

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: P685418

Luminaire Tested: **8CZL-32-UNV-N-L950-CD-U**

Issue Date: 05/10/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P685418  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 05/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8CZL-32-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

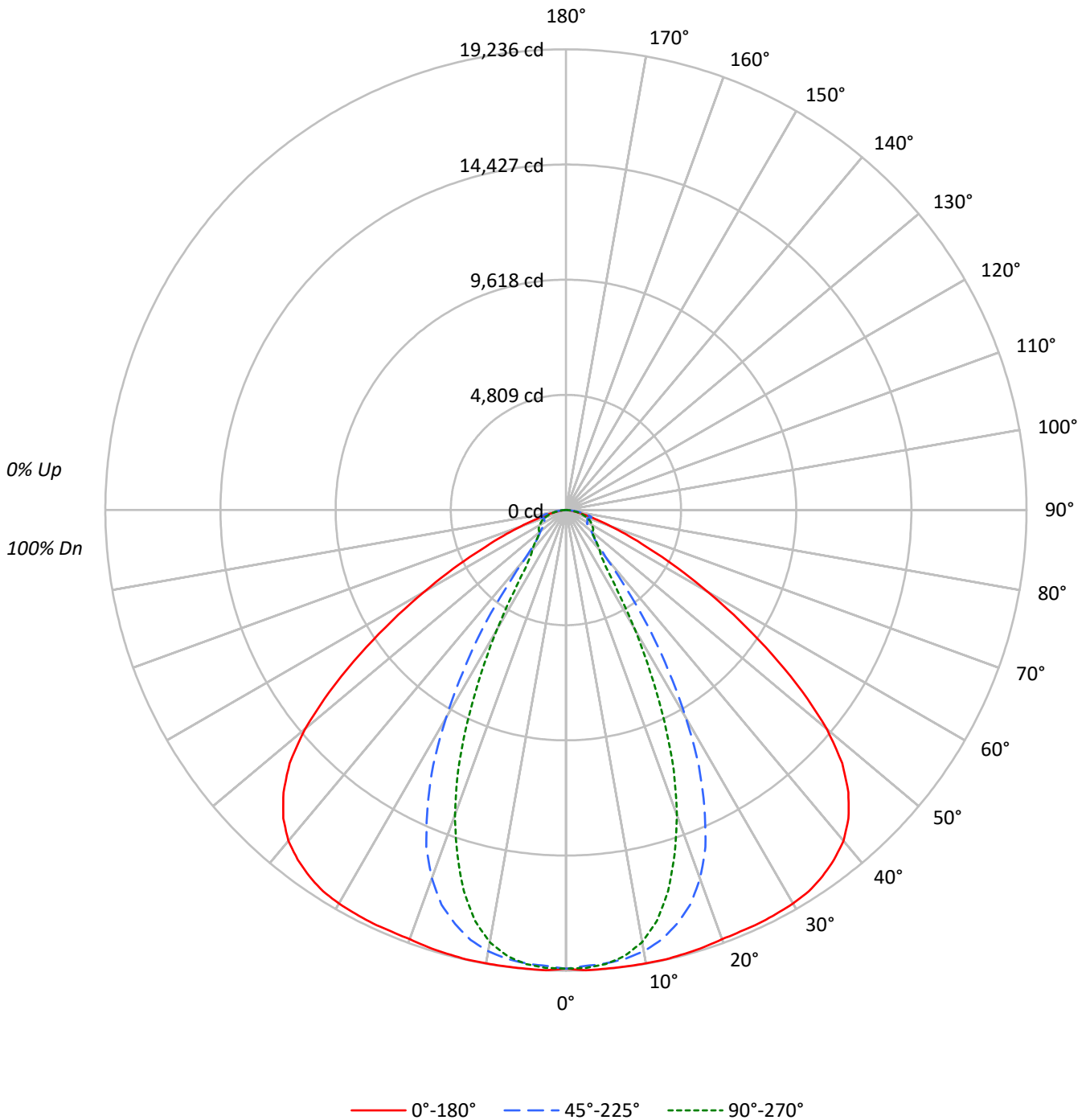
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27037.6 lumens  
Efficiency: N/A  
Efficacy: 131.3 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): 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				
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	100	100	100	100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89	89	89	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80	79	79	79	79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70	70	70	70
4	90	80	73	68	88	79	72	67	77	71	66	74	70	66	72	68	65	63	63	63	63
5	84	74	66	61	82	73	66	60	71	64	60	69	63	59	67	62	59	57	57	57	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52	52	52	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47	47	47	47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44	44	44	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40	40	40	40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37	37	37	37

