

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: P685405

Luminaire Tested: **8CZL-14-UNV-N-L940-CD-U**

Issue Date: 05/10/2023

Test Information

Test Method: LM-79-08
Report Number: P685405
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-14-UNV-N-L940-CD-U
Description: METALUX CRUZE LINEAR 8FT NARROW LENS MODEL @90 CRI and 4000K
Light Source: (784) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

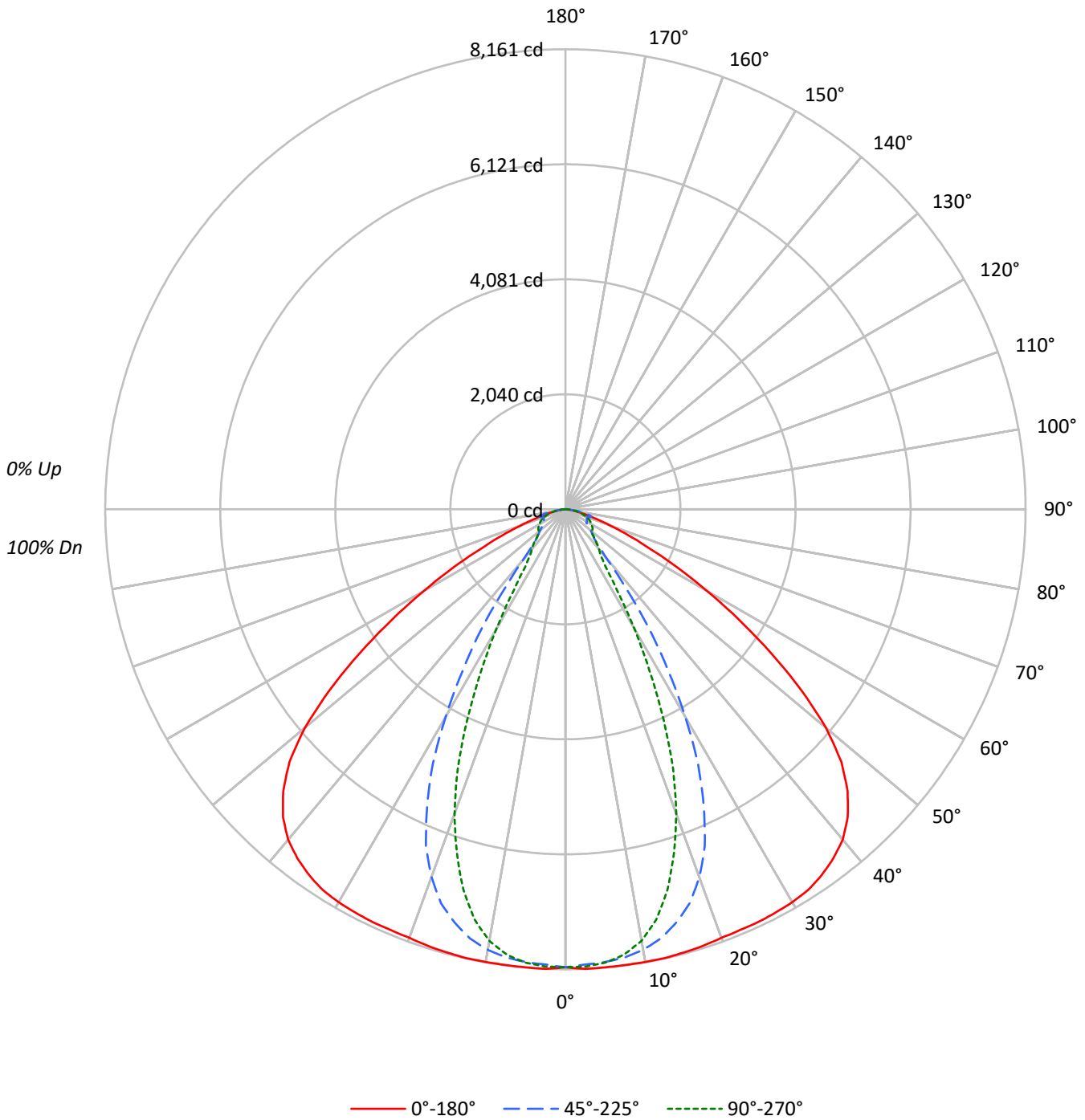
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11470.7 lumens
Efficiency: N/A
Efficacy: 128.9 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): 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	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°	13118	13118	13118
5°	13220	13068	13088
10°	13368	13012	12743
15°	13601	12690	11683
20°	13900	11934	9876
25°	14400	10343	7339
30°	15002	7922	4553
35°	15619	5121	2443
40°	16125	2384	1956
45°	16160	1618	1665
50°	15151	1482	1533
55°	12526	1335	1663
60°	9375	1408	1707
65°	6321	1610	1828
70°	4012	1963	1881
75°	2420	2925	1877
80°	1477	2610	1749
85°	954	1691	1200



