

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: P685384

Luminaire Tested: **8CZL-10-UNV-N-L850-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685384
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-10-UNV-N-L850-CD-U
Description: METALUX CRUZE LINEAR 8FT NARROW LENS MODEL @80 CRI and 5000K
Light Source: (784) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

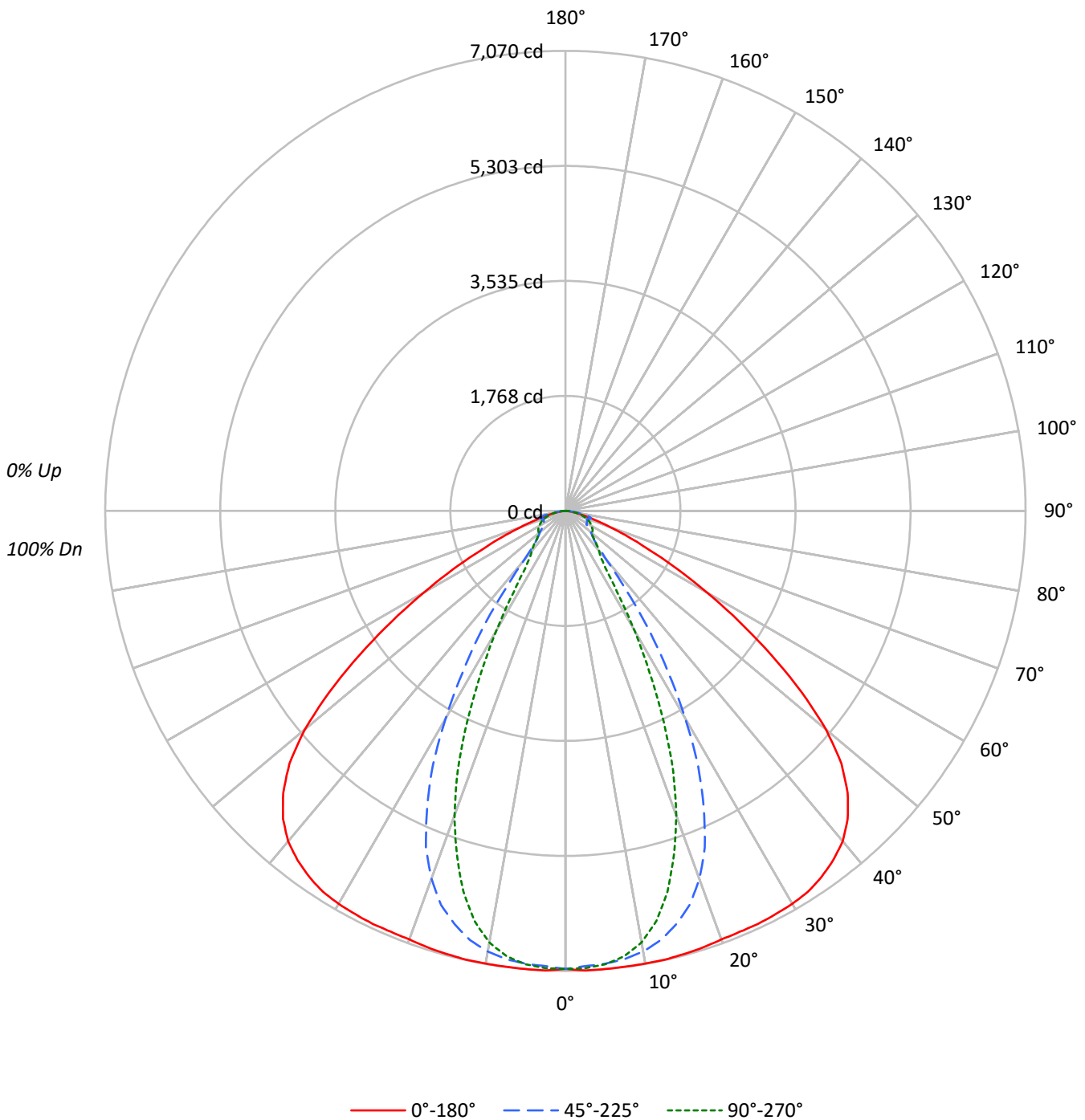
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9937.9 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): 63
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°	11365	11365	11365
5°	11454	11322	11339
10°	11581	11274	11040
15°	11783	10994	10122
20°	12043	10339	8557
25°	12476	8961	6358
30°	12997	6863	3945
35°	13532	4437	2116
40°	13970	2066	1694
45°	14001	1402	1443
50°	13126	1284	1328
55°	10852	1157	1441
60°	8123	1220	1479
65°	5476	1395	1584
70°	3476	1701	1630
75°	2097	2533	1626
80°	1279	2261	1515
85°	828	1465	1039



