

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: P685388

Luminaire Tested: **8CZL-32-UNV-N-L850-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685388
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-L850-CD-U
Description: METALUX CRUZE LINEAR 8FT NARROW LENS MODEL @80 CRI and 5000K
Light Source: (1176) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

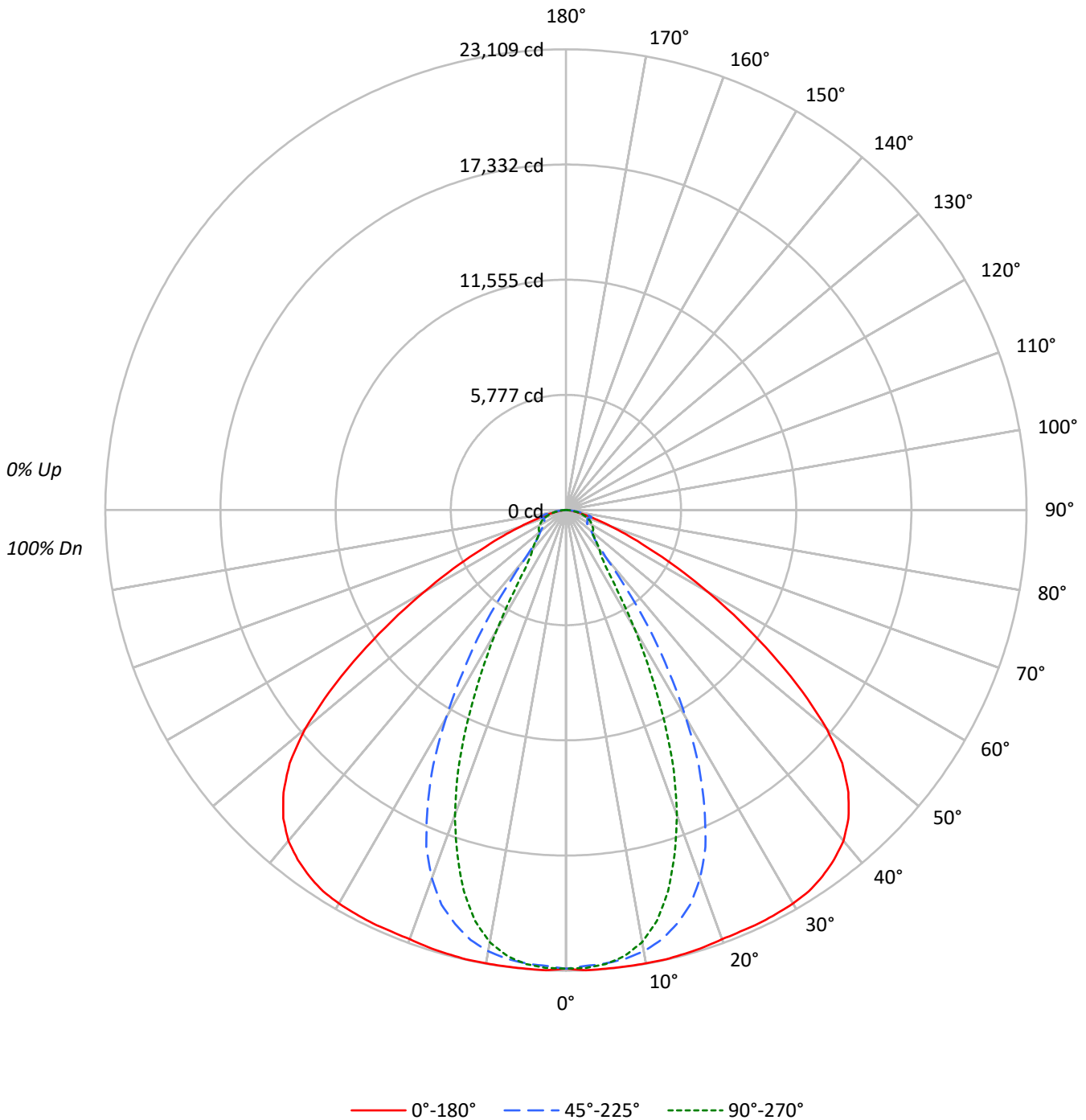
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32481.3 lumens
Efficiency: N/A
Efficacy: 157.7 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°	37147	37147	37147
5°	37436	37004	37062
10°	37852	36847	36083
15°	38513	35935	33083
20°	39361	33793	27967
25°	40776	29289	20782
30°	42482	22432	12893
35°	44228	14502	6916
40°	45660	6752	5538
45°	45760	4580	4716
50°	42902	4197	4340
55°	35469	3781	4709
60°	26548	3987	4834
65°	17897	4559	5177
70°	11360	5559	5326
75°	6854	8281	5316
80°	4181	7391	4952
85°	2705	4787	3398