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	769.2	6.7
10°-20°	2123.5	18.5
20°-30°	2712.1	23.6
30°-40°	2199.7	19.2
40°-50°	1556.4	13.6
50°-60°	1013.7	8.8
60°-70°	622.5	5.4
70°-80°	369.7	3.2
80°-90°	103.9	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°	5604.8	48.9
0°-40°	7804.5	68.0
0°-60°	10374.6	90.4
0°-90°	11470.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11470.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8125	8125	8125	8125	8125	
5°	8157	8139	8063	8096	8075	778
15°	8137	8027	7592	7198	6989	2305
25°	8083	7416	5806	4514	4120	3737
35°	7924	5380	2598	1394	1239	4956
45°	7077	2708	708	753	729	5398
55°	4450	912	474	554	591	3976
65°	1654	467	421	506	478	1719
75°	388	265	469	343	301	453
85°	52	103	91	82	65	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8124.8	8124.8	8124.8	8124.8	8124.8
2.5°	8161.0	8145.0	8083.0	8131.8	8117.9
5°	8156.9	8139.4	8062.8	8095.6	8075.4
7.5°	8154.1	8128.3	8019.6	8009.9	7968.1
10°	8153.4	8108.1	7936.7	7842.7	7772.4
12.5°	8154.8	8074.7	7800.9	7593.3	7450.5
15°	8136.7	8026.6	7591.9	7197.7	6989.4
17.5°	8119.9	7916.5	7328.6	6713.6	6400.8
20°	8090.0	7807.9	6945.5	6120.1	5748.1
22.5°	8081.6	7643.5	6461.4	5355.9	4987.5
25°	8083.0	7415.7	5805.9	4513.8	4119.5
27.5°	8067.7	7112.0	5091.9	3699.5	3232.8
30°	8046.8	6681.5	4249.1	2826.7	2442.2
32.5°	8009.9	6077.6	3386.0	2014.5	1695.5
35°	7924.2	5379.6	2598.2	1393.8	1239.2
37.5°	7805.1	4603.6	1751.9	1046.3	1021.2
40°	7650.5	3899.4	1131.2	914.6	927.8
42.5°	7410.8	3291.3	826.1	831.7	833.1
45°	7077.2	2708.3	708.4	753.0	729.3
47.5°	6638.3	2126.6	643.6	656.2	652.7
50°	6031.6	1592.4	590.0	587.2	610.2
52.5°	5281.4	1177.9	535.0	558.7	601.8
55°	4449.7	911.8	474.4	553.8	590.7
57.5°	3652.1	739.1	439.5	539.8	561.4
60°	2903.3	615.8	436.1	514.1	528.7
62.5°	2243.0	528.0	434.0	501.5	507.1
65°	1654.4	467.4	421.4	505.7	478.5
67.5°	1205.1	447.9	411.7	498.7	440.9
70°	849.8	393.6	415.9	460.4	398.4
72.5°	576.8	328.8	462.5	406.1	349.0
75°	388.0	265.4	468.8	343.4	300.9
77.5°	252.2	220.8	398.4	280.7	249.4
80°	158.8	183.9	280.7	215.9	188.1
82.5°	103.1	141.4	177.6	152.5	129.6
85°	51.5	103.1	91.3	81.5	64.8
87.5°	30.6	62.7	48.8	35.5	32.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)