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

	0°	45°	90°
0°	30921	30921	30921
5°	31162	30802	30850
10°	31508	30671	30036
15°	32058	29912	27538
20°	32764	28129	23280
25°	33942	24380	17299
30°	35362	18673	10732
35°	36816	12071	5757
40°	38008	5620	4610
45°	38090	3813	3925
50°	35711	3493	3613
55°	29524	3147	3919
60°	22099	3319	4024
65°	14898	3795	4309
70°	9456	4627	4434
75°	5705	6893	4425
80°	3481	6153	4122
85°	2251	3985	2829



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1813.0	6.7
10°-20°	5005.4	18.5
20°-30°	6392.7	23.6
30°-40°	5184.9	19.2
40°-50°	3668.6	13.6
50°-60°	2389.3	8.8
60°-70°	1467.3	5.4
70°-80°	871.5	3.2
80°-90°	244.9	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°	13211.1	48.9
0°-40°	18396.0	68.0
0°-60°	24453.9	90.4
0°-90°	27037.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27037.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	19151	19151	19151	19151	19151	
5°	19226	19186	19005	19082	19034	1835
15°	19179	18920	17895	16966	16475	5432
25°	19052	17480	13685	10640	9710	8809
35°	18678	12680	6124	3285	2921	11682
45°	16682	6384	1670	1775	1719	12724
55°	10488	2149	1118	1305	1392	9373
65°	3900	1102	993	1192	1128	4051
75°	914	626	1105	810	709	1067
85°	122	243	215	192	153	170
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	19151.0	19151.0	19151.0	19151.0	19151.0
2.5°	19236.4	19198.6	19052.5	19167.4	19134.6
5°	19226.5	19185.5	19004.9	19082.1	19034.4
7.5°	19220.0	19159.2	18903.1	18880.1	18781.6
10°	19218.3	19111.6	18707.7	18486.0	18320.2
12.5°	19221.6	19032.8	18387.5	17898.2	17561.7
15°	19178.9	18919.5	17895.0	16965.7	16474.7
17.5°	19139.5	18660.1	17274.3	15824.5	15087.3
20°	19068.9	18404.0	16371.3	14425.7	13548.9
22.5°	19049.2	18016.5	15230.2	12624.5	11755.9
25°	19052.5	17479.6	13685.2	10639.5	9710.1
27.5°	19016.4	16763.7	12002.2	8720.1	7620.0
30°	18967.1	15749.0	10015.5	6662.8	5756.5
32.5°	18880.1	14325.5	7981.2	4748.3	3996.4
35°	18678.1	12680.3	6124.3	3285.4	2920.9
37.5°	18397.4	10851.3	4129.4	2466.1	2407.0
40°	18032.9	9191.3	2666.4	2155.8	2187.0
42.5°	17468.1	7757.9	1947.3	1960.4	1963.7
45°	16681.6	6383.7	1669.8	1774.9	1719.1
47.5°	15647.2	5012.7	1517.1	1546.7	1538.5
50°	14217.1	3753.4	1390.7	1384.1	1438.3
52.5°	12448.8	2776.4	1261.0	1316.8	1418.6
55°	10488.4	2149.2	1118.1	1305.3	1392.3
57.5°	8608.4	1742.0	1036.0	1272.5	1323.4
60°	6843.4	1451.4	1027.8	1211.7	1246.2
62.5°	5286.9	1244.6	1022.9	1182.2	1195.3
65°	3899.5	1101.7	993.3	1192.0	1128.0
67.5°	2840.5	1055.7	970.4	1175.6	1039.3
70°	2003.1	927.7	980.2	1085.3	939.2
72.5°	1359.5	775.0	1090.2	957.2	822.6
75°	914.5	625.6	1105.0	809.5	709.3
77.5°	594.4	520.5	939.2	661.7	587.8
80°	374.4	433.5	661.7	509.0	443.3
82.5°	243.0	333.3	418.7	359.6	305.4
85°	121.5	243.0	215.1	192.1	152.7
87.5°	72.2	147.8	114.9	83.7	77.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)