

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: P685356

Luminaire Tested: **8CZL-18-UNV-L950-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685356
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-18-UNV-L950-CD-U
Description: METALUX CRUZE LINEAR 8FT BASE MODEL @90 CRI and 5000K
Light Source: (1176) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

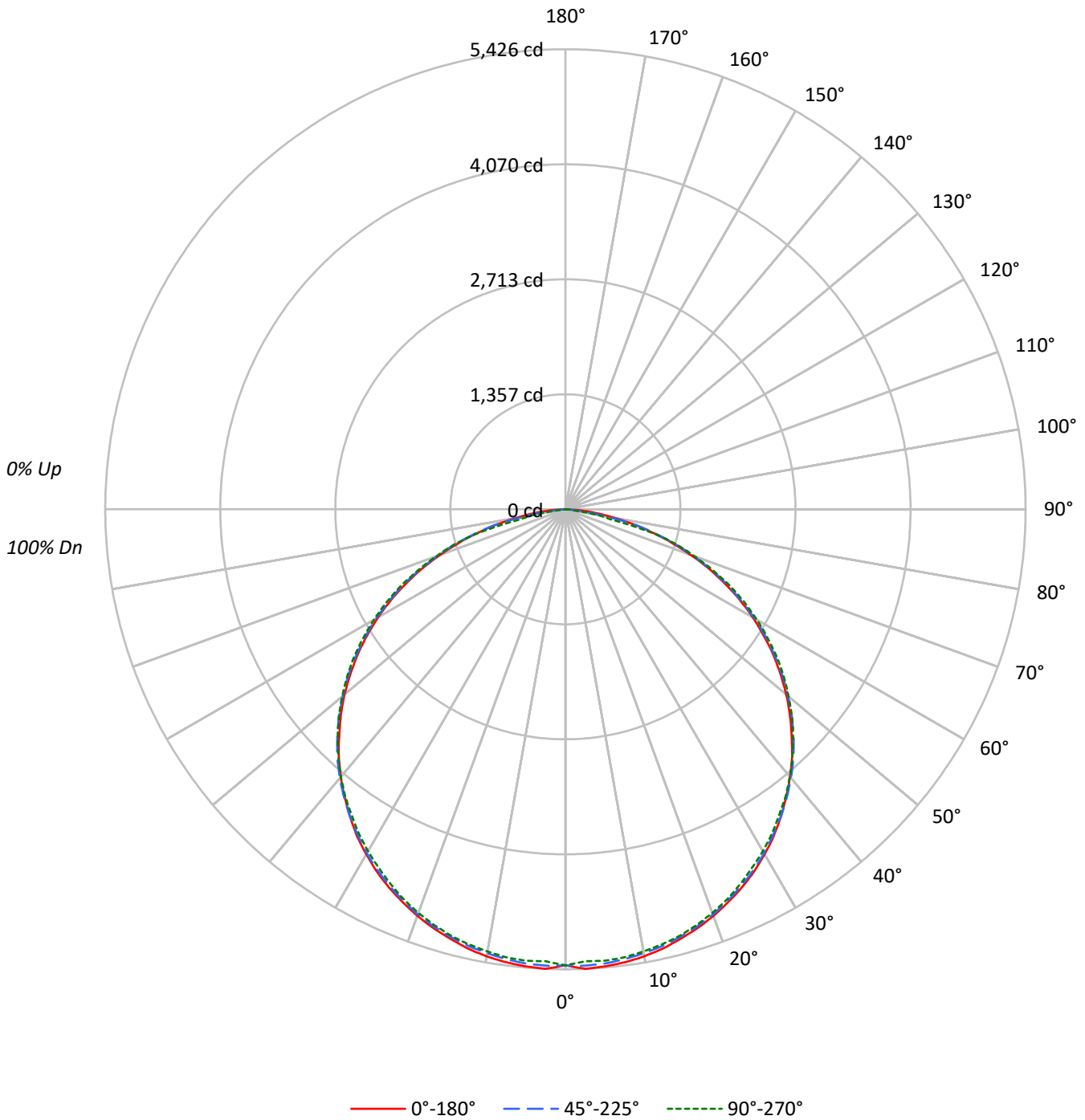
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15954.7 lumens
Efficiency: N/A
Efficacy: 146.4 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.29 / 1.41
Luminous Opening: Rectangular (W 0.83' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 109
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	102	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	86	86	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	72	72	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	61	61	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	52	52	52	50
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	45	45	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	39	39	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	35	35	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	31	31	31	29
9	56	42	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	28	28	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	25	25	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8684	8684	8684
5°	8770	8714	8661
10°	8778	8718	8681
15°	8766	8730	8703
20°	8768	8737	8703
25°	8770	8735	8691
30°	8759	8735	8680
35°	8727	8727	8666
40°	8686	8721	8679
45°	8613	8688	8669
50°	8540	8602	8631
55°	8426	8486	8569
60°	8242	8316	8417
65°	7935	8047	8185
70°	7421	7568	7638
75°	6677	6800	6453
80°	5579	4542	3536
85°	4161	1093	395