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2178.0	6.7
10°-20°	6013.2	18.5
20°-30°	7679.8	23.6
30°-40°	6228.8	19.2
40°-50°	4407.3	13.6
50°-60°	2870.4	8.8
60°-70°	1762.7	5.4
70°-80°	1047.0	3.2
80°-90°	294.2	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°	15871.0	48.9
0°-40°	22099.8	68.0
0°-60°	29377.5	90.4
0°-90°	32481.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	32481.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23007	23007	23007	23007	23007	
5°	23098	23048	22831	22924	22867	2204
15°	23040	22729	21498	20382	19792	6526
25°	22888	20999	16440	12782	11665	10583
35°	22439	15233	7357	3947	3509	14034
45°	20040	7669	2006	2132	2065	15286
55°	12600	2582	1343	1568	1673	11260
65°	4685	1324	1193	1432	1355	4867
75°	1099	752	1328	972	852	1282
85°	146	292	258	231	183	204
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	23006.9	23006.9	23006.9	23006.9	23006.9
2.5°	23109.4	23064.1	22888.5	23026.6	22987.2
5°	23097.6	23048.3	22831.3	22924.0	22866.8
7.5°	23089.7	23016.7	22709.0	22681.4	22563.1
10°	23087.7	22959.5	22474.3	22208.0	22008.8
12.5°	23091.7	22864.9	22089.7	21501.9	21097.5
15°	23040.4	22728.8	21497.9	20381.5	19791.8
17.5°	22993.1	22417.1	20752.3	19010.7	18125.0
20°	22908.3	22109.4	19667.5	17330.1	16276.8
22.5°	22884.6	21643.9	18296.6	15166.3	14122.9
25°	22888.5	20998.9	16440.5	12781.6	11665.2
27.5°	22845.1	20138.9	14418.7	10475.8	9154.2
30°	22786.0	18919.9	12032.1	8004.3	6915.5
32.5°	22681.4	17209.8	9588.2	5704.4	4801.0
35°	22438.8	15233.4	7357.3	3946.9	3509.0
37.5°	22101.5	13036.0	4960.8	2962.6	2891.6
40°	21663.6	11041.9	3203.3	2589.9	2627.3
42.5°	20985.1	9319.9	2339.3	2355.1	2359.1
45°	20040.3	7669.0	2006.0	2132.2	2065.2
47.5°	18797.6	6021.9	1822.6	1858.1	1848.2
50°	17079.6	4509.1	1670.7	1662.8	1727.9
52.5°	14955.3	3335.4	1514.9	1581.9	1704.2
55°	12600.1	2582.0	1343.3	1568.1	1672.7
57.5°	10341.7	2092.8	1244.6	1528.7	1589.8
60°	8221.2	1743.7	1234.8	1455.7	1497.1
62.5°	6351.3	1495.1	1228.8	1420.2	1436.0
65°	4684.6	1323.5	1193.3	1432.0	1355.1
67.5°	3412.4	1268.3	1165.7	1412.3	1248.6
70°	2406.4	1114.4	1177.6	1303.8	1128.3
72.5°	1633.2	931.0	1309.7	1149.9	988.2
75°	1098.7	751.5	1327.5	972.4	852.1
77.5°	714.0	625.3	1128.3	794.9	706.1
80°	449.7	520.7	794.9	611.5	532.6
82.5°	291.9	400.4	503.0	432.0	366.9
85°	146.0	291.9	258.4	230.8	183.4
87.5°	86.8	177.5	138.1	100.6	92.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)