85°	1678	2971	2108



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1351.7	6.7
10°-20°	3731.8	18.5
20°-30°	4766.0	23.6
30°-40°	3865.5	19.2
40°-50°	2735.1	13.6
50°-60°	1781.3	8.8
60°-70°	1093.9	5.4
70°-80°	649.8	3.2
80°-90°	182.6	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°	9849.5	48.9
0°-40°	13715.0	68.0
0°-60°	18231.5	90.4
0°-90°	20157.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20157.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	14278	14278	14278	14278	14278	
5°	14334	14304	14169	14226	14191	1368
15°	14299	14105	13342	12649	12283	4050
25°	14204	13032	10203	7932	7239	6567
35°	13925	9454	4566	2449	2178	8709
45°	12437	4759	1245	1323	1282	9486
55°	7820	1602	834	973	1038	6988
65°	2907	821	741	889	841	3020
75°	682	466	824	604	529	795
85°	91	181	160	143	114	127
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	14277.9	14277.9	14277.9	14277.9	14277.9
2.5°	14341.6	14313.4	14204.5	14290.2	14265.7
5°	14334.2	14303.6	14169.0	14226.5	14191.0
7.5°	14329.3	14284.0	14093.1	14075.9	14002.5
10°	14328.1	14248.5	13947.4	13782.2	13658.5
12.5°	14330.6	14189.8	13708.7	13343.9	13093.0
15°	14298.7	14105.3	13341.5	12648.6	12282.6
17.5°	14269.3	13911.9	12878.8	11797.9	11248.3
20°	14216.7	13721.0	12205.5	10755.0	10101.3
22.5°	14202.0	13432.1	11354.8	9412.1	8764.6
25°	14204.5	13031.8	10202.9	7932.2	7239.3
27.5°	14177.5	12498.1	8948.2	6501.2	5681.1
30°	14140.8	11741.6	7467.0	4967.4	4291.7
32.5°	14075.9	10680.3	5950.4	3540.1	2979.5
35°	13925.4	9453.7	4565.9	2449.4	2177.7
37.5°	13716.1	8090.1	3078.6	1838.6	1794.5
40°	13444.3	6852.5	1987.9	1607.2	1630.5
42.5°	13023.2	5783.9	1451.8	1461.6	1464.0
45°	12436.9	4759.3	1244.9	1323.3	1281.6
47.5°	11665.7	3737.2	1131.1	1153.1	1147.0
50°	10599.5	2798.3	1036.8	1031.9	1072.3
52.5°	9281.1	2070.0	940.1	981.7	1057.6
55°	7819.6	1602.3	833.6	973.2	1038.0
57.5°	6418.0	1298.8	772.4	948.7	986.6
60°	5102.1	1082.1	766.3	903.4	929.1
62.5°	3941.6	927.9	762.6	881.4	891.1
65°	2907.2	821.4	740.6	888.7	841.0
67.5°	2117.7	787.1	723.4	876.5	774.9
70°	1493.4	691.6	730.8	809.1	700.2
72.5°	1013.6	577.8	812.8	713.7	613.3
75°	681.8	466.4	823.8	603.5	528.8
77.5°	443.1	388.0	700.2	493.3	438.2
80°	279.1	323.2	493.3	379.5	330.5
82.5°	181.2	248.5	312.1	268.1	227.7
85°	90.6	181.2	160.4	143.2	113.8
87.5°	53.9	110.2	85.7	62.4	57.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)