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.2	3.2
10°-20°	1471.1	9.2
20°-30°	2252.8	14.1
30°-40°	2758.2	17.3
40°-50°	2917.9	18.3
50°-60°	2690.7	16.9
60°-70°	2075.6	13.0
70°-80°	1108.5	6.9
80°-90°	169.6	1.1
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°	4234.1	26.5
0°-40°	6992.3	43.8
0°-60°	12600.9	79.0
0°-90°	15954.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15954.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5378	5378	5378	5378	5378	
5°	5411	5347	5377	5354	5344	515
15°	5244	5188	5223	5205	5206	1482
25°	4923	4872	4903	4867	4878	2269
35°	4428	4401	4428	4390	4396	2770
45°	3772	3770	3805	3778	3796	2912
55°	2993	2990	3015	3033	3044	2670
65°	2077	2077	2106	2123	2142	2051
75°	1070	1069	1090	1098	1034	1133
85°	225	161	59	25	21	276
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5378.4	5378.4	5378.4	5378.4	5378.4
2.5°	5425.9	5362.0	5388.2	5368.5	5335.8
5°	5411.2	5347.2	5376.7	5353.8	5344.0
7.5°	5388.2	5322.6	5352.2	5334.1	5330.8
10°	5353.8	5286.6	5317.7	5298.1	5294.8
12.5°	5307.9	5242.3	5276.7	5253.8	5257.1
15°	5244.0	5188.2	5222.7	5204.6	5206.3
17.5°	5180.0	5122.7	5158.7	5140.7	5142.3
20°	5103.0	5047.3	5085.0	5057.1	5065.3
22.5°	5016.1	4966.9	4999.7	4963.6	4980.0
25°	4922.7	4871.9	4903.0	4866.9	4878.4
27.5°	4816.1	4768.6	4799.7	4762.0	4766.9
30°	4698.1	4655.5	4685.0	4647.3	4655.5
32.5°	4571.9	4534.2	4557.1	4522.7	4534.2
35°	4427.6	4401.4	4427.6	4389.9	4396.5
37.5°	4276.8	4250.6	4286.6	4253.9	4265.3
40°	4121.1	4096.5	4137.5	4104.7	4117.8
42.5°	3955.5	3937.5	3978.5	3945.7	3962.1
45°	3771.9	3770.3	3804.7	3778.5	3796.5
47.5°	3590.0	3586.7	3621.1	3603.1	3624.4
50°	3399.8	3396.5	3424.4	3422.8	3435.9
52.5°	3196.5	3201.5	3227.7	3232.6	3247.4
55°	2993.3	2990.0	3014.6	3032.6	3044.1
57.5°	2772.0	2778.5	2798.2	2819.5	2827.7
60°	2552.3	2549.0	2575.3	2593.3	2606.4
62.5°	2319.5	2319.5	2340.8	2367.1	2380.2
65°	2076.9	2076.9	2106.4	2122.8	2142.5
67.5°	1829.4	1824.5	1850.7	1886.8	1883.5
70°	1572.0	1573.7	1603.2	1621.2	1617.9
72.5°	1316.3	1321.2	1352.4	1360.6	1368.8
75°	1070.4	1068.8	1090.1	1098.3	1034.4
77.5°	826.2	827.8	840.9	616.4	541.0
80°	600.0	603.2	488.5	380.3	380.3
82.5°	396.7	390.1	250.8	147.5	108.2
85°	224.6	160.6	59.0	24.6	21.3
87.5°	91.8	29.5	16.4	11.5	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)