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	666.4	6.7
10°-20°	1839.8	18.5
20°-30°	2349.7	23.6
30°-40°	1905.7	19.2
40°-50°	1348.4	13.6
50°-60°	878.2	8.8
60°-70°	539.3	5.4
70°-80°	320.3	3.2
80°-90°	90.0	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°	4855.9	48.9
0°-40°	6761.6	68.0
0°-60°	8988.3	90.4
0°-90°	9937.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9937.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7039	7039	7039	7039	7039	
5°	7067	7052	6985	7014	6996	674
15°	7049	6954	6577	6236	6055	1997
25°	7003	6425	5030	3911	3569	3238
35°	6865	4661	2251	1208	1074	4294
45°	6132	2346	614	652	632	4677
55°	3855	790	411	480	512	3445
65°	1433	405	365	438	415	1489
75°	336	230	406	298	261	392
85°	45	89	79	71	56	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7039.1	7039.1	7039.1	7039.1	7039.1
2.5°	7070.5	7056.6	7002.9	7045.2	7033.1
5°	7066.9	7051.8	6985.4	7013.8	6996.3
7.5°	7064.5	7042.1	6948.0	6939.5	6903.3
10°	7063.9	7024.6	6876.2	6794.7	6733.8
12.5°	7065.1	6995.7	6758.5	6578.7	6454.9
15°	7049.4	6954.0	6577.4	6235.9	6055.4
17.5°	7034.9	6858.7	6349.3	5816.4	5545.5
20°	7008.9	6764.5	6017.4	5302.3	4980.0
22.5°	7001.7	6622.1	5598.0	4640.2	4321.0
25°	7002.9	6424.8	5030.1	3910.6	3569.0
27.5°	6989.6	6161.6	4411.5	3205.1	2800.8
30°	6971.5	5788.7	3681.3	2449.0	2115.8
32.5°	6939.5	5265.5	2933.6	1745.3	1468.9
35°	6865.3	4660.8	2251.0	1207.6	1073.6
37.5°	6762.1	3988.5	1517.8	906.4	884.7
40°	6628.1	3378.3	980.1	792.4	803.8
42.5°	6420.5	2851.5	715.7	720.6	721.8
45°	6131.5	2346.4	613.8	652.4	631.9
47.5°	5751.3	1842.5	557.6	568.5	565.5
50°	5225.6	1379.6	511.2	508.7	528.7
52.5°	4575.7	1020.5	463.5	484.0	521.4
55°	3855.1	790.0	411.0	479.8	511.8
57.5°	3164.1	640.3	380.8	467.7	486.4
60°	2515.4	533.5	377.8	445.4	458.0
62.5°	1943.2	457.4	376.0	434.5	439.3
65°	1433.3	404.9	365.1	438.1	414.6
67.5°	1044.0	388.0	356.7	432.1	382.0
70°	736.3	341.0	360.3	398.9	345.2
72.5°	499.7	284.8	400.7	351.8	302.3
75°	336.1	229.9	406.1	297.5	260.7
77.5°	218.5	191.3	345.2	243.2	216.0
80°	137.6	159.3	243.2	187.1	162.9
82.5°	89.3	122.5	153.9	132.2	112.2
85°	44.7	89.3	79.1	70.6	56.1
87.5°	26.6	54.3	42.2	30.8	28